



INSTITUTE FOR SOCIAL RESEARCH • SURVEY RESEARCH CENTER
PANEL STUDY OF INCOME DYNAMICS
UNIVERSITY OF MICHIGAN

Panel Study of Income Dynamics,
Transition into Adulthood Supplement 2023:
Generated Scale WIKI

The collection of data used in this study was supported by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development under grant number R01 HD103620.

Introduction

Since 2021, PSID has added or begun generating twenty-eight new Scales, Subscales, and Scale Scores in the Transition into Adulthood Supplement. Three more have been added for TAS-2023. Please see the [TAS Cross-Wave Variable Index](#) for a summary of these scales. This document along with expanded explanatory text in the codebooks is meant to help data users in their understanding of each scale, with specific assistance including the method used to calculate the scale, the components used in each scale, and the source of the scale, if applicable. Finally, we are including the SAS syntax used to produce each scale, with the exception of the food security scales (see below). Data users are encouraged to use their own methods, if desired. Please contact us at psidhelp@umich.edu if you have any questions or suggestions about this document.

Scale generation method

The coding techniques included are meant as proof of concept and as an example for how to generate specific scales. Analysts needs may vary by technical skill or application and should be adapted for their specific context and sample.

Suggested citation of the TAS-2023 data:

Transition into Adulthood Supplement to the Panel Study of Income Dynamics, public use dataset [restricted use data, if appropriate]. Produced and distributed by the Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI (year data were downloaded).

Suggested acknowledgement of the TAS-2023 data:

The collection of data used in this study was supported by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development under grant number P01HD087155.

PSID-TRANSITION INTO ADULTHOOD SCALES

LANGUISHING AND FLOURISHING

Languishing and Flourishing Scale (CONTFL)	1
Emotional Well-Being (EWB) Subscale	2
B18a Frequency of Happiness in Last Month	4
B18b Frequency of Interest in Life in Last Month	6
B18c Frequency of Feeling Satisfied in Last Month	8
Social Well-Being (SWB) Subscale	10
B18d Frequency of Feeling Something to Contribute to Society	12
B18e Frequency of Feeling Belonging to the Community	14
B18f Frequency of Feeling Society Getting Better	16
B18g Frequency of Feeling People Basically Good	18
B18h Frequency of Feeling Way Society Works Makes Sense	20
Psychological (PWB) Well-Being Subscale	22
B18j Frequency of Feeling Good at Managing Daily Responsibility	24
B18k Frequency of Feeling Has Trusting Relationships with Others	26
B18l Frequency of Feeling Challenged to Grow	28
B18m Frequency of Feeling Confident of Own Ideas	30
B18n Frequency of Feeling Liked Own Personality	32
B18o Frequency of Feeling Life Had Direction	34
Languishing and Flourishing Scale Score	36

SOCIAL ANXIETY

Social Anxiety Scale (SOCANX)	37
B26a How Often Nervous Meeting Others	38
B26b How Often Feel Shy	39
B26c How Often Feel Self-Conscious	40
B26d How Often Feel Nervous Performing	41

ROSENBERG SELF-ESTEEM

Rosenberg Self-Esteem Scale (ROSENB)	42
B27a Feel Like Person Of Worth	44
B27b Feel Has Number Of Good Qualities	46
B27c Inclined To Feel Like Failure	48
B27d Able To Do Things As Well As Other	50
B27e Feel Not Much To Be Proud Of	52

B27f	Take Positive Attitude Toward Self	54
B27g	Satisfied With Self	56
B27h	Wish Had More Respect For Self	58
B27j	Feel Useless At Times	60
B27k	Think Self No Good At All	62
Rosenberg Self-Esteem Scale Score		64

KESSLER 6

Non-Specific Psychological Distress-Kessler 6 Scale (PSYCHDIST)		65
H83a	How Often Felt Nervous in Past Month	66
H83b	How Often Felt Hopeless in Past Month	67
H83c	How Often Felt Restless in Past Month	68
H83d	How Often Felt Everything an Effort in Past Month	69
H83e	How Often Felt Too Sad in Past Month	70
H83f	How Often Felt Worthless in Past Month	71
Non-Specific Psychological Distress-Kessler 6 Scale Score		72

EVERYDAY DISCRIMINATION

Everyday Discrimination Scale (DISCRIM)		73
K1a	How Often Treated with Less Courtesy	74
K1b	How Often Receive Poorer Service	75
K1c	How Often Others Treat as Stupid	76
K1d	How Often Others Act Afraid	77
K1e	How Often Others Treat as Dishonest	78
K1f	How Often Others Act Superior	79

RISKY BEHAVIOR

Risky Behavior Scale (Risky)		80
K9a	How Often Did Something Dangerous	81
K9b	How Often Damaged Public Property	82
K9c	How Often Got into Physical Fight	83
K9d	How Often Drove When Drunk or High	84
K9e	How Often Rode with Drunk Driver	85

SENSATION SEEKING

Sensations Seeking Scale		86
K9a	How Often Did Something Dangerous	87
K9a2	How Often Did Something Exciting	88

TECHNOLOGY USE

Technology Use Scale		89
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A23a	How Often Play Games on Computer	90
A23b	How Often Send/Receive Email	91
A23c	How Often Send/Receive Texts	92
A23d	How Often Interact on Social Media.....	93
A23e	How Often Follow Interests	94

FINANCIAL RESPONSIBILITY

Financial Responsibilities Scale (FINRESP)	95	
B17a	How Much Responsibility for Earning Own Living	96
B17b	How Much Responsibility for Paying Own Rent	98
B17c	How Much Responsibility for Paying Own Bills	100
B17d	How much Responsibility for Managing Own Money	102

GENERALIZED ANXIETY DISORDER SCREENING (GAD7)

Gen Anxiety Disorder Scale (GAD7)	104	
B23a	Feel Nervous, Anxious, On Edge	105
B23b	Unable To Stop/Control Worry	106
B23c	Worry Too Much	107
B23d	Trouble Relaxing	108
B23e	Restless, Hard To Sit Still	109
B23f	Easily Annoyed, Irritable	110
B23g	Feel Afraid Something Awful Happen	111
Gen Anxiety Disorder Scale Score (GAD7)	112	

THE PATIENT HEALTH QUESTIONNAIRE (PHQ) DEPRESSION SCREENER

PHQ-9 Depression Screener Scale	113	
B20a	Little Interest Doing Things	114
B20b	Feeling Down/Depressed/Hopeless	115
B20c	Trouble Falling/Staying Asleep	116
B20d	Feeling Tired, Little Energy	117
B20e	Poor Appetite, Overeating	118
B20f	Feeling Failure, Let Self Down.....	119
B20g	Trouble Concentrating	120
B20h	Move/Speak Slowly Or Fidgety	121
B20j	Thinking Of Death Or Self Harm	122
PHQ-9 Depression Screener Scale Score	123	

PERSONALITY BIG 5

Big 5-Conscientiousness Scale	124	
B19a	Thorough Worker	126

B19g	Somewhat Lazy	128
B19l	Effective/Efficient Complete Task	130

PERSONALITY BIG 5

Big 5-Agreeableness Scale	132	
B19c	Sometimes Rude To Others	134
B19f	Forgiving	136
B19n	Considerate/Kind To Others	138

PERSONALITY BIG 5

Big 5-Neuroticism Scale	140	
B19e	Worrier	142
B19k	Nervous	144
B19p	Relaxed, Able To Deal W/Stress	146

PERSONALITY BIG 5

Big 5- Extraversion Scale	148	
B19b	Communicative, Talkative	150
B19h	Outgoing, Sociable	152
B19m	Reserved	154

PERSONALITY BIG 5

Big 5- Openness Scale	156	
B19d	Original, Come Up W/New Ideas	158
B19j	Value Artistic, Aesthetic Exper	160
B19o	Imaginative	162
B19q	Eager For Knowledg	164

ADVERSE CHILDHOOD EXPERIENCES (ACEs)

Childhood Aces Scale – Parent 1	166	
Household Challenges Subscale – Parent #1	168	
H35	Wtr Parent Had Anxiety - Parent #1	170
H36	Wtr Parent Had Depress - Parent #1	172
H37	Wtr Parent Had Al Prob - Parent #1.....	174
H38	Wtr Parent Had Drug Prob - Parent #1	176
H39	Wtr Parent Had Otr Cond - Parent #1.....	178
H40	Wtr Time Served In Jail - Parent #1.....	180
H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2	182
H43	How Often Parents Insult Each Other - Parent #1 and Parent #2	184
H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2.....	186
H45	Parents Threw Things at Each Other - Parent #1 and Parent #2	188
H46	Parents Slapped Each Other - Parent #1 and Parent #2	190

H47	Parents Physically Harm Each Other - Parent #1 and Parent #2	192
Abuse Subscale – Parent #1		194
H48	How Often Parent Insult R - Parent #1	196
H49	How Often Parent Pushed R - Parent #1.....	198
H50	How Often Threw Things - Parent #1.....	200
H51	How Often Slapped R - Parent #1	202
H52	How Often Physically Harm - Parent #1.....	204
Neglect Subscale – Parent #1		206
H53	How Close With Parent #1	209
H54	How Much Affection Given - Parent #1	211
H55	How Much Parenting Effort - Parent #1	213
H56	How Often Someone Care/Protect R - Parent #1 and Parent #2.....	215
H57	How Often Someone Take To Doctor - Parent #1 and Parent #2.....	217
H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2	219
H59	How Often No Safe Place To Stay - Parent #1 and Parent #2.....	221

ADVERSE CHILDHOOD EXPERIENCES (ACEs)

Childhood Aces Scale – Parent 2		223
Household Challenges Subscale – Parent #2.....		225
H35	Wtr Parent Had Anxiety - Parent #2	227
H36	Wtr Parent Had Depress - Parent #2	229
H37	Wtr Parent Had Al Prob - Parent #2.....	231
H38	Wtr Parent Had Drug Prob - Parent #2	233
H39	Wtr Parent Had Otr Cond - Parent #2.....	235
H40	Wtr Time Served In Jail - Parent #2.....	237
H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2.....	239
H43	How Often Parents Insult Each Other - Parent #1 and Parent #2.....	241
H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2.....	243
H45	Parents Threw Things at Each Other - Parent #1 and Parent #2	245
H46	Parents Slapped Each Other - Parent #1 and Parent #2	247
H47	Parents Physically Harm Each Other - Parent #1 and Parent #2	249
Abuse Subscale – Parent #2.....		251
H48	How Often Parent Insult R - Parent #2	253
H49	How Often Parent Pushed R - Parent #2.....	255
H50	How Often Threw Things - Parent #2.....	257
H51	How Often Slapped R - Parent #2	259
H52	How Often Physically Harm - Parent #2.....	261
Neglect Subscale – Parent #2		263

H53	How Close With Parent #2	266
H54	How Much Affection Given - Parent #2	268
H55	How Much Parenting Effort - Parent #2	270
H56	How Often Someone Care/Protect R - Parent #1 and Parent #2.....	272
H57	How Often Someone Take To Doctor - Parent #1 and Parent #2.....	274
H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2	276
H59	How Often No Safe Place To Stay - Parent #1 and Parent #2.....	278

LONELINESS

Loneliness Scale	280	
K28	How Often Lack Companionship.....	281
K29	How Often Feel Left Out	282
K30	How Often Feel Isolated	283

TA232323 Scale: Languishing/Flourishing (CONTFL)

The Languishing and Flourishing Scale includes 14 items that are scored 1-6 where higher scores are indicative of higher levels of flourishing. The Scale ranges from 0-18 and is the sum of these 3 Subscale variables:

- TA232320 Emotional Well-being
- TA232321 Social Well-being
- TA232322 Psychological Well-being

All items must be non-missing for the scale to be constructed.

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002).

The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222. <https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

```
*--Languishing and Flourishing--*
*-- put all valid subscales together for total --*;
  if ewb='9' or swb='9' or pwb='9' then contfln=99;
  else contfln=ewb+swb+pwb;

  contfl=put(contfln, z2.);
```

TA232320 Subscale: Lang/Flour Emotional Wellbeing (EWB)

This is a subscale of the Languishing and Flourishing Scale (TA232323). It is comprised of these 3 items that are scored 1-6 where higher scores are indicative of higher levels of flourishing. The subscale is the rounded raw average of all non-missing responses to the following items:

- TA230061 B18a Frequency of Happiness in Last Mont
- TA230062 B18b Frequency of Interest in Life in Last Month
- TA230063 B18c Frequency of Feeling Satisfied in Last Month

All items must be non-missing for the subscale to be constructed.

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002).

The Mental Health Continuum: From Languishing to Flourishing in Life. Journal of Health and Social Behavior, 43(2), 207-222. <https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. Adolescent & Family Health, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;

EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;
```

numEvar=0;

do over Ewbvar;

if Ewbvar ne '9' then numEvar=numEvar+1;

if Ewbvar='9' then Ewbvarsc=0;

else Ewbvarsc=Ewbvar;

if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;

if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;

end;

numSvar=0;

do over Swbvar;

if Swbvar ne '9' then numSvar=numSvar+1;

if Swbvar='9' then Swbvarsc=0;

else Swbvarsc=Swbvar;

if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;

if Swbvar in ('1','2') then Swblg=1; else Swblg=0;

end;

numPvar=0;

do over Pwbvar;

if Pwbvar ne '9' then numPvar=numPvar+1;

if Pwbvar='9' then Pwbvarsc=0;

else Pwbvarsc=Pwbvar;

```
    if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
    if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate  --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);
```

TA230061 Frequency of Happiness in Last Month

[TOC](#)

B18a. These next questions are about how you have been feeling in the last month. In the last month, how often did you feel happy? Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?

This variable is a component of the Emotional Well-Being Subscale (TA232320) of the Languishing and Flourishing Scale (TA232323). It includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;

```
EWB='0'; SWB='0'; PWB='0'; contfl='00';
```

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc  B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl     B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg     B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar    B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc  B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
```

```

array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg     B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230062 Frequency of Interest in Life in Last Month

B18b. (In the last month, how often did you feel...) Interested in life? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Emotional Well-Being Subscale (TA232320) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230063 Frequency of Feeling Satisfied in Last Month

B18c. (In the last month, how often did you feel...) Satisfied? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Emotional Well-Being Subscale (TA232320) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA232321 Subscale: Lang/Flour Social Wellbeing (SWB)

This is a subscale of the Languishing and Flourishing Scale (TA232323). It is comprised of these 5 items that are scored 1-6 where higher scores are indicative of higher levels of flourishing. The subscale is the rounded raw average of all non-missing responses to the following items:

- TA230064 B18d Frequency of Feeling Something to Contribute to Society
- TA230065 B18e Frequency of Feeling Belonging to the Community
- TA230066 B18f Frequency of Feeling Society Getting Better
- TA230067 B18g Frequency of Feeling People Basically Good
- TA230068 B18h Frequency of Feeling Way Society Works Makes Sense

All items must be non-missing for the subscale to be constructed.

The origin of the scale is from MIDUS; Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;
 EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d   B18e   B18f   B18g   B18h;
array Swbvarsc  B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl     B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg     B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j   B18k   B18l   B18m   B18n   B18o;
array Pwbvarsc  B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl     B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg     B18jlg B18klg B18llg B18mlg B18nlg B18olg;
```

```
numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
```

```

    if Pwbvar ne '9' then numPvar=numPvar+1;
    if Pwbvar='9' then Pwbvarsc=0;
    else Pwbvarsc=Pwbvar;
    if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
    if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230064 Frequency of Feeling Something to Contribute to Society

B18d. (In the last month, how often did you feel...) That you had something important to contribute to society? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Social Well-Being Subscale (TA232321) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
Ewb='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230065 Frequency of Feeling Belonging to the Community

B18e. (In the last month, how often did you feel...) That you belonged to a community like a social group, your school, or your neighborhood? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Social Well-Being Subscale (TA232321) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc  B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl     B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg     B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar    B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc  B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
```

```

array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg     B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

B18f. (In the last month, how often did you feel...) That our society is becoming a better place? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Social Well-Being Subscale (TA232321) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

- TA230061 B18a Frequency of Happiness in Last Month
- TA230062 B18b Frequency of Interest in Life in Last Month
- TA230063 B18c Frequency of Feeling Satisfied in Last Month
- TA230064 B18d Frequency of Feeling Something to Contribute to Society
- TA230065 B18e Frequency of Feeling Belonging to the Community
- TA230066 B18f Frequency of Feeling Society Getting Better
- TA230067 B18g Frequency of Feeling People Basically Good
- TA230068 B18h Frequency of Feeling Way Society Works Makes Sense
- TA230069 B18j Frequency of Feeling Good at Managing Daily Responsibility
- TA230070 B18k Frequency of Feeling Has Trusting Relationships with Others
- TA230071 B18l Frequency of Feeling Challenged to Grow
- TA230072 B18m Frequency of Feeling Confident of Own Ideas
- TA230073 B18n Frequency of Feeling Liked Own Personality
- TA230074 B18o Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

he origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
 EWB='0'; SWB='0'; PWB='0'; contfl='00';

```

array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
    
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230067 Frequency of Feeling People Basically Good

B18g. (In the last month, how often did you feel...) That people are basically good? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Social Well-Being Subscale (TA232321) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

he origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
Ewb='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

B18h. (In the last month, how often did you feel...) That the way our society works made sense to you? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Social Well-Being Subscale (TA232321) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

- TA230061 B18a Frequency of Happiness in Last Month
- TA230062 B18b Frequency of Interest in Life in Last Month
- TA230063 B18c Frequency of Feeling Satisfied in Last Month
- TA230064 B18d Frequency of Feeling Something to Contribute to Society
- TA230065 B18e Frequency of Feeling Belonging to the Community
- TA230066 B18f Frequency of Feeling Society Getting Better
- TA230067 B18g Frequency of Feeling People Basically Good
- TA230068 B18h Frequency of Feeling Way Society Works Makes Sense
- TA230069 B18j Frequency of Feeling Good at Managing Daily Responsibility
- TA230070 B18k Frequency of Feeling Has Trusting Relationships with Others
- TA230071 B18l Frequency of Feeling Challenged to Grow
- TA230072 B18m Frequency of Feeling Confident of Own Ideas
- TA230073 B18n Frequency of Feeling Liked Own Personality
- TA230074 B18o Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
 EWB='0'; SWB='0'; PWB='0'; contfl='00';

```

array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
    
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA232322 Subscale: Lang/Flour Psychological Wellbeing (PWB)

This is a subscale of the Languishing and Flourishing Scale (TA232323). It is comprised of these 6 items that are scored 1-6 where higher scores are indicative of higher levels of flourishing. The subscale is the rounded raw average of all non-missing responses to the following items:

- TA230069 B18j Frequency of Feeling Good at Managing Daily Responsibility
- TA230070 B18k Frequency of Feeling Has Trusting Relationships with Others
- TA230071 B18l Frequency of Feeling Challenged to Grow
- TA230072 B18m Frequency of Feeling Confident of Own Ideas
- TA230073 B18n Frequency of Feeling Liked Own Personality
- TA230074 B18o Frequency of Feeling Life Had Direction

All items must be non-missing for the subscale to be constructed.

The origin of the scale is from MIDUS; Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;
 EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d   B18e   B18f   B18g   B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j   B18k   B18l   B18m   B18n   B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;
```

```
numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
```

```

do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230069 Frequency of Feeling Good at Managing Daily Responsibility

[TOC](#)

B18j. (In the last month, how often did you feel...) Good at managing the responsibilities of your daily life? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Psychological Well-Being Subscale (TA232322) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc  B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl     B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg     B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar    B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc  B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl     B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230070 Frequency of Feeling Has Trusting Relationships with Others

[TOC](#)

B18k. (In the last month, how often did you feel...) That you have warm and trusting relationships with other people? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Psychological Well-Being Subscale (TA232322) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc  B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl     B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg     B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar    B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc  B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl     B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

B18l. (In the last month, how often did you feel...) That you have experiences that challenged you to grow or become a better person? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Psychological Well-Being Subscale (TA232322) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

- TA230061 B18a Frequency of Happiness in Last Month
- TA230062 B18b Frequency of Interest in Life in Last Month
- TA230063 B18c Frequency of Feeling Satisfied in Last Month
- TA230064 B18d Frequency of Feeling Something to Contribute to Society
- TA230065 B18e Frequency of Feeling Belonging to the Community
- TA230066 B18f Frequency of Feeling Society Getting Better
- TA230067 B18g Frequency of Feeling People Basically Good
- TA230068 B18h Frequency of Feeling Way Society Works Makes Sense
- TA230069 B18j Frequency of Feeling Good at Managing Daily Responsibility
- TA230070 B18k Frequency of Feeling Has Trusting Relationships with Others
- TA230071 B18l Frequency of Feeling Challenged to Grow
- TA230072 B18m Frequency of Feeling Confident of Own Ideas
- TA230073 B18n Frequency of Feeling Liked Own Personality
- TA230074 B18o Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;

EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc  B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl     B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg     B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar    B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc  B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
```

```

array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg     B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230072 Frequency of Feeling Confident of Own Ideas

[TOC](#)

B18m. (In the last month, how often did you feel...) Confident to think or express your own ideas and opinions? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Psychological Well-Being Subscale (TA232322) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230073 Frequency of Feeling Liked Own Personality

B18n. (In the last month, how often did you feel...) That you liked your personality? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Psychological Well-Being Subscale (TA232322) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

--Per previous scales code, each must have all items reported to calc subscale-;
EWB='0'; SWB='0'; PWB='0'; contfl='00';

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
```

```

array Pwblg      B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA230074 Frequency of Feeling Life Had Direction

B18o. (In the last month, how often did you feel...) That your life had a direction or purpose? (Would you say never, once or twice, about once a week, 2 or 3 times a week, almost every day, or every day?)

This variable is a component of the Psychological Well-Being Subscale (TA232322) of the Languishing and Flourishing Scale (TA232323). The full scale includes these 14 items where higher scores are indicative of higher levels of flourishing. All items must have a valid response for the scale to be constructed.

TA230061	B18a	Frequency of Happiness in Last Month
TA230062	B18b	Frequency of Interest in Life in Last Month
TA230063	B18c	Frequency of Feeling Satisfied in Last Month
TA230064	B18d	Frequency of Feeling Something to Contribute to Society
TA230065	B18e	Frequency of Feeling Belonging to the Community
TA230066	B18f	Frequency of Feeling Society Getting Better
TA230067	B18g	Frequency of Feeling People Basically Good
TA230068	B18h	Frequency of Feeling Way Society Works Makes Sense
TA230069	B18j	Frequency of Feeling Good at Managing Daily Responsibility
TA230070	B18k	Frequency of Feeling Has Trusting Relationships with Others
TA230071	B18l	Frequency of Feeling Challenged to Grow
TA230072	B18m	Frequency of Feeling Confident of Own Ideas
TA230073	B18n	Frequency of Feeling Liked Own Personality
TA230074	B18o	Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The origin of the scale is from MIDUS, Languishing and Flourishing: Corey L. M. Keyes. (2002). The Mental Health Continuum: From Languishing to Flourishing in Life. *Journal of Health and Social Behavior*, 43(2), 207-222.

<https://doi.org/10.2307/3090197>

Keyes, C. L. M. (2006). The Subjective Well-Being of America's Youth: Toward a Comprehensive Assessment. *Adolescent & Family Health*, 4(1), 3-11.

--Languishing and Flourishing--

-Per previous scales code, each must have all items reported to calc subscale-;

```
EWB='0'; SWB='0'; PWB='0'; contfl='00';
```

```
array Ewbvar      B18a  B18b  B18c  ;
array Ewbvarsc   B18asc B18bsc B18csc;
array Ewbfl      B18afl B18bfl B18cfl;
array Ewblg      B18alg B18blg B18clg;
array Swbvar     B18d  B18e  B18f  B18g  B18h;
array Swbvarsc   B18dsc B18esc B18fsc B18gsc B18hsc;
array Swbfl      B18dfl B18efl B18ffl B18gfl B18hfl;
array Swblg      B18dlg B18elg B18flg B18glg B18hlg;
array Pwbvar     B18j  B18k  B18l  B18m  B18n  B18o;
array Pwbvarsc   B18jsc B18ksc B18lsc B18msc B18nsc B18osc;
```

```

array Pwbfl      B18jfl B18kfl B18lfl B18mfl B18nfl B18ofl;
array Pwblg     B18jlg B18klg B18llg B18mlg B18nlg B18olg;

numEvar=0;
do over Ewbvar;
  if Ewbvar ne '9' then numEvar=numEvar+1;
  if Ewbvar='9' then Ewbvarsc=0;
  else Ewbvarsc=Ewbvar;
  if Ewbvar in ('5','6') then Ewbfl=1; else Ewbfl=0;
  if Ewbvar in ('1','2') then Ewblg=1; else Ewblg=0;
end;
numSvar=0;
do over Swbvar;
  if Swbvar ne '9' then numSvar=numSvar+1;
  if Swbvar='9' then Swbvarsc=0;
  else Swbvarsc=Swbvar;
  if Swbvar in ('5','6') then Swbfl=1; else Swbfl=0;
  if Swbvar in ('1','2') then Swblg=1; else Swblg=0;
end;
numPvar=0;
do over Pwbvar;
  if Pwbvar ne '9' then numPvar=numPvar+1;
  if Pwbvar='9' then Pwbvarsc=0;
  else Pwbvarsc=Pwbvar;
  if Pwbvar in ('5','6') then Pwbfl=1; else Pwbfl=0;
  if Pwbvar in ('1','2') then Pwblg=1; else Pwblg=0;
end;

*-- need all items in subscale to be valid to calculate --*;
if numEvar lt 3 then ewb='9';
else ewb=round(mean(B18asc,B18bsc,B18csc),1);
if numSvar lt 5 then swb='9';
else swb=round(mean(B18dsc,B18esc,B18fsc,B18gsc,B18hsc),1);
if numPvar lt 6 then pwb='9';
else pwb=round(mean(B18jsc,B18ksc,B18lsc,B18msc,B18nsc,B18osc),1);

```

TA232324 Scale Score: Languishing/Flourishing

This categorical variable is composed of these 14 items, representing Hedonic and Eudemonic Well-Being:

Hedonic Well-Being:

- TA230061 B18a Frequency of Happiness in Last Month
- TA230062 B18b Frequency of Interest in Life in Last Month
- TA230063 B18c Frequency of Feeling Satisfied in Last Month

Eudemonic Well-Being:

- TA230064 B18d Frequency of Feeling Something to Contribute to Society
- TA230065 B18e Frequency of Feeling Belonging to the Community
- TA230066 B18f Frequency of Feeling Society Getting Better
- TA230067 B18g Frequency of Feeling People Basically Good
- TA230068 B18h Frequency of Feeling Way Society Works Makes Sense
- TA230069 B18j Frequency of Feeling Good at Managing Daily Responsibility
- TA230070 B18k Frequency of Feeling Has Trusting Relationships with Others
- TA230071 B18l Frequency of Feeling Challenged to Grow
- TA230072 B18m Frequency of Feeling Confident of Own Ideas
- TA230073 B18n Frequency of Feeling Liked Own Personality
- TA230074 B18o Frequency of Feeling Life Had Direction

Non-missing values are coded as:

- 1 Never
- 2 Once or twice
- 3 About once a week
- 4 Two or three times a week
- 5 Almost every day
- 6 Every day

The score is coded as:

- 1 Flourishing -at least 1 Hedonic item and 6 Eudemonic items="almost every day" or "every day"
- 2 Languishing - at least 1 Hedonic item and 6 Eudemonic items="never" or "once or twice"
- 3 Moderate Mental Health: those who are neither Flourishing or Languishing

All items must be non-missing for the scale to be constructed.

The sources for this score are: <https://www150.statcan.gc.ca/n1/pub/82-003-x/2014009/article/14086-eng.htm>
<https://www.hsph.harvard.edu/health-happiness/mental-health-continuum-short-form/>

```
*--Languishing and Flourishing--*
flo1=B18af1+B18bf1+B18cf1;
flo2=B18df1+B18ef1+B18ff1+B18gf1+B18hf1+B18jf1+B18kf1+B18lf1+B18mf1+B18nf1+B18of1;
lang1=B18alg+B18blg+B18clg;
lang2=B18dlg+B18elg+B18flg+B18glg+B18hlg+B18jlg+B18klg+B18llg+B18mlg+B18nlg+B18olg;

if contfl='99' then contflcat='9';
else if flo1 ge 1 and flo2 ge 6 then contflcat='1';
else if lang1 ge 1 and lang2 ge 6 then contflcat='2';
else contflcat='3';
```

TA232325 Scale: Social Anxiety (SOCANX)

This scale is the average of all non-missing responses to these 4 items. The items are each scored 1-5 where higher scores are indicative of more risk taking.

TA230093 B26a How Often Nervous Meeting Others
 TA230094 B26b How Often Feel Shy
 TA230095 B26c How Often Feel Self-Conscious
 TA230096 B26d How Often Feel Nervous Performing

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing values are coded as:

- 1 Never
- 2 Rarely
- 3 Sometimes
- 4 Often
- 5 Almost always or always

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The source of this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*---- Social Anxiety ----*;
socanx='0';

array b6var B26a B26b B26c B26d;
array b6varsc B26asc B26bsc B26csc B26dsc;

numb6var=0;
do over b6var;
  if b6var ne '9' then numb6var=numb6var+1;
  if b6var='9' then b6varsc=0;
  else b6varsc=b6var;
end;

if numb6var lt 3 then socanx='9';
else if numb6var=3 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/3),1);
else if numb6var=4 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/4),1);
run;
```

B26a. How often do you feel nervous when meeting new people? Would you say never, rarely, sometimes, often, almost always or always?

This variable is a component of the Social Anxiety Scale (TA232325). This Scale is the average of all non-missing responses to these 4 items. The items are each scored 1-5 where higher scores are indicative of more risk taking.

TA230093	B26a	How Often Nervous Meeting Others
TA230094	B26b	How Often Feel Shy
TA230095	B26c	How Often Feel Self-Conscious
TA230096	B26d	How Often Feel Nervous Performing

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing values are coded as:

- 1 Never
- 2 Rarely
- 3 Sometimes
- 4 Often
- 5 Almost always or always

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The source of this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*---- Social Anxiety ----*;
socanx='0';

array b6var B26a B26b B26c B26d;
array b6varsc B26asc B26bsc B26csc B26dsc;

numb6var=0;
do over b6var;
  if b6var ne '9' then numb6var=numb6var+1;
  if b6var='9' then b6varsc=0;
  else b6varsc=b6var;
end;

if numb6var lt 3 then socanx='9';
else if numb6var=3 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/3),1);
else if numb6var=4 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/4),1);
run;
```

B26b. How often do you feel nervous when meeting new people? Would you say never, rarely, sometimes, often, almost always or always?

This variable is a component of the Social Anxiety Scale (TA232325). This Scale is the average of all non-missing responses to these 4 items. The items are each scored 1-5 where higher scores are indicative of more risk taking.

TA230093	B26a	How Often Nervous Meeting Others
TA230094	B26b	How Often Feel Shy
TA230095	B26c	How Often Feel Self-Conscious
TA230096	B26d	How Often Feel Nervous Performing

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing values are coded as:

- 1 Never
- 2 Rarely
- 3 Sometimes
- 4 Often
- 5 Almost always or always

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The source of this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*---- Social Anxiety ----*;
socanx='0';

array b6var B26a B26b B26c B26d;
array b6varsc B26asc B26bsc B26csc B26dsc;

numb6var=0;
do over b6var;
  if b6var ne '9' then numb6var=numb6var+1;
  if b6var='9' then b6varsc=0;
  else b6varsc=b6var;
end;

if numb6var lt 3 then socanx='9';
else if numb6var=3 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/3),1);
else if numb6var=4 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/4),1);
run;
```

B26c. How often do you feel nervous when meeting new people? Would you say never, rarely, sometimes, often, almost always or always?

This variable is a component of the Social Anxiety Scale (TA232325). This Scale is the average of all non-missing responses to these 4 items. The items are each scored 1-5 where higher scores are indicative of more risk taking.

TA230093	B26a	How Often Nervous Meeting Others
TA230094	B26b	How Often Feel Shy
TA230095	B26c	How Often Feel Self-Conscious
TA230096	B26d	How Often Feel Nervous Performing

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing values are coded as:

- 1 Never
- 2 Rarely
- 3 Sometimes
- 4 Often
- 5 Almost always or always

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The source of this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*---- Social Anxiety  ----*;
socanx='0';

array b6var    B26a    B26b    B26c    B26d;
array b6varsc  B26asc  B26bsc  B26csc  B26dsc;

numb6var=0;
do over b6var;
  if b6var ne '9' then numb6var=numb6var+1;
  if b6var='9' then b6varsc=0;
  else b6varsc=b6var;
end;

if numb6var lt 3 then socanx='9';
else if numb6var=3 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/3),1);
else if numb6var=4 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/4),1);
run;
```

B26d. How often do you feel nervous when meeting new people? Would you say never, rarely, sometimes, often, almost always or always?

This variable is a component of the Social Anxiety Scale (TA232325). This Scale is the average of all non-missing responses to these 4 items. The items are each scored 1-5 where higher scores are indicative of more risk taking.

TA230093	B26a	How Often Nervous Meeting Others
TA230094	B26b	How Often Feel Shy
TA230095	B26c	How Often Feel Self-Conscious
TA230096	B26d	How Often Feel Nervous Performing

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing values are coded as:

- 1 Never
- 2 Rarely
- 3 Sometimes
- 4 Often
- 5 Almost always or always

This scale may be based on fewer than the above 4 items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The source of this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*---- Social Anxiety  ----*;
socanx='0';

array b6var    B26a    B26b    B26c    B26d;
array b6varsc B26asc B26bsc B26csc B26dsc;

numb6var=0;
do over b6var;
  if b6var ne '9' then numb6var=numb6var+1;
  if b6var='9' then b6varsc=0;
  else b6varsc=b6var;
end;

if numb6var lt 3 then socanx='9';
else if numb6var=3 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/3),1);
else if numb6var=4 then socanx = round(((B26asc+B26bsc+B26csc+B26dsc)/4),1);
run;
```

TA232326 Scale: Rosenberg Self-Esteem (ROSENB)

This scale is the sum of non-missing values of these 10 items, where higher scores are indicative of high self-esteem.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```

*--Rosenberg Self-Esteem--*
rosenb='97';  rosenbcat='0';

if b27ackpt='5' then do;
  array b5var      B27a  B27b  B27d  B27f  B27g;
  array b5varsc    B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar     B27c  B27e  B27h  B27j  B27k;
  array b5Rvarsc   B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
  end;

  *--- reverse coding ---*;

```

```

numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if '00' le rosenb le '14' then rosenbcats='1';
  else if '15' le rosenb le '30' then rosenbcats='2';
  else if rosenb='99' then rosenbcats='9';
end;

```

TA230098 Feel Like Person Of Worth

B27a. Next, please tell me your level of agreement with the following statements. I feel that I'm a person of worth, at least on an equal basis with others. Would you say you strongly disagree, disagree, agree, or strongly agree?

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcats='1';
  else if '15' le rosenb le '30' then rosenbcats='2';
  else if      rosenb='99'      then rosenbcats='9';
end;

```

TA230099 Feel Has Number Of Good Qualities

B27b. (Please tell me your level of agreement with the following statements.) I feel that I have a number of good qualities. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230100 Inclined To Feel Like Failure

B27c. (Please tell me your level of agreement with the following statements.) I feel that I have a number of good qualities. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var      B27a  B27b  B27d  B27f  B27g;
  array b5varsc   B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar    B27c  B27e  B27h  B27j  B27k;
  array b5Rvarsc  B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230101 Able To Do Things As Well As Other

B27d. (Please tell me your level of agreement with the following statements.) I am able to do things as well as most other people. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230102 Feel Not Much To Be Proud Of

B27e. (Please tell me your level of agreement with the following statements.) I feel I do not have much to be proud of. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230103 Take Positive Attitude Toward Self

B27f. (Please tell me your level of agreement with the following statements.) I take a positive attitude toward myself. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230104 Satisfied With Self

B27g. (Please tell me your level of agreement with the following statements.) On the whole, I am satisfied with myself. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var      B27a  B27b  B27d  B27f  B27g;
  array b5varsc    B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar     B27c  B27e  B27h  B27j  B27k;
  array b5Rvarsc   B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
if      '00' le rosenb le '14' then rosenbcats='1';
else if '15' le rosenb le '30' then rosenbcats='2';
else if      rosenb='99'      then rosenbcats='9';
end;

```

TA230105 Wish Had More Respect For Self

B27h. (Please tell me your level of agreement with the following statements.) I wish I could have more respect for myself. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230106 Feel Useless At Times

B27j. (Please tell me your level of agreement with the following statements.) I certainly feel useless at times. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcats='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
```

```

    else b5varsc=b5var-1;
end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA230107 Think Self No Good At All

B27k. (Please tell me your level of agreement with the following statements.) At times I think I am no good at all. (Would you say you strongly disagree, disagree, agree, or strongly agree?)

This variable is a component of the Rosenberg Self-Esteem Scale (TA232326). The scale includes these 10 items where higher scores are indicative of high self-esteem. Five of the items were reversed, as noted.

TA230098	B27a	Feel Like Person Of Worth
TA230099	B27b	Feel Has Number Of Good Qualities
TA230100	B27c	Inclined To Feel Like Failure (reverse)
TA230101	B27d	Able To Do Things As Well As Other
TA230102	B27e	Feel Not Much To Be Proud Of (reverse)
TA230103	B27f	Take Positive Attitude Toward Self
TA230104	B27g	Satisfied With Self
TA230105	B27h	Wish Had More Respect For Self (reverse)
TA230106	B27j	Feel Useless At Times (reverse)
TA230107	B27k	Think Self No Good At All (reverse)

Non-missing items have been recoded, with B27a, B27b, B27d, B27f and B27g scored as:

- 3 Strongly Agree
- 2 Agree
- 1 Disagree
- 0 Strongly Disagree

Non-missing items have been recoded, with B27c, B27e, B27h, B27j and B27k scored as:

- 0 Strongly Agree
- 1 Agree
- 2 Disagree
- 3 Strongly Disagree

Most people score 15-25; anything below 15 is indicative of low self-esteem.

This scale is only generated if all items are non-missing.

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent selfimage. Princeton, NJ:Princeton University Press. https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

```
*--Rosenberg Self-Esteem--*
rosenb='97'; rosenbcat='0';
```

```
if b27ackpt='5' then do;
  array b5var B27a B27b B27d B27f B27g;
  array b5varsc B27asc B27bsc B27dsc B27fsc B27gsc;
  array b5Rvar B27c B27e B27h B27j B27k;
  array b5Rvarsc B27csc B27esc B27hsc B27jsc B27ksc;

  numb5var=0;
  do over b5var;
    if b5var ne '9' then numb5var=numb5var+1;
    if b5var='9' then b5varsc=0;
    else b5varsc=b5var-1;
```

```

end;

*--- reverse coding ---*;
numb5Rvar=0;
do over b5Rvar;
  if b5Rvar ne '9' then numb5Rvar=numb5Rvar+1;
  if b5Rvar='9' then b5Rvarsc=0;
  else if b5Rvar='4' then b5Rvarsc=0;
  else if b5Rvar='3' then b5Rvarsc=1;
  else if b5Rvar='2' then b5Rvarsc=2;
  else if b5Rvar='1' then b5Rvarsc=3;
end;

if (numb5var+numb5Rvar) lt 10 then rbscore=99;
else rbscore =
B27asc+B27bsc+B27csc+B27dsc+B27esc+B27fsc+B27gsc+B27hsc+B27jsc+B27ksc;
  rosenb = put(rbscore,z2.);
*--- Rosenberg categories ---*;
  if      '00' le rosenb le '14' then rosenbcat='1';
  else if '15' le rosenb le '30' then rosenbcat='2';
  else if      rosenb='99'      then rosenbcat='9';
end;

```

TA232327 Scale Score: Rosenberg Self-Esteem

This categorical score is generated from the Rosenberg Self-Esteem Scale (TA232326), which ranges from 0-30. Standard interpretation of this scale is that any score below 15 is indicative of low self-esteem.

This item is coded as:

- 1 Low self-esteem
- 2 Moderate to high self-esteem

The origin of the scale is from Rosenberg, M. (1965). Society and the adolescent self image.

https://fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Self_Measures_for_Self-Esteem_ROSENBERG_SELF-ESTEEM.pdf

Princeton, NJ:Princeton University Press. Revised scale used since CDS-2014.

```
*--- Rosenberg categories ---*;  
  if      '00' le rosenb le '14' then rosenbcat='1';  
  else if '15' le rosenb le '30' then rosenbcat='2';  
  else if      rosenb='99'      then rosenbcat='9';  
end;
```

TA232328 Scale: Non-Specific Psychological Distress-Kessler K6 (PSYCHDIST)

This scale is the sum of all non-missing responses to these 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the Tim
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the Tim
- 1 A little of the time
- 0 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress K6 ----*;
psychdist='00';
array dvar h83a h83b h83c h83d h83e h83f;
array dvarsc h83asc h83bsc h83csc h83dsc h83esc h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4;
end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if psychdist='99' then psychdistcat='9';
run;
```

TA232122 How Often Felt Nervous in Past Month

H83a. Now I would like to ask you some questions about how you have been feeling in the past month. During the past 30 days, how often did you feel nervous?

Would you say all of the time, most of the time, some of the time, a little of the time, or none of the time?

This variable is a component of the Non-Specific Psychological Distress-K6 Scale (TA232328). This scale is the sum of all non-missing responses to 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the time
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the Tim
- 1 A little of the time
- 0 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress K6 ----*;
psychdist='00';
array dvar h83a h83b h83c h83d h83e h83f;
array dvarsc h83asc h83bsc h83csc h83dsc h83esc h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4; end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if psychdist='99' then psychdistcat='9'; run;
```

TA232123 How Often Felt Hopeless in Past Month

H83b. (During the past 30 days, how often did you...) Feel hopeless?
(Would you say all of the time, most of the time, some of the time, a little of the time, or none of the time?)

This variable is a component of the Non-Specific Psychological Distress-K6 Scale (TA232328). This scale is the sum of all non-missing responses to 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the time
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the Tim
- 1 A little of the time
- 0 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress    K6 ----*;
psychdist='00';
array dvar    h83a    h83b    h83c    h83d    h83e    h83f;
array dvarsc  h83asc h83bsc h83csc h83dsc h83esc h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4; end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
  if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if          psychdist='99'      then psychdistcat='9'; run;
```

TA232124 How Often Felt Restless in Past Month

H83c. (During the past 30 days, how often did you...) Feel restless or fidgety?
(Would you say all of the time, most of the time, some of the time, a little of the time, or none of the time?)

This variable is a component of the Non-Specific Psychological Distress-K6 Scale (TA232328). This scale is the sum of all non-missing responses to 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the time
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the Tim
- 1 A little of the time
- 0 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress    K6 ----*;
psychdist='00';
array dvar    h83a    h83b    h83c    h83d    h83e    h83f;
array dvarsc  h83asc  h83bsc  h83csc  h83dsc  h83esc  h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4; end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
  if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if          psychdist='99'      then psychdistcat='9'; run;
```

TA232125 How Often Felt Everything an Effort in Past Month

H83d. (During the past 30 days, how often did you...) Feel that everything was an effort?
(Would you say all of the time, most of the time, some of the time, a little of the time, or none of the time?)

This variable is a component of the Non-Specific Psychological Distress-K6 Scale (TA232328). This scale is the sum of all non-missing responses to 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the time
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the Tim
- 1 A little of the time
- 0 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress    K6 ----*;
psychdist='00';
array dvar    h83a    h83b    h83c    h83d    h83e    h83f;
array dvarsc  h83asc  h83bsc  h83csc  h83dsc  h83esc  h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4;  end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
  if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if          psychdist='99'      then psychdistcat='9'; run;
```

TA232126 How Often Felt Too Sad in Past Month

H83e. (During the past 30 days, how often did you...) Feel so sad nothing could cheer you up?
(Would you say all of the time, most of the time, some of the time, a little of the time, or none of the time?)

This variable is a component of the Non-Specific Psychological Distress-K6 Scale (TA232328). This scale is the sum of all non-missing responses to 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the Tim
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the time
- 1 A little of the time
- 0 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress    K6 ----*;
psychdist='00';
array dvar    h83a    h83b    h83c    h83d    h83e    h83f;
array dvarsc  h83asc  h83bsc  h83csc  h83dsc  h83esc  h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4;  end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
  if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if          psychdist='99'      then psychdistcat='9'; run;
```

TA232127 How Often Felt Worthless in Past Month

H83f. (During the past 30 days, how often did you...) Feel worthless?
(Would you say all of the time, most of the time, some of the time, a little of the time, or none of the time?)

This variable is a component of the Non-Specific Psychological Distress-K6 Scale (TA232328). This scale is the sum of all non-missing responses to 6 items, where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

TA232122	H83a	How Often Felt Nervous in Past Month
TA232123	H83b	How Often Felt Hopeless in Past Month
TA232124	H83c	How Often Felt Restless in Past Month
TA232125	H83d	How Often Felt Everything an Effort in Past Month
TA232126	H83e	How Often Felt Too Sad in Past Month
TA232127	H83f	How Often Felt Worthless in Past Month

Non-missing items are coded as:

- 1 All of the time
- 2 Most of the time
- 3 Some of the time
- 4 A little of the time
- 5 None of the time

To create the scale, non-missing items are recoded as:

- 4 All of the time
- 3 Most of the time
- 2 Some of the time
- 1 A little of the time
- 1 None of the time

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---- Psychological distress    K6 ----*;
psychdist='00';
array dvar    h83a    h83b    h83c    h83d    h83e    h83f;
array dvarsc  h83asc  h83bsc  h83csc  h83dsc  h83esc  h83fsc;
numdvar=0;
do over dvar;
  if dvar ne '9' then numdvar=numdvar+1;
  if dvar='9' then dvarsc='0';
  else if dvar='5' then dvarsc=0;
  else if dvar='4' then dvarsc=1;
  else if dvar='3' then dvarsc=2;
  else if dvar='2' then dvarsc=3;
  else if dvar='1' then dvarsc=4;  end;
if numdvar=0 then pdsc=99;
else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;
psychdist = put(pdsc,z2.);
  if '00' le psychdist le '12' then psychdistcat='1';
else if '13' le psychdist le '24' then psychdistcat='2';
else if          psychdist='99'      then psychdistcat='9'; run;
```

TA232329 Scale Score: Non-Specific Psychological Distress-Kessler K6

This categorical variable is generated from the Scale: Non-Spec Psych Distress K6 Scale (TA232328), which ranges from 0-24 where a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of nonspecific distress.

This item is scored as:

- 1 Non-clinically significant for distress
- 2 Clinically significant threshold for distress

This variable may be based on fewer than the above six variables. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

This scale was developed by Dr. Ronald Kessler, Professor of Healthcare Policy at Harvard Medical School.

```
*---Kessler non-specific psychological distress---*
if numdvar=0 then pdsc=99;
  else pdsc=h83asc+h83bsc+h83csc+h83dsc+h83esc+h83fsc;

  psychdist = put(pdsc,z2.);
  if      '00' le psychdist le '12' then psychdistcat='1';
  else if '13' le psychdist le '24' then psychdistcat='2';
  else if      psychdist='99'      then psychdistcat='9';
run;
```

TA232330 Scale: Everyday Discrimination Scale (DISCRIM)

This scale is the rounded raw average of non-missing values for these items:

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

This scale may be based on fewer than the above six items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The source of this scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>).

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var    k1a    k1b    k1c    k1d    k1e    k1f;
array k2varsc  klasc  klbsc  klcsc  kldsc  kleesc  klfsc;

numk2var=0;
do over k2var;
  if k2var ne '9' then numk2var=numk2var+1;
  if k2var='9' then k2varsc=0;
  else k2varsc=k2var;
end;

if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleesc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleesc+klfsc)/6),1);
run;
```

TA232231 How Often Treated with Less Courtesy

K1a. Now I would like to talk about things that can happen in your day-to-day life. In your day-to-day life, how often have any of the following things happened to you? You are treated with less courtesy than other people. Would you say this never happens to you, happens less than once a year, a few times a year, a few times a month, at least once a week, or almost every day?

This variable is a component of the Everyday Discrimination Scale (TA232330). The scale is the average of all non-missing responses to 6 items each scored 1-6, where higher scores are indicative of greater levels of discrimination.

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The origin of the scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>)

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var    k1a    k1b    k1c    k1d    k1e    k1f;
array k2varsc  klasc  klbsc  klcsc  kldsc  klesc  klfsc;

numk2var=0;
do over k2var;
  if k2var ne '9' then numk2var=numk2var+1;
  if k2var='9' then k2varsc=0;
  else k2varsc=k2var;
end;
if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+klesc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+klesc+klfsc)/6),1);
run;
```

TA232232 How Often Receive Poorer Service

K1b. (How about...) You receive poorer service than other people at restaurants or stores.
(Would you say this never happens to you, happens less than once a year, a few times a year, a few times a month, at least once a week, or almost every day?)

This variable is a component of the Everyday Discrimination Scale (TA232330). The scale is the average of all non-missing responses to 6 items each scored 1-6, where higher scores are indicative of greater levels of discrimination.

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The origin of the scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>)

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var    k1a    k1b    k1c    k1d    k1e    k1f;
array k2varsc  klasc  klbsc  klcsc  kldsc  kleesc  klfsc;

numk2var=0;
do over k2var;
    if k2var ne '9' then numk2var=numk2var+1;
    if k2var='9' then k2varsc=0;
    else k2varsc=k2var;
end;

if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleesc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleesc+klfsc)/6),1);
run;
```

TA232233 How Often Others Treat as Stupid

K1c. (How about...) People act as if they think you are not smart.

(Would you say this never happens to you, happens less than once a year, a few times a year, a few times a month, at least once a week, or almost every day?)

This variable is a component of the Everyday Discrimination Scale (TA232330). The scale is the average of all non-missing responses to 6 items each scored 1-6, where higher scores are indicative of greater levels of discrimination.

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The origin of the scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>)

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var k1a k1b k1c k1d k1e k1f;
array k2varsc klasc klbsc klcsc kldsc kleesc klfsc;

numk2var=0;
do over k2var;
  if k2var ne '9' then numk2var=numk2var+1;
  if k2var='9' then k2varsc=0;
  else k2varsc=k2var;
end;

if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleesc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleesc+klfsc)/6),1);
run;
```

TA232234 How Often Others Act Afraid

K1d. (How about...) People act as if they are afraid of you.

(Would you say this never happens to you, happens less than once a year, a few times a year, a few times a month, at least once a week, or almost every day?)

This variable is a component of the Everyday Discrimination Scale (TA232330). The scale is the average of all non-missing responses to 6 items each scored 1-6, where higher scores are indicative of greater levels of discrimination.

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The origin of the scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>)

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var    k1a    k1b    k1c    k1d    k1e    k1f;
array k2varsc  klasc  klbsc  klcsc  kldsc  kleasc  klfsc;

numk2var=0;
do over k2var;
  if k2var ne '9' then numk2var=numk2var+1;
  if k2var='9' then k2varsc=0;
  else k2varsc=k2var;
end;

if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleasc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+kleasc+klfsc)/6),1);
run;
```

TA232235 How Often Others Treat as Dishonest

K1e. (How about...) People act as if they think you are dishonest.

(Would you say this never happens to you, happens less than once a year, a few times a year, a few times a month, at least once a week, or almost every day?)

This variable is a component of the Everyday Discrimination Scale (TA232330). The scale is the average of all non-missing responses to 6 items each scored 1-6, where higher scores are indicative of greater levels of discrimination.

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The origin of the scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>)

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var    k1a    k1b    k1c    k1d    k1e    k1f;
array k2varsc  klasc  klbsc  klcsc  kldsc  klezc  klfsc;

numk2var=0;
do over k2var;
    if k2var ne '9' then numk2var=numk2var+1;
    if k2var='9' then k2varsc=0;
    else k2varsc=k2var;
end;

if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+klezc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+klezc+klfsc)/6),1);
run;
```

K1f. (How about...) People act as if they're better than you are.

(Would you say this never happens to you, happens less than once a year, a few times a year, a few times a month, at least once a week, or almost every day?)

This variable is a component of the Everyday Discrimination Scale (TA232330). The scale is the average of all non-missing responses to 6 items each scored 1-6, where higher scores are indicative of greater levels of discrimination.

TA232231	K1a	How Often Treated with Less Courtesy
TA232232	K1b	How Often Receive Poorer Service
TA232233	K1c	How Often Others Treat as Stupid
TA232234	K1d	How Often Others Act Afraid
TA232235	K1e	How Often Others Treat as Dishonest
TA232236	K1f	How Often Others Act Superior

Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

Non-missing items are coded as:

- 1 Never
- 2 Less than once a year
- 3 A few times a year
- 4 A few time a month
- 5 At least once a week
- 6 Almost every day

The origin of the scale is from CCAHS

(<https://www.icpsr.umich.edu/web/RCMD/studies/31142>)

```
*---- Everyday Discrimination ----*;
discrim='0';

array k2var    k1a    k1b    k1c    k1d    k1e    k1f;
array k2varsc  klasc  klbsc  klcsc  kldsc  klezc  klfsc;

numk2var=0;
do over k2var;
  if k2var ne '9' then numk2var=numk2var+1;
  if k2var='9' then k2varsc=0;
  else k2varsc=k2var;
end;

if numk2var lt 5 then discrim='9';
else if numk2var=5 then discrim=round(((klasc+klbsc+klcsc+kldsc+klezc+klfsc)/5),1);
else if numk2var=6 then discrim=round(((klasc+klbsc+klcsc+kldsc+klezc+klfsc)/6),1);
run;
```

TA232331 Scale: Risky Behavior (RISKY)

This Scale is the average of all non-missing responses to these 5 items, where higher scores are indicative of greater risk taking.

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Risky Behaviors ----*
  risky='0';

  array k3var    k9a    k9b    k9c    k9d    k9e  ;
  array k3varsc k9asc k9bsc k9csc k9dsc k9esc;

  numk3var=0;
  do over k3var;
    if k3var ne '9' then numk3var=numk3var+1;
    if k3var='9' then k3varsc=0;
    else k3varsc=k3var;
  end;

  if numk3var lt 4 then risky='9';
  else if numk3var=4 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/4),1);
  else if numk3var=5 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/5),1);
  run;
```

TA232258 How Often Did Something Dangerous

K9a. Now please think about the last 6 months. About how often in those 6 months did you do something you knew was dangerous just for the thrill of it?

Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?

This variable is a component of both the Risky Behaviors Scale (TA232331) and Sensation Seeking Scale (TA232332). The Risky Behaviors scale is the average of all non-missing responses to these 5 items. The items are each scored 1-7 where higher scores are indicative of more risk taking:

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

The Sensation Seeking Scale is the average of non-missing values for these 2 items. The items are each scored 1-7 where higher values indicate more sensation seeking behaviors.

TA232258	K9a	How Often Did Something Dangerous
TA232259	K9a2	How Often Did Something Exciting

Non-missing values for these items in both scales are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

These scales may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of both scales is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Risky Behaviors ----*;  
risky='0';  
array k3var k9a k9b k9c k9d k9e ;  
array k3varsc k9asc k9bsc k9csc k9dsc k9esc;  
  
numk3var=0;  
do over k3var;  
  if k3var ne '9' then numk3var=numk3var+1;  
  if k3var='9' then k3varsc=0;  
  else k3varsc=k3var;  
end;  
if numk3var lt 4 then risky='9';  
else if numk3var=4 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/4),1);  
else if numk3var=5 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/5),1);  
run;
```

TA232260 How Often Damaged Public Property

K9b. (About how often in those 6 months did you...) Damage public or private property?
(Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?)

This variable is a component of the Risky Behaviors Scale (TA232331). The scale is the average of all non-missing responses to these 5 items. The items are each scored 1-7 where higher scores are indicative of more risk taking:

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Risky Behaviors ----*;
  risky='0';

  array k3var    k9a    k9b    k9c    k9d    k9e  ;
  array k3varsc  k9asc  k9bsc  k9csc  k9dsc  k9esc;

  numk3var=0;
  do over k3var;
    if k3var ne '9' then numk3var=numk3var+1;
    if k3var='9' then k3varsc=0;
    else k3varsc=k3var;
  end;

  if numk3var lt 4 then risky='9';
  else if numk3var=4 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/4),1);
  else if numk3var=5 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/5),1);
run;
```

TA232261 How Often Got into Physical Fight

K9c. (About how often in those 6 months did you...) Get into a physical fight?
(Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?)

This variable is a component of the Risky Behaviors Scale (TA232331). The scale is the average of all non-missing responses to these 5 items. The items are each scored 1-7 where higher scores are indicative of more risk taking:

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Risky Behaviors ----*;
  risky='0';

  array k3var    k9a    k9b    k9c    k9d    k9e ;
  array k3varsc k9asc k9bsc k9csc k9dsc k9esc;

  numk3var=0;
  do over k3var;
    if k3var ne '9' then numk3var=numk3var+1;
    if k3var='9' then k3varsc=0;
    else k3varsc=k3var;
  end;

  if numk3var lt 4 then risky='9';
  else if numk3var=4 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/4),1);
  else if numk3var=5 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/5),1);
  run;
```

K9d. (About how often in those 6 months did you...) Drive when you were drunk or high on drugs?
(Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?)

This variable is a component of the Risky Behaviors Scale (TA232331). The scale is the average of all non-missing responses to these 5 items. The items are each scored 1-7 where higher scores are indicative of more risk taking:

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Risky Behaviors ----*;
  risky='0';

  array k3var    k9a    k9b    k9c    k9d    k9e  ;
  array k3varsc k9asc k9bsc k9csc k9dsc k9esc;

  numk3var=0;
  do over k3var;
    if k3var ne '9' then numk3var=numk3var+1;
    if k3var='9' then k3varsc=0;
    else k3varsc=k3var;
  end;

  if numk3var lt 4 then risky='9';
  else if numk3var=4 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/4),1);
  else if numk3var=5 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/5),1);
  run;
```

TA232263 How Often Drove When Drunk or High

K9e. (About how often in those 6 months did you...) Drive when you were drunk or high on drugs?
(Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?)

This variable is a component of the Risky Behaviors Scale (TA232331). The scale is the average of all non-missing responses to these 5 items. The items are each scored 1-7 where higher scores are indicative of more risk taking:

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Risky Behaviors ----*;
  risky='0';

  array k3var    k9a    k9b    k9c    k9d    k9e ;
  array k3varsc  k9asc  k9bsc  k9csc  k9dsc  k9esc;

  numk3var=0;
  do over k3var;
    if k3var ne '9' then numk3var=numk3var+1;
    if k3var='9' then k3varsc=0;
    else k3varsc=k3var;
  end;

  if numk3var lt 4 then risky='9';
  else if numk3var=4 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/4),1);
  else if numk3var=5 then risky=round(((k9asc+k9bsc+k9csc+k9dsc+k9esc)/5),1);
  run;
```

TA232332 Scale: Sensation Seeking

This scale includes 2 items where higher scores are indicative of more sensation seeking activities.

- TA232258 K9a How Often Did Something Dangerous
- TA232259 K9a2 How Often Did Something Exciting

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*----- Sensation Seeking -----*;
  senseek='0';

  array k4var    k9a    k9a2    ;
  array k4varsc  k9asc  k9a2sc ;

  numk4var=0;
  do over k4var;
    if k4var ne '9' then numk4var=numk4var+1;
    if k4var='9' then k4varsc=0;
    else k4varsc=k4var;
  end;

  if numk4var lt 1 then senseek='9';
  else if numk4var=2 then senseek=round(((k9asc+k9a2sc)/2),1);
  else if numk4var=1 then senseek=round(((k9asc+k9a2sc)/1),1);
run;
```

TA232258 How Often Did Something Dangerous

K9a. Now please think about the last 6 months. About how often in those 6 months did you do something you knew was dangerous just for the thrill of it?

Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?

This variable is a component of both the Risky Behaviors Scale (TA232331) and Sensation Seeking Scale (TA232332). The Risky Behaviors scale is the average of all non-missing responses to these 5 items. The items are each scored 1-7 where higher scores are indicative of more risk taking:

TA232258	K9a	How Often Did Something Dangerous
TA232260	K9b	How Often Damaged Public Property
TA232261	K9c	How Often Got into Physical Fight
TA232262	K9d	How Often Drove When Drunk or High
TA232263	K9e	How Often Rode with Drunk Driver

The Sensation Seeking Scale is the average of non-missing values for these 2 items. The items are each scored 1-7 where higher values indicate more sensation seeking behaviors.

TA232258	K9a	How Often Did Something Dangerous
TA232259	K9a2	How Often Did Something Exciting

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

These scales may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of both scales is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. *Journal of communication*, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Sensation Seeking ----*;
senseek='0';

array k4var k9a k9a2 ;
array k4varsc k9asc k9a2sc ;
numk4var=0;
do over k4var;
  if k4var ne '9' then numk4var=numk4var+1;
  if k4var='9' then k4varsc=0;
  else k4varsc=k4var;
end;
if numk4var lt 1 then senseek='9';
else if numk4var=2 then senseek=round(((k9asc+k9a2sc)/2),1);
else if numk4var=1 then senseek=round(((k9asc+k9a2sc)/1),1);
run;
```

TA232259 How Often Did Something Exciting

K9a2. (About how often in those 6 months did you...) Do something exciting, even if it was dangerous? Would you say never, once, 2-3 times, 4-6 times, 7-10 times, 11-20 times, or 21 or more times?

This variable is a component of the Sensation Seeking Scale (TA232332). The Sensation Seeking Scale is the average of non-missing values for these 2 items. The items are each scored 1-7 where higher values indicate more sensation seeking behaviors.

TA232258 K9a How Often Did Something Dangerous
TA232259 K9a2 How Often Did Something Exciting

Non-missing values for these items are coded as:

- 1 Never
- 2 Once
- 3 2-3 times
- 4 4-6 times
- 5 7-10 times
- 6 11-20 times
- 7 21 or more times

This scale may be based on fewer than the above five items. Items containing "don't know" and "refused" responses are not included in the calculation of the scale.

The origin of the scale is from MSALT Risky Behaviors, Slater, M. D. (2003). Alienation, aggression, and sensation seeking as predictors of adolescent use of violent film, computer, and website content. Journal of communication, 53(1), 105-121. <https://doi.org/10.1111/j.1460-2466.2003.tb03008.x>

```
*---- Sensation Seeking ----*;
senseek='0';

array k4var k9a k9a2 ;
array k4varsc k9asc k9a2sc ;

numk4var=0;
do over k4var;
  if k4var ne '9' then numk4var=numk4var+1;
  if k4var='9' then k4varsc=0;
  else k4varsc=k4var;
end;

if numk4var lt 1 then senseek='9';
else if numk4var=2 then senseek=round(((k9asc+k9a2sc)/2),1);
else if numk4var=1 then senseek=round(((k9asc+k9a2sc)/1),1);
run;
```

TA232334 Scale: Technology Use

This scale is composed of these 5 items, each scored 1-5 for a total of 25 points where lower scores are indicative of greater frequency of technology use. The scale is the sum of non-missing items for these items.

TA230047	A23a	How Often Play Games on Computer
TA230048	A23b	How Often Send/Receive Email
TA230049	A23c	How Often Send/Receive Texts
TA230050	A23d	How Often Interact on Social Media
TA230051	A23e	How Often Follow Interests

Non-missing values for these items are coded as:

- 1 Every day
- 2 A few times a week
- 3 Once a week
- 4 Less than once a week
- 5 Never

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

This scale was developed for CDS-2014. Hargittai, E., & Hsieh, Y. P. (2012). Succinct survey measures of web-use skills. *Social Science Computer Review*, 30(1), 95–107. <https://doi.org/10.1177/0894439310397146>

```
techuse='00';
  array avar    a23a  a23b  a23c  a23d  a23e;
  array avarsc  a23asc a23bsc a23csc a23dsc a23esc;

numavar=0;
do over avar;
  if avar ne '9' then numavar=numavar+1;
  if avar='9' then avarsc='0';
  else avarsc=avar;
end;
if numavar=0 then techuse=99;
else techuse=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techuse,z2.);
run;
```

TA230047 How Often Play Games on Computer

A23a. In the past 30 days, how often have you used a computer or other electronic device (such as a tablet, smartphone or gaming console) to play games?

Would you say every day, a few times a week, once a week, less than once a week or never?

This variable is a component of a Technology Use Scale (TA232334). The scale includes these 5 items scored 1-5 where higher scores are indicative of less frequent use of technology.

TA230047	A23a	How Often Play Games on Computer
TA230048	A23b	How Often Send/Receive Email
TA230049	A23c	How Often Send/Receive Texts
TA230050	A23d	How Often Interact on Social Media
TA230051	A23e	How Often Follow Interests

Non-missing values for these items are coded as:

- 1 Every day
- 2 A few times a week
- 3 Once a week
- 4 Less than once a week
- 5 Never

This scale was developed for CDS-2014. Hargittai, E., & Hsieh, Y. P. (2012). Succinct survey measures of web-use skills. *Social Science Computer Review*, 30(1), 95–107. <https://doi.org/10.1177/0894439310397146>

-----Technology Use scale -----

```
techuse='00';
  array avar    a23a  a23b  a23c  a23d  a23e;
  array avarsc  a23asc a23bsc a23csc a23dsc a23esc;

numavar=0;
do over avar;
  if avar ne '9' then numavar=numavar+1;
  if avar='9' then avarsc='0';
  else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);
run;
```

TA230048 How Often Send/Receive Email

A23b. In the past 30 days how often have you... Sent or received email?

Would you say every day, a few times a week, once a week, less than once a week or never?

This variable is a component of a Technology Use Scale (TA232334). The scale includes these 5 items scored 1-5 where higher scores are indicative of less frequent use of technology.

TA230047	A23a	How Often Play Games on Computer
TA230048	A23b	How Often Send/Receive Email
TA230049	A23c	How Often Send/Receive Texts
TA230050	A23d	How Often Interact on Social Media
TA230051	A23e	How Often Follow Interests

Non-missing values for these items are coded as:

- 1 Every day
- 2 A few times a week
- 3 Once a week
- 4 Less than once a week
- 5 Never

This scale was developed for CDS-2014. Hargittai, E., & Hsieh, Y. P. (2012). Succinct survey measures of web-use skills. *Social Science Computer Review*, 30(1), 95–107. <https://doi.org/10.1177/0894439310397146>

-----Technology Use scale -----

```
techuse='00';
  array avar    a23a    a23b    a23c    a23d    a23e;
  array avarsc  a23asc  a23bsc  a23csc  a23dsc  a23esc;

numavar=0;
  do over avar;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
  end;
  if numavar=0 then techusesc=99;
  else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
  techuse = put(techusesc,z2.);
run;
```

TA230049 How Often Send/Receive Texts

A23c. (In the past 30 days how often have you...) Sent or received text messages?
Would you say every day, a few times a week, once a week, less than once a week or never?

This variable is a component of a Technology Use Scale (TA232334). The scale includes these 5 items scored 1-5 where higher scores are indicative of less frequent use of technology.

TA230047 A23a How Often Play Games on Computer
TA230048 A23b How Often Send/Receive Email
TA230049 A23c How Often Send/Receive Texts
TA230050 A23d How Often Interact on Social Media
TA230051 A23e How Often Follow Interests

Non-missing values for these items are coded as:

- 1 Every day
- 2 A few times a week
- 3 Once a week
- 4 Less than once a week
- 5 Never

This scale was developed for CDS-2014. Hargittai, E., & Hsieh, Y. P. (2012). Succinct survey measures of web-use skills. *Social Science Computer Review*, 30(1), 95–107. <https://doi.org/10.1177/0894439310397146>

-----Technology Use scale -----

```
techuse='00';
  array avar    a23a    a23b    a23c    a23d    a23e;
  array avarsc  a23asc  a23bsc  a23csc  a23dsc  a23esc;

numavar=0;
  do over avar;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
  end;
  if numavar=0 then techusesc=99;
  else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
  techuse = put(techusesc,z2.);
run;
```

A23d. (In the past 30 days how often have you...) Interacted with friends or family on a social media site (like Facebook, Instagram, or Twitter)?

Would you say every day, a few times a week, once a week, less than once a week or never?

This variable is a component of a Technology Use Scale (TA232334). The scale includes these 5 items scored 1-5 where higher scores are indicative of less frequent use of technology.

TA230047	A23a	How Often Play Games on Computer
TA230048	A23b	How Often Send/Receive Email
TA230049	A23c	How Often Send/Receive Texts
TA230050	A23d	How Often Interact on Social Media
TA230051	A23e	How Often Follow Interests

Non-missing values for these items are coded as:

- 1 Every day
- 2 A few times a week
- 3 Once a week
- 4 Less than once a week
- 5 Never

This scale was developed for CDS-2014. Hargittai, E., & Hsieh, Y. P. (2012). Succinct survey measures of web-use skills. *Social Science Computer Review*, 30(1), 95–107. <https://doi.org/10.1177/0894439310397146>

-----Technology Use scale -----

```
techuse='00';
  array avar    a23a  a23b  a23c  a23d  a23e;
  array avarsc  a23asc a23bsc a23csc a23dsc a23esc;

numavar=0;
  do over avar;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
  end;
  if numavar=0 then techusesc=99;
  else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
  techuse = put(techusesc,z2.);
run;
```

TA230051 How Often Follow Interests

A23e. (In the past 30 days, how often have you...) Followed topics or people that interest you on websites, blogs, or social media sites (like Facebook, Instagram, or Twitter), not including following or interacting with friends or family online?

Would you say every day, a few times a week, once a week, less than once a week or never?

This variable is a component of a Technology Use Scale (TA232334). The scale includes these 5 items scored 1-5 where higher scores are indicative of less frequent use of technology.

TA230047	A23a	How Often Play Games on Computer
TA230048	A23b	How Often Send/Receive Email
TA230049	A23c	How Often Send/Receive Texts
TA230050	A23d	How Often Interact on Social Media
TA230051	A23e	How Often Follow Interests

Non-missing values for these items are coded as:

- 1 Every day
- 2 A few times a week
- 3 Once a week
- 4 Less than once a week
- 5 Never

This scale was developed for CDS-2014. Hargittai, E., & Hsieh, Y. P. (2012). Succinct survey measures of web-use skills. *Social Science Computer Review*, 30(1), 95–107. <https://doi.org/10.1177/0894439310397146>

-----Technology Use scale -----

```
techuse='00';
  array avar    a23a  a23b  a23c  a23d  a23e;
  array avarsc  a23asc a23bsc a23csc a23dsc a23esc;

numavar=0;
do over avar;
  if avar ne '9' then numavar=numavar+1;
  if avar='9' then avarsc='0';
  else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);
run;
```

TA232335 Scale: Financial Responsibilities (FINRESP)

This scale is composed of these 4 items, each scored 1-3. The scale is constructed from the average of all non-missing responses, where higher values are indicative of more financial responsibility.

TA230057	B17a	How Much Responsibility for Earning Own Living
TA230058	B17b	How Much Responsibility for Paying Own Rent
TA230059	B17c	How Much Responsibility for Paying Own Bills
TA230060	B17d	How much Responsibility for Managing Own Money

Non-missing values for this item are coded as:

- 1 Somebody else is completely responsible for this
- 2 Responsibility is shared between me and someone else
- 3 I am completely responsible for this

For the scale they are recoded as:

- 1 Somebody else is completely responsible for this
- 3 Responsibility is shared between me and someone else
- 5 I am completely responsible for this

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source for this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*-----financial responsibility-----*
*--The code frame changed in 2019, so values are recoded to fit 2017 code frame.--*;
  array blvar      B17a  B17b  B17c  B17d;
  array blvarsc   B17asc B17bsc B17csc B17dsc;
  finresp='0';
*scale is only generated if the if respondent was 18-24 years old at the time of the
interview*
  numblvar=0;
  do over blvar;
    if blvar ne '9' then numblvar=numblvar+1;
    if blvar='9' then blvarsc=0;
    else if blvar='1' then blvarsc=1;
    else if blvar='2' then blvarsc=3;
    else if blvar='3' then blvarsc=5;
  end;
*-- need to have at least 3 valid items to calculate --*;
  if numblvar lt 3 then finresp='9';
  else do;
    if numblvar=3 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/3);
    if numblvar=4 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/4);
  end;
end;
  if avar ne '9' then numavar=numavar+1;
  if avar='9' then avarsc='0';
  else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);run;
```

B17a. As people get older they begin to take more responsibility for themselves. How much responsibility do you currently take for earning your own living?

Would you say somebody else does this for me all of the time, somebody else does this most of the time, I do this half of the time, I do this most of the time, or I am completely responsible for this all of the time?

This variable is part of the Financial Responsibility Scale (TA232335). The scale includes these 4 items that are scored 1-3. The scale is the average of non-missing values for this items:

TA230057	B17a	How Much Responsibility for Earning Own Living
TA230058	B17b	How Much Responsibility for Paying Own Rent
TA230059	B17c	How Much Responsibility for Paying Own Bills
TA230060	B17d	How much Responsibility for Managing Own Money

Non-missing values for this item are coded as:

- 1 Somebody else is completely responsible for this
- 2 Responsibility is shared between me and someone else
- 3 I am completely responsible for this

For the scale they are recoded as:

- 1 Somebody else is completely responsible for this
- 3 Responsibility is shared between me and someone else
- 5 I am completely responsible for this

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source for this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*-----financial responsibility-----*
*The codeframe changed in 2019, so values are recoded to fit 2017 codeframe.*
```

```
array blvar    B17a    B17b    B17c    B17d;
array blvarsc  B17asc  B17bsc  B17csc  B17dsc;
```

```
finresp='0';
```

```
*scale is only generated if the if respondent was 18-24 years old at the time of the
interview*
```

```
  numblvar=0;
  do over blvar;
    if blvar ne '9' then numblvar=numblvar+1;
    if blvar='9' then blvarsc=0;
    else if blvar='1' then blvarsc=1;
    else if blvar='2' then blvarsc=3;
    else if blvar='3' then blvarsc=5;
  end;
```

```
  *-- need to have at least 3 valid items to calculate  --*;
  if numblvar lt 3 then finresp='9';
  else do;
    if numblvar=3 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/3);
```

```
        if numblvar=4 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/4);
    end;
end;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);
run;
```

TA230058 How Much Responsibility for Paying Own Rent

B17b. (How much responsibility do you currently take for...) Paying your rent or mortgage?

Would you say somebody else does this for me all of the time, somebody else does this most of the time, I do this half of the time, I do this most of the time, or I am completely responsible for this all of the time?

This variable is part of the Financial Responsibility Scale (TA232335). The scale includes these 4 items that are scored 1-3. The scale is the average of non-missing values for this items:

TA230057	B17a	How Much Responsibility for Earning Own Living
TA230058	B17b	How Much Responsibility for Paying Own Rent
TA230059	B17c	How Much Responsibility for Paying Own Bills
TA230060	B17d	How much Responsibility for Managing Own Money

Non-missing values for this item are coded as:

- 1 Somebody else is completely responsible for this
- 2 Responsibility is shared between me and someone else
- 3 I am completely responsible for this

For the scale they are recoded as:

- 1 Somebody else is completely responsible for this
- 3 Responsibility is shared between me and someone else
- 5 I am completely responsible for this

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source for this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*-----financial responsibility-----*
*The codeframe changed in 2019, so values are recoded to fit 2017 codeframe.*
```

```
array blvar    B17a    B17b    B17c    B17d;
array blvarsc  B17asc  B17bsc  B17csc  B17dsc;

finresp='0';
```

```
*scale is only generated if the if respondent was 18-24 years old at the time of the
interview*
```

```
    numblvar=0;
    do over blvar;
        if blvar ne '9' then numblvar=numblvar+1;
        if blvar='9' then blvarsc=0;
        else if blvar='1' then blvarsc=1;
        else if blvar='2' then blvarsc=3;
        else if blvar='3' then blvarsc=5;
    end;

*-- need to have at least 3 valid items to calculate  --*;
if numblvar lt 3 then finresp='9';
else do;
    if numblvar=3 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/3);
    if numblvar=4 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/4);
```

```
end;
end;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);
run;
```

TA230059 How Much Responsibility for Paying Own Bills

B17c. (How much responsibility do you currently take for...) Paying your bills?

Would you say somebody else does this for me all of the time, somebody else does this most of the time, I do this half of the time, I do this most of the time, or I am completely responsible for this all of the time?

This variable is part of the Financial Responsibility Scale (TA232335). The scale includes these 4 items that are scored 1-3. The scale is the average of non-missing values for this items:

TA230057	B17a	How Much Responsibility for Earning Own Living
TA230058	B17b	How Much Responsibility for Paying Own Rent
TA230059	B17c	How Much Responsibility for Paying Own Bills
TA230060	B17d	How much Responsibility for Managing Own Money

Non-missing values for this item are coded as:

- 1 Somebody else is completely responsible for this
- 2 Responsibility is shared between me and someone else
- 3 I am completely responsible for this

For the scale they are recoded as:

- 1 Somebody else is completely responsible for this
- 3 Responsibility is shared between me and someone else
- 5 I am completely responsible for this

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source for this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*-----financial responsibility-----*
*The codeframe changed in 2019, so values are recoded to fit 2017 codeframe.*

array blvar    B17a    B17b    B17c    B17d;
array blvarsc  B17asc B17bsc B17csc B17dsc;

finresp='0';

*scale is only generated if the if respondent was 18-24 years old at the time of the
interview*
  numblvar=0;
  do over blvar;
    if blvar ne '9' then numblvar=numblvar+1;
    if blvar='9' then blvarsc=0;
    else if blvar='1' then blvarsc=1;
    else if blvar='2' then blvarsc=3;
    else if blvar='3' then blvarsc=5;
  end;

*-- need to have at least 3 valid items to calculate --*
if numblvar lt 3 then finresp='9';
else do;
  if numblvar=3 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/3);
  if numblvar=4 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/4);
```

```
    end;
end;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);
run;
```

TA230060 How much Responsibility for Managing Own Money

B17d. (How much responsibility do you currently take for...) Managing your money?

Would you say somebody else does this for me all of the time, somebody else does this most of the time, I do this half of the time, I do this most of the time, or I am completely responsible for this all of the time?

This variable is part of the Financial Responsibility Scale (TA232335). The scale includes these 4 items that are scored 1-3. The scale is the average of non-missing values for this items:

TA230057	B17a	How Much Responsibility for Earning Own Living
TA230058	B17b	How Much Responsibility for Paying Own Rent
TA230059	B17c	How Much Responsibility for Paying Own Bills
TA230060	B17d	How much Responsibility for Managing Own Money

Non-missing values for this item are coded as:

- 1 Somebody else is completely responsible for this
- 2 Responsibility is shared between me and someone else
- 3 I am completely responsible for this

For the scale they are recoded as:

- 1 Somebody else is completely responsible for this
- 3 Responsibility is shared between me and someone else
- 5 I am completely responsible for this

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source for this scale is from MSALT, 1992 (<https://garp.education.uci.edu/msalt.html>)

```
*-----financial responsibility-----*
*The codeframe changed in 2019, so values are recoded to fit 2017 codeframe.*
```

```
array blvar    B17a    B17b    B17c    B17d;
array blvarsc  B17asc  B17bsc  B17csc  B17dsc;

finresp='0';
```

```
*scale is only generated if the if respondent was 18-24 years old at the time of the
interview*
```

```
    numblvar=0;
    do over blvar;
        if blvar ne '9' then numblvar=numblvar+1;
        if blvar='9' then blvarsc=0;
        else if blvar='1' then blvarsc=1;
        else if blvar='2' then blvarsc=3;
        else if blvar='3' then blvarsc=5;
    end;
```

```
*-- need to have at least 3 valid items to calculate  --*;
if numblvar lt 3 then finresp='9';
else do;
    if numblvar=3 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/3);
    if numblvar=4 then finresp=round((B17asc+B17bsc+B17csc+B17dsc)/4);
```

```
    end;
end;
    if avar ne '9' then numavar=numavar+1;
    if avar='9' then avarsc='0';
    else avarsc=avar;
end;
if numavar=0 then techusesc=99;
else techusesc=a23asc+a23bsc+a23csc+a23dsc+a23esc;
techuse = put(techusesc,z2.);
run;
```

GENERALIZED ANXIETY DISORDER SCREENING (GAD7)

TA232336 Scale: Gen Anxiety Disorder (GAD7)

This scale is the non-missing sum for these 7 items where higher scores are indicative of greater anxiety. It ranges from 0-21.

- TA230118 B23a Feel Nervous, Anxious, On Edge
- TA230119 B23b Unable To Stop/Control Worry
- TA230120 B23c Worry Too Much
- TA230121 B23d Trouble Relaxing
- TA230122 B23e Restless, Hard To Sit Still
- TA230123 B23f Easily Annoyed, Irritable
- TA230124 B23g Feel Afraid Something Awful Happen

Non-missing items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b2var      B23a      B23b      B23c      B23d      B23e      B23f      B23g;
array b2varsc    B23asc    B23bsc    B23csc    B23dsc    B23esc    B23fsc    B23gsc;

gad = '00';
numb2var=0;
do over b2var;
  if b2var ne '9' then numb2var=numb2var+1;
  if b2var='9' then b2varsc=0;
  else b2varsc=b2var-1;
end;
if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;
gad = put (gadsc, z2.);
run;
```

TA230118 Feel Nervous, Anxious, On Edge

B23a. Over the last TWO WEEKS, how often have you been bothered by--Feeling nervous, anxious or on edge.

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b2var      B23a      B23b      B23c      B23d      B23e      B23f      B23g;
array b2varsc    B23asc    B23bsc    B23csc    B23dsc    B23esc    B23fsc    B23gsc;

gad = '00';
numb2var=0;
do over b2var;
    if b2var ne '9' then numb2var=numb2var+1;
    if b2var='9' then b2varsc=0;
    else b2varsc=b2var-1;
end;
if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;
gad = put(gadsc, z2.);
run;
```

B23b. Over the last TWO WEEKS, how often have you been bothered by--Not being able to stop or control worrying.

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are coded as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b2var    B23a    B23b    B23c    B23d    B23e    B23f    B23g;
array b2varsc  B23asc  B23bsc  B23csc  B23dsc  B23esc  B23fsc  B23gsc;

gad = '00';
numb2var=0;
do over b2var;
  if b2var ne '9' then numb2var=numb2var+1;
  if b2var='9' then b2varsc=0;
  else b2varsc=b2var-1;
end;
if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;
gad = put(gadsc,z2.);
run;
```

B23c. Over the last TWO WEEKS, how often have you been bothered by--Worrying too much about different things.

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are coded as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b2var    B23a    B23b    B23c    B23d    B23e    B23f    B23g;
array b2varsc  B23asc  B23bsc  B23csc  B23dsc  B23esc  B23fsc  B23gsc;

gad = '00';
numb2var=0;
do over b2var;
  if b2var ne '9' then numb2var=numb2var+1;
  if b2var='9' then b2varsc=0;
  else b2varsc=b2var-1;
end;

if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;
gad = put(gadsc,z2.);run;
```

B23d. Over the last TWO WEEKS, how often have you been bothered by--Trouble relaxing

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are coded as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
```

```
array b2var      B23a   B23b   B23c   B23d   B23e   B23f   B23g;
  array b2varsc  B23asc B23bsc B23csc B23dsc B23esc B23fsc B23gsc;
  gad = '00';
  numb2var=0;
  do over b2var;
    if b2var ne '9' then numb2var=numb2var+1;
    if b2var='9' then b2varsc=0;
    else b2varsc=b2var-1;
  end;
  if numb2var=0 then gadsc=99;
  else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;
  gad = put(gadsc, z2.);
run;
```

B23e. Over the last TWO WEEKS, how often have you been bothered by--Being so restless that it is hard to sit still

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are coded as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
```

```
array b2var      B23a   B23b   B23c   B23d   B23e   B23f   B23g;
  array b2varsc  B23asc B23bsc B23csc B23dsc B23esc B23fsc B23gsc;
  gad = '00';
  numb2var=0;
  do over b2var;
    if b2var ne '9' then numb2var=numb2var+1;
    if b2var='9' then b2varsc=0;
    else b2varsc=b2var-1;
  end;
  if numb2var=0 then gadsc=99;
  else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;
  gad = put(gadsc, z2.);
run;
```

TA230123 Easily Annoyed, Irritable

B23f. Over the last TWO WEEKS, how often have you been bothered by--Becoming easily annoyed or irritable

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are coded as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b2var      B23a      B23b      B23c      B23d      B23e      B23f      B23g;
array b2varsc   B23asc   B23bsc   B23csc   B23dsc   B23esc   B23fsc   B23gsc;
gad = '00';
numb2var=0;
do over b2var;
    if b2var ne '9' then numb2var=numb2var+1;
    if b2var='9' then b2varsc=0;
    else b2varsc=b2var-1;
end;
if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;

gad = put(gadsc,z2.);
run;
```

TA230124 Feel Afraid Something Awful Happen

B23g. Over the last TWO WEEKS, how often have you been bothered by--Feeling afraid as if something awful might happen

This variable is a component of the Generalized Anxiety Disorder (GAD-7) scale (TA232336). The scale includes these 7 items where higher scores are indicative of greater anxiety.

TA230118	B23a	Feel Nervous, Anxious, On Edge
TA230119	B23b	Unable To Stop/Control Worry
TA230120	B23c	Worry Too Much
TA230121	B23d	Trouble Relaxing
TA230122	B23e	Restless, Hard To Sit Still
TA230123	B23f	Easily Annoyed, Irritable
TA230124	B23g	Feel Afraid Something Awful Happen

Non-missing items are coded as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*-- scale scores have to be recoded from 1-4 to 0-3 --*;
```

```
array b2var B23a B23b B23c B23d B23e B23f B23g;
array b2varsc B23asc B23bsc B23csc B23dsc B23esc B23fsc B23gsc;
gad = '00';
numb2var=0;
do over b2var;
  if b2var ne '9' then numb2var=numb2var+1;
  if b2var='9' then b2varsc=0;
  else b2varsc=b2var-1;
end;
if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;

gad = put(gadsc,z2.);
run;
```

GENERALIZED ANXIETY DISORDER SCREENING (GAD7)

TA232337 Scale Score: Generalized Anxiety Disorder Screening (GAD7)

This categorical variable is generated from the Generalized Anxiety Disorder (GAD-7) Screening scale (TA232336) where higher scores are indicative of greater anxiety.

It is coded as:

- 1 0-4 Minimal anxiety
- 2 5-9 Mild Anxiety
- 3 10-14 Moderate Anxiety
- 4 15-21 Severe Anxiety

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from : Kroenke, K., Spitzer, R.L., Williams, J.B., Monahan, P.O. and Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine* 146(5), 317-325. <https://doi.org/10.7326/0003-4819-146-5-200703060-00004>

```
*-----Generalized Anxiety Disorder Screening (GAD)-----*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b2var      B23a      B23b      B23c      B23d      B23e      B23f      B23g;
array b2varsc    B23asc    B23bsc    B23csc    B23dsc    B23esc    B23fsc    B23gsc;

gad = '00';

numb2var=0;
do over b2var;
  if b2var ne '9' then numb2var=numb2var+1;
  if b2var='9' then b2varsc=0;
  else b2varsc=b2var-1;
end;

if numb2var=0 then gadsc=99;
else gadsc=B23asc+B23bsc+B23csc+B23dsc+B23esc+B23fsc+B23gsc;

gad = put(gadsc,z2.);
run;
gadcat='0';

*--- GAD categories ---*; (using GAD SCALE)
if '00' le gad le '04' then gadcat='1';
else if gad le '09' then gadcat='2';
else if gad le '14' then gadcat='3';
else if gad le '21' then gadcat='4';
else if gad='99' then gadcat='9';
run;
```

TA232338 Scale: PHQ-9 Depress Screen?

This scale is the sum of non-missing values for these 9 variables where higher scores are indicative of severe depression. After recoding, the range for this variable is 0-27.

- TA230108 B20a Little Interest Doing Things
- TA230109 B20b Feeling Down/Depressed/Hopeless
- TA230110 B20c Trouble Falling/Staying Asleep
- TA230111 B20d Feeling Tired, Little Energy
- TA230112 B20e Poor Appetite, Overeating
- TA230113 B20f Feeling Failure, Let Self Down
- TA230114 B20g Trouble Concentrating
- TA230115 B20h Move/Speak Slowly Or Fidgety
- TA230116 B20j Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. Journal of general internal medicine,16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```

*--PHQ depression screener--*
*--          scale scores have to be recoded from 1-4 to 0-3  --*;

array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc   B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;

phq = put (phqscore, z2.)
    
```

TA230108 Little Interest Doing Things

B20a. Over the last two weeks, how often have you been bothered by?--Little interest or pleasure in doing things

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc    B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;

phq = put(phqscore, z2.);
```

TA230109 Feeling Down/Depressed/Hopeless

B20b. Over the last two weeks, how often have you been bothered by?--Feeling down, depressed, or hopeless

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*-- scale scores have to be recoded from 1-4 to 0-3 --*;
array b3var B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00'; phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;

phq = put(phqscore,z2.);
```

B20c. Over the last two weeks, how often have you been bothered by?--Trouble falling or staying asleep, or sleeping too much

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc    B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;
phq = put(phqscore,z2.);
```

TA230111 Feeling Tired, Little Energy

B20d. Over the last two weeks, how often have you been bothered by?-- Feeling tired or having little energy

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;

array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc   B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;

if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;
phq = put (phqscore, z2.);
```

TA230112 Poor Appetite, Overeating

B20e. Over the last two weeks, how often have you been bothered by?--Poor appetite or overeating

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. Journal of general internal medicine,16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
```

```
*-- scale scores have to be recoded from 1-4 to 0-3 --*;
```

```
array b3var B20a B20b B20c B20d B20e B20f B20g B20h B20j;  
array b3varsc B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;  
phq = '00'; phqcat='0';  
numb3var=0;  
do over b3var;  
  if b3var ne '9' then numb3var=numb3var+1;  
  if b3var='9' then b3varsc=0;  
  else b3varsc=b3var-1;  
end;  
  
if numb3var=0 then phqscore=99;  
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;  
phq = put(phqscore,z2.);
```

TA230113 Feeling Failure, Let Self Down

B20f. Over the last two weeks, how often have you been bothered by?-- Feeling bad about yourself or that you are a failure or have let yourself or your family down

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc    B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;
phq = put(phqscore,z2.);
```

TA230114 Trouble Concentrating

B20g. Over the last two weeks, how often have you been bothered by?--Trouble concentrating on things, such as reading the newspaper or watching television

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc    B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;
phq = put(phqscore,z2.);
```

TA230115 Move/Speak Slowly Or Fidgety

B20h. Over the last two weeks, how often have you been bothered by?-- Moving or speaking so slowly that other people could have noticed, or the opposite, being so fidgety or restless that you have been moving around a lot more than usual

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc   B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;
phq = put(phqscore,z2.);
```

TA230116 Thinking Of Death Or Self Harm

B20j. Over the last two weeks, how often have you been bothered by?-- Thoughts that you would be better off dead or hurting yourself in some way

This variable is a component of the PHQ-9 Depression Screener (TA232338). The scale is the sum of the non-missing values for these 9 items where higher scores are indicative of more severe depression.

TA230108	B20a	Little Interest Doing Things
TA230109	B20b	Feeling Down/Depressed/Hopeless
TA230110	B20c	Trouble Falling/Staying Asleep
TA230111	B20d	Feeling Tired, Little Energy
TA230112	B20e	Poor Appetite, Overeating
TA230113	B20f	Feeling Failure, Let Self Down
TA230114	B20g	Trouble Concentrating
TA230115	B20h	Move/Speak Slowly Or Fidgety
TA230116	B20j	Thinking Of Death Or Self Harm

The items are scored as:

- 1 Not at all
- 2 Several days
- 3 More than half the days
- 4 Nearly everyday

For the scale they are recoded as:

- 0 Not at all
- 1 Several days
- 2 More than half the days
- 3 Nearly everyday

The generated scale includes the recoded values, while the individual items have not been recoded.

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```
*--PHQ depression screener--*
*--      scale scores have to be recoded from 1-4 to 0-3  --*;
array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc    B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;
phq = '00';  phqcat='0';
umb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;
if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;

phq = put(phqscore,z2.);
```

TA232339 Scale Score: PHQ-9 Depress Screener

This categorical variable is generated from the PHQ-9 Depression Scale (TA232338). It is scored as:

- 1 0–4 None-minimal
- 2 5–9 Mild depression
- 3 10–14 Moderate depression
- 4 15–19 Moderately severe depression
- 5 20–27 Severe depression

The source of the scale is from Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *Journal of general internal medicine*, 16(9), 606-613. DOI: [10.1046/j.1525-1497.2001.016009606.x](https://doi.org/10.1046/j.1525-1497.2001.016009606.x)

```

*--PHQ depression screener--*
*--          scale scores have to be recoded from 1-4 to 0-3  --*;

array b3var      B20a B20b B20c B20d B20e B20f B20g B20h B20j;
array b3varsc    B20asc B20bsc B20csc B20dsc B20esc B20fsc B20gsc B20hsc B20jsc;

phq = '00';  phqcat='0';

numb3var=0;
do over b3var;
  if b3var ne '9' then numb3var=numb3var+1;
  if b3var='9' then b3varsc=0;
  else b3varsc=b3var-1;
end;

if numb3var=0 then phqscore=99;
else phqscore = B20asc+B20bsc+B20csc+B20dsc+B20esc+B20fsc+B20gsc+B20hsc+B20jsc;

phq = put(phqscore,z2.);

*--- PHQ categories ---*;
if      0 le phqscore le 4 then phqcat='1';
else if 5 le phqscore le 9 then phqcat='2';
else if 10 le phqscore le 14 then phqcat='3';
else if 15 le phqscore le 19 then phqcat='4';
else if 20 le phqscore le 27 then phqcat='5';
else if phqscore=99 then phqcat='9';

run;

```

TA232340 Scale: Big 5-Conscientiousness

This scale is the sum of non-missing responses to these 3 items. Each item is scored on a continuum of 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230076 B19a Thorough Worker
 TA230082 B19g Somewhat Lazy (reversed)
 TA230086 B19l Effective/Efficient Complete Task

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
  *-- Only asked if not already asked in previous wave  --*;
    big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

    if b19ckpt='5' then do;
      array b4var    B19a  B19b  B19d  B19e  B19f  B19h  B19j  B19k  B19l  B19n
B19o  B19q;
      array b4varsc  B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
      do over b4var;
        if b4var='9' then b4varsc=0;
        else b4varsc=b4var;
      end;

      *--- reverse coding ---*;
      array b4Rvar   B19c  B19g  B19m  B19p;
      array b4Rvarsc B19csc B19gsc B19msc B19psc ;
      do over b4Rvar;
        if b4Rvar='9' then b4Rvarsc=0;
        else if b4Rvar='1' then b4Rvarsc=7;
        else if b4Rvar='2' then b4Rvarsc=6;
        else if b4Rvar='3' then b4Rvarsc=5;
        else if b4Rvar='4' then b4Rvarsc=4;
        else if b4Rvar='5' then b4Rvarsc=3;
        else if b4Rvar='6' then b4Rvarsc=2;
        else if b4Rvar='7' then b4Rvarsc=1;
      end;

      if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
      else big5cnscore=B19asc+B19gsc+B19lsc;
```

```
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19a. Next I'm going to read different qualities that a person can have.

On a scale from 1 to 7, where 1 means "does not describe me at all", and 7 means "describes me perfectly", please tell me how much each of the following statements describes you.—

First, "I am a thorough worker"

This variable is a component of a Big 5 Personality-Conscientiousness Scale (TA232340). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

```
TA230076  B19a  Thorough Worker
TA230082  B19g  Somewhat Lazy (reversed)
TA230086  B19l  Effective/Efficient Complete Task
```

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

if b19ckpt='5' then do;
  array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
  array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
  do over b4var;
    if b4var='9' then b4varsc=0;
    else b4varsc=b4var;
  end;

  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
```

```
end;

if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19g. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am somewhat lazy

This variable is a component of a Big 5 Personality-Conscientiousness Scale (TA232340). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230076 B19a Thorough Worker
 TA230082 B19g Somewhat Lazy (reversed)
 TA230086 B19l Effective/Efficient Complete Task

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19l. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am effective and efficient in completing tasks

This variable is a component of a Big 5 Personality-Conscientiousness Scale (TA232340). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230076 B19a Thorough Worker
 TA230082 B19g Somewhat Lazy (reversed)
 TA230086 B19l Effective/Efficient Complete Task

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave  --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;
```

```
  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

TA232341 Scale: Big 5-Agreeableness

This scale is the sum of non-missing responses to these 3 items. Each item is scored on a continuum of 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230078 B19c Sometimes Rude To Others (reversed)
 TA230081 B19f Forgiving
 TA230088 B19n Considerate/Kind To Others

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave  --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var      B19a  B19b  B19d  B19e  B19f  B19h  B19j  B19k  B19l  B19n
B19o  B19q;
    array b4varsc   B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar    B19c  B19g  B19m  B19p;
    array b4Rvarsc  B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;

    if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
    else big5cnscore=B19asc+B19gsc+B19lsc;
    big5cn=put(big5cnscore,z2.);
```

```
if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19c. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am sometimes a bit rude to others

This variable is a component of a Big 5 Personality-Agreeableness Scale (TA232341). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230078 B19c Sometimes Rude To Others (reversed)
 TA230081 B19f Forgiving
 TA230088 B19n Considerate/Kind To Others

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;
```

```
  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19f. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am forgiving

This variable is a component of a Big 5 Personality-Agreeableness Scale (TA232341). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230078 B19c Sometimes Rude To Others (reversed)
 TA230081 B19f Forgiving
 TA230088 B19n Considerate/Kind To Others

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
    B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
    B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;
```

```
  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19n. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am considerate and kind to others

This variable is a component of a Big 5 Personality-Agreeableness Scale (TA232341). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230078 B19c Sometimes Rude To Others (reversed)
 TA230081 B19f Forgiving
 TA230088 B19n Considerate/Kind To Others

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;
```

```
  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

TA232342 Scale: Big 5-Neuroticism

This scale is the sum of non-missing responses to these 3 items. Each item is scored on a continuum of 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230080 B19e Worrier
 TA230085 B19k Nervous
 TA230090 B19p Relaxed, Able To Deal W/Stress (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
  *-- Only asked if not already asked in previous wave  --*;
    big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

    if b19ckpt='5' then do;
      array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
      array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
      do over b4var;
        if b4var='9' then b4varsc=0;
        else b4varsc=b4var;
      end;

      *--- reverse coding ---*;
      array b4Rvar B19c B19g B19m B19p;
      array b4Rvarsc B19csc B19gsc B19msc B19psc ;
      do over b4Rvar;
        if b4Rvar='9' then b4Rvarsc=0;
        else if b4Rvar='1' then b4Rvarsc=7;
        else if b4Rvar='2' then b4Rvarsc=6;
        else if b4Rvar='3' then b4Rvarsc=5;
        else if b4Rvar='4' then b4Rvarsc=4;
        else if b4Rvar='5' then b4Rvarsc=3;
        else if b4Rvar='6' then b4Rvarsc=2;
        else if b4Rvar='7' then b4Rvarsc=1;
      end;

      if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
      else big5cnscore=B19asc+B19gsc+B19lsc;
```

```
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19e. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am a worrier

This variable is a component of a Big 5 Personality-Neuroticism Scale (TA232342). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230080 B19e Worrier
 TA230085 B19k Nervous
 TA230090 B19p Relaxed, Able To Deal W/Stress (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19k. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am nervous

This variable is a component of a Big 5 Personality-Neuroticism Scale (TA232342). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230080 B19e Worrier
 TA230085 B19k Nervous
 TA230090 B19p Relaxed, Able To Deal W/Stress (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19p. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am relaxed, able to deal with stress

This variable is a component of a Big 5 Personality-Neuroticism Scale (TA232342). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230080 B19e Worrier
 TA230085 B19k Nervous
 TA230090 B19p Relaxed, Able To Deal W/Stress (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

TA232343 Scale: Big 5-Extraversion

This scale is the sum of non-missing responses to these 3 items. Each item is scored on a continuum of 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230077 B19b Communicative, Talkative
 TA230083 B19h Outgoing, Sociable
 TA230087 B19m Reserved (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

if b19ckpt='5' then do;
  array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
  array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
  do over b4var;
    if b4var='9' then b4varsc=0;
    else b4varsc=b4var;
  end;

  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;

  if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
  else big5cnscore=B19asc+B19gsc+B19lsc;
```

```
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19b. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am communicative, talkative

This variable is a component of a Big 5 Personality-Extraversion Scale (TA232343). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230077 B19b Communicative, Talkative
 TA230083 B19h Outgoing, Sociable
 TA230087 B19m Reserved (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave  --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
  if b19ckpt='5' then do;
    array b4var      B19a  B19b  B19d  B19e  B19f  B19h  B19j  B19k  B19l  B19n
B19o  B19q;
    array b4varsc  B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;
```

```
  *--- reverse coding ---*;
  array b4Rvar  B19c  B19g  B19m  B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19h. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am outgoing, sociable

This variable is a component of a Big 5 Personality-Extraversion Scale (TA232343). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230077 B19b Communicative, Talkative
 TA230083 B19h Outgoing, Sociable
 TA230087 B19m Reserved (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19m. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?--I am outgoing, sociable

This variable is a component of a Big 5 Personality-Extraversion Scale (TA232343). The scale is the sum of non-missing responses to these 3 items. Each item is scored 1-7 resulting in a total score of 21 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230077 B19b Communicative, Talkative
 TA230083 B19h Outgoing, Sociable
 TA230087 B19m Reserved (reversed)

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;
```

```
  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

TA232344 Scale: Big 5-Openness

This scale is the sum of non-missing responses to these 4 items. Each item is scored on a continuum of 1-7 resulting in a total score of 28 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230079 B19d Original, Come Up W/New Ideas
 TA230084 B19j Value Artistic, Aesthetic Exper
 TA230089 B19o Imaginative
 TA230091 B19q Eager For Knowledg

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave  --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19d. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am original, someone who comes up with new ideas

This variable is a component of a Big 5 Personality-Openness Scale (TA232344). The scale is the sum of non-missing responses to these 4 items. Each item is scored 1-7 resulting in a total score of 28 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230079 B19d Original, Come Up W/New Ideas
 TA230084 B19j Value Artistic, Aesthetic Exper
 TA230089 B19o Imaginative
 TA230091 B19q Eager For Knowledg

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

--Big 5--

```
*-- Only asked if not already asked in previous wave  --*;
big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';
```

```
if b19ckpt='5' then do;
  array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
  array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
  do over b4var;
    if b4var='9' then b4varsc=0;
    else b4varsc=b4var;
  end;
```

```
*--- reverse coding ---*;
array b4Rvar B19c B19g B19m B19p;
array b4Rvarsc B19csc B19gsc B19msc B19psc ;
do over b4Rvar;
  if b4Rvar='9' then b4Rvarsc=0;
  else if b4Rvar='1' then b4Rvarsc=7;
  else if b4Rvar='2' then b4Rvarsc=6;
  else if b4Rvar='3' then b4Rvarsc=5;
  else if b4Rvar='4' then b4Rvarsc=4;
  else if b4Rvar='5' then b4Rvarsc=3;
  else if b4Rvar='6' then b4Rvarsc=2;
  else if b4Rvar='7' then b4Rvarsc=1;
end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19j. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am someone who values artistic, aesthetic experiences

This variable is a component of a Big 5 Personality-Openness Scale (TA232344). The scale is the sum of non-missing responses to these 4 items. Each item is scored 1-7 resulting in a total score of 28 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230079 B19d Original, Come Up W/New Ideas
 TA230084 B19j Value Artistic, Aesthetic Exper
 TA230089 B19o Imaginative
 TA230091 B19q Eager For Knowledg

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

if b19ckpt='5' then do;
  array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
  array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
  do over b4var;
    if b4var='9' then b4varsc=0;
    else b4varsc=b4var;
  end;

  *--- reverse coding ---*;
  array b4Rvar B19c B19g B19m B19p;
  array b4Rvarsc B19csc B19gsc B19msc B19psc ;
  do over b4Rvar;
    if b4Rvar='9' then b4Rvarsc=0;
    else if b4Rvar='1' then b4Rvarsc=7;
    else if b4Rvar='2' then b4Rvarsc=6;
    else if b4Rvar='3' then b4Rvarsc=5;
    else if b4Rvar='4' then b4Rvarsc=4;
    else if b4Rvar='5' then b4Rvarsc=3;
    else if b4Rvar='6' then b4Rvarsc=2;
    else if b4Rvar='7' then b4Rvarsc=1;
  end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19o. Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am imaginative

This variable is a component of a Big 5 Personality-Openness Scale (TA232344). The scale is the sum of non-missing responses to these 4 items. Each item is scored 1-7 resulting in a total score of 28 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230079 B19d Original, Come Up W/New Ideas
 TA230084 B19j Value Artistic, Aesthetic Exper
 TA230089 B19o Imaginative
 TA230091 B19q Eager For Knowledg

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
*-- Only asked if not already asked in previous wave --*;
  big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

  if b19ckpt='5' then do;
    array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
    array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
    do over b4var;
      if b4var='9' then b4varsc=0;
      else b4varsc=b4var;
    end;

    *--- reverse coding ---*;
    array b4Rvar B19c B19g B19m B19p;
    array b4Rvarsc B19csc B19gsc B19msc B19psc ;
    do over b4Rvar;
      if b4Rvar='9' then b4Rvarsc=0;
      else if b4Rvar='1' then b4Rvarsc=7;
      else if b4Rvar='2' then b4Rvarsc=6;
      else if b4Rvar='3' then b4Rvarsc=5;
      else if b4Rvar='4' then b4Rvarsc=4;
      else if b4Rvar='5' then b4Rvarsc=3;
      else if b4Rvar='6' then b4Rvarsc=2;
      else if b4Rvar='7' then b4Rvarsc=1;
    end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

B19q Next, we'll present qualities a person can have. Overall, how much does each of the following statements describe you?-- I am eager for knowledge

This variable is a component of a Big 5 Personality-Openness Scale (TA232344). The scale is the sum of non-missing responses to these 4 items. Each item is scored 1-7 resulting in a total score of 28 where higher scores are indicative of greater intensity of respondent agreement with each statement. Some items are reversed, as noted.

TA230079 B19d Original, Come Up W/New Ideas
 TA230084 B19j Value Artistic, Aesthetic Exper
 TA230089 B19o Imaginative
 TA230091 B19q Eager For Knowledg

Non-reversed items are scored as:

Does not describe me at all=1, 2, 3, 4, 5, 6 and Describes me perfectly =7.

Reversed items are scored as:

Does not describe me at all=7, 6, 5, 4, 3, 2 and Describes me perfectly =1.

The generated scale includes the reverse coding, while the individual items have not been recoded.

Values for this scale may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this scale.

Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48(1), 26.

<https://doi.org/10.1037/0003-066X.48.1.26>

```
*--Big 5--*
  *-- Only asked if not already asked in previous wave  --*;
    big5cn='97'; big5ag='97'; big5nr='97'; big5ex='97'; big5op='97';

    if b19ckpt='5' then do;
      array b4var B19a B19b B19d B19e B19f B19h B19j B19k B19l B19n
B19o B19q;
      array b4varsc B19asc B19bsc B19dsc B19esc B19fsc B19hsc B19jsc B19ksc B19lsc
B19nsc B19osc B19qsc;
      do over b4var;
        if b4var='9' then b4varsc=0;
        else b4varsc=b4var;
      end;

      *--- reverse coding ---*;
      array b4Rvar B19c B19g B19m B19p;
      array b4Rvarsc B19csc B19gsc B19msc B19psc ;
      do over b4Rvar;
        if b4Rvar='9' then b4Rvarsc=0;
        else if b4Rvar='1' then b4Rvarsc=7;
        else if b4Rvar='2' then b4Rvarsc=6;
        else if b4Rvar='3' then b4Rvarsc=5;
        else if b4Rvar='4' then b4Rvarsc=4;
        else if b4Rvar='5' then b4Rvarsc=3;
        else if b4Rvar='6' then b4Rvarsc=2;
        else if b4Rvar='7' then b4Rvarsc=1;
      end;
```

```
if (B19a='9' and B19g='9' and B19l='9') then big5cnscore=99;
else big5cnscore=B19asc+B19gsc+B19lsc;
big5cn=put(big5cnscore,z2.);

if (B19c='9' and B19f='9' and B19n='9') then big5agscore=99;
else big5agscore=B19csc+B19fsc+B19nsc;
big5ag=put(big5agscore,z2.);

if (B19e='9' and B19k='9' and B19p='9') then big5nrscore=99;
else big5nrscore=B19esc+B19ksc+B19psc;
big5nr=put(big5nrscore,z2.);

if (B19b='9' and B19h='9' and B19m='9') then big5exscore=99;
else big5exscore=B19bsc+B19hsc+B19msc;
big5ex=put(big5exscore,z2.);

if (B19d='9' and B19j='9' and B19o='9' and B19q='9') then big5opscore=99;
else big5opscore=B19dsc+B19jsc+B19osc+B19qsc;
big5op=put(big5opscore,z2.);
end;
```

TA232345 Scale: Childhood Aces-Parent 1

This scale is the sum of the values for the 3 subscales below that measure different domains of Adverse Childhood Experiences (ACEs). The scale ranges from 0-24 where higher scores are indicative of greater childhood adversity. This is the scale for Parent #1, who is identified in TA231985, TA231986 and TA231987.

- TA232346 Household Challenges subscale - Parent #1
- TA232347 Abuse subscale - Parent #1
- TA232348 Neglect subscale - Parent #1

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```
%score123(TA232045);
```

```
%score123(TA232046);
```

```
%score123(TA232047);
```

```
%score123(TA232048);
```

```
%score123(TA232049);
```

```
%score123(TA232050);
```

```
%score123(TA232051);
```

```
%score123(TA232052);
```

```

%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhhlvar=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneglvar=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

ADVERSE CHILDHOOD EXPERIENCES (ACES)

TA232346 Subscale: Aces-HH Challenges-Parent 1

This subscale includes 12 items where 1 point is added to the scale for each item where the non-missing response is other than "No" or "Never". This subscale along with the ACEs Abuse subscale (TA232347) and ACEs Neglect subscale (TA232348) make up the overall ACEs scale (TA232345) for Parent #1, who is identified in TA231985, TA231986 and TA231987.

TA231989	H35	Wtr Parent Had Anxiety - Parent #1
TA231994	H36	Wtr Parent Had Depress - Parent #1
TA231999	H37	Wtr Parent Had Al Prob - Parent #1
TA232004	H38	Wtr Parent Had Drug Prob - Parent #1
TA232009	H39	Wtr Parent Had Otr Cond - Parent #1
TA232015	H40	Wtr Time Served In Jail - Parent #1
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2

Non-missing values for these items are coded as:

- 1 Yes
- 5 No

TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

Non-missing values for these items are coded as:

- 1 Often
- 2 Sometimes
- 3 Not very often
- 4 Never

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
  array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
  array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
  array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
  numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

  numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```

numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);
%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneglvar=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H35. Now, let's talk about the person who spent the most time raising you. Before you were age 18, did (your/[your]) (mother/stepmother/other female relative/other female nonrelative/father/stepfather/other male relative/other male non-relative/this person) ever have problems with anxiety?--PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These items make the subscale for Parent #1.

TA231989	H35	Wtr Parent Had Anxiety - Parent #1
TA231994	H36	Wtr Parent Had Depress - Parent #1
TA231999	H37	Wtr Parent Had Al Prob - Parent #1
TA232004	H38	Wtr Parent Had Drug Prob - Parent #1
TA232009	H39	Wtr Parent Had Otr Cond - Parent #1
TA232015	H40	Wtr Time Served In Jail - Parent #1
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. American Journal of Preventive Medicine, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```

*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
    
```

```

%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H36. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person) ever have periods lasting 2 weeks or more where (she/he/he or she) was sad or depressed most of the time?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #1.

TA231989	H35	Wtr Parent Had Anxiety - Parent #1
TA231994	H36	Wtr Parent Had Depress - Parent #1
TA231999	H37	Wtr Parent Had Al Prob - Parent #1
TA232004	H38	Wtr Parent Had Drug Prob - Parent #1
TA232009	H39	Wtr Parent Had Otr Cond - Parent #1
TA232015	H40	Wtr Time Served In Jail - Parent #1
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```

%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA231999 Wtr Parent Had Al Prob - Parent #1

H37. (Before you were age 18,) was (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/ this person) a problem drinker or alcoholic?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

TA231989	H35	Wtr Parent Had Anxiety - Parent #1
TA231994	H36	Wtr Parent Had Depress - Parent #1
TA231999	H37	Wtr Parent Had Al Prob - Parent #1
TA232004	H38	Wtr Parent Had Drug Prob - Parent #1
TA232009	H39	Wtr Parent Had Otr Cond - Parent #1
TA232015	H40	Wtr Time Served In Jail - Parent #1
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then  
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;  
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```

%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H38. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/ this person) use illegal street drugs or abuse prescription medications?— PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These items make the subscale for Parent #1.

- TA231989 H35 Wtr Parent Had Anxiety - Parent #1
- TA231994 H36 Wtr Parent Had Depress - Parent #1
- TA231999 H37 Wtr Parent Had Al Prob - Parent #1
- TA232004 H38 Wtr Parent Had Drug Prob - Parent #1
- TA232009 H39 Wtr Parent Had Otr Cond - Parent #1
- TA232015 H40 Wtr Time Served In Jail - Parent #1
- TA232043 H42 Wtr Parents Sep/Divorced - Parent #1 and Parent #2
- TA232044 H43 How Often Parents Insult Each Other - Parent #1 and Parent #2
- TA232045 H44 How Often Parents Pushed Each Other - Parent #1 and Parent #2
- TA232046 H45 Parents Threw Things at Each Other - Parent #1 and Parent #2
- TA232047 H46 Parents Slapped Each Other - Parent #1 and Parent #2
- TA232048 H47 Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;

        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
```

```

%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H39. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person) ever have any other psychological, developmental or behavioral conditions?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #1.

TA231989	H35	Wtr Parent Had Anxiety - Parent #1
TA231994	H36	Wtr Parent Had Depress - Parent #1
TA231999	H37	Wtr Parent Had Al Prob - Parent #1
TA232004	H38	Wtr Parent Had Drug Prob - Parent #1
TA232009	H39	Wtr Parent Had Otr Cond - Parent #1
TA232015	H40	Wtr Time Served In Jail - Parent #1
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```

%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H40. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person) serve time or was (she/he/he or she) sentenced to serve time in a prison, jail, or other correctional facility?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #1.

TA231989	H35	Wtr Parent Had Anxiety - Parent #1
TA231994	H36	Wtr Parent Had Depress - Parent #1
TA231999	H37	Wtr Parent Had Al Prob - Parent #1
TA232004	H38	Wtr Parent Had Drug Prob - Parent #1
TA232009	H39	Wtr Parent Had Otr Cond - Parent #1
TA232015	H40	Wtr Time Served In Jail - Parent #1
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```

%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H42. Did (your/[your]) (mother/stepmother/other female relative/other female nonrelative/ father/stepfather/other male relative/other male non-relative/this person) and (your/[your]) (mother/stepmother/other female relative/other female nonrelative/father/stepfather/other male relative/other male non-relative/this person) separate or divorce during your childhood, that is, before you were 18?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```

%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H43. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the 2 people who raised you]) swear at each other, insult each other, or put each other down? Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```

%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhhlvar=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneglvar=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H44. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the 2 people who raised you]) push, grab, or shove each other?
Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then  
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;  
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H45. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the two people who raised you]) throw something at each other?
 Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.
 PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hh1var TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neg1var TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhh1var=0; do over hh1var; if hh1var not in ('0','9') then
numhh1var=numhh1var+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneg1var=0; do over neg1var; if neg1var ne '9' then numneg1var=numneg1var+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
```

```

%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232047 Parents Slapped Each Other - Parent #1 and Parent #2

H46. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/ other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the two people who raised you]) slap or hit each other?
Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
```

```

%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H47. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the two people who raised you]) physically harm each other in any other way?
 Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

- TA232043 H42 Wtr Parents Sep/Divorced - Parent #1 and Parent #2
- TA232044 H43 How Often Parents Insult Each Other - Parent #1 and Parent #2
- TA232045 H44 How Often Parents Pushed Each Other - Parent #1 and Parent #2
- TA232046 H45 Parents Threw Things at Each Other - Parent #1 and Parent #2
- TA232047 H46 Parents Slapped Each Other - Parent #1 and Parent #2
- TA232048 H47 Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
```

```

%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhhlvar=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneglvar=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232347 Subscale: Aces-Abuse-Parent 1

This subscale includes 5 items where 1 point is added to the scale for each item where the non-missing response is other than "Never". This subscale along with the ACEs Household Challenges subscale (TA232346) and the ACEs Neglect subscale (TA232348) make up the overall ACEs scale (TA232345) for Parent #1, who is identified in TA231985, TA231986 and TA231987.

TA232049	H48	How Often Parent Insult R - Parent #1
TA232050	H49	How Often Parent Pushed R - Parent #1
TA232051	H50	How Often Threw Things - Parent #1
TA232052	H51	How Often Slapped R - Parent #1
TA232053	H52	How Often Physically Harm - Parent #1

Non-missing values for these items are coded as:

- 1 Often
- 2 Sometimes
- 3 Not very often
- 4 Never

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from CDC-Kaiser ACEs Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```

*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);

```

```

%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232049 How Often Parent Insult R - Parent #1

H48. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) swear at you, insult you, or put you down?

Would you say often, sometimes, not very often, or never?--PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232347) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #1.

TA232049	H48	How Often Parent Insult R - Parent #1
TA232050	H49	How Often Parent Pushed R - Parent #1
TA232051	H50	How Often Threw Things - Parent #1
TA232052	H51	How Often Slapped R - Parent #1
TA232053	H52	How Often Physically Harm - Parent #1

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then  
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;  
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H49. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) push, grab, or shove you??

Would you say often, sometimes, not very often, or never?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232347) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #1.

TA232049	H48	How Often Parent Insult R - Parent #1
TA232050	H49	How Often Parent Pushed R - Parent #1
TA232051	H50	How Often Threw Things - Parent #1
TA232052	H51	How Often Slapped R - Parent #1
TA232053	H52	How Often Physically Harm - Parent #1

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232051 How Often Threw Things - Parent #1

H50. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) throw something at you?

Would you say often, sometimes, not very often, or never?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232347) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #1.

TA232049	H48	How Often Parent Insult R - Parent #1
TA232050	H49	How Often Parent Pushed R - Parent #1
TA232051	H50	How Often Threw Things - Parent #1
TA232052	H51	How Often Slapped R - Parent #1
TA232053	H52	How Often Physically Harm - Parent #1

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then  
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;  
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232052 How Often Slapped R - Parent #1

[TOC](#)

H51. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) slap or hit you?

Would you say often, sometimes, not very often, or never?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232347) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #1.

TA232049	H48	How Often Parent Insult R - Parent #1
TA232050	H49	How Often Parent Pushed R - Parent #1
TA232051	H50	How Often Threw Things - Parent #1
TA232052	H51	How Often Slapped R - Parent #1
TA232053	H52	How Often Physically Harm - Parent #1

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then  
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;  
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H52. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) physically harm you in any other way?

Would you say often, sometimes, not very often, or never?-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232347) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #1.

TA232049	H48	How Often Parent Insult R - Parent #1
TA232050	H49	How Often Parent Pushed R - Parent #1
TA232051	H50	How Often Threw Things - Parent #1
TA232052	H51	How Often Slapped R - Parent #1
TA232053	H52	How Often Physically Harm - Parent #1

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232348 Subscale: Aces-Neglect-Parent 1

This subscale includes 7 items where 1 point is added to the scale for each item where the non-missing response is other than code 3 or code 4. This subscale along with the ACEs Household Challenges subscale (TA232346) and the ACEs Abuse subscale (TA232347) make up the overall ACEs scale (TA232345) for Parent #1, who is identified in TA231985, TA231986 and TA231987.

TA232054 H53 How Close With Parent #1

Non-missing values for this item are coded as:

- 1 Very
- 2 Somewhat
- 3 Not very
- 4 Not at all

TA232055 H54 How Much Affection Given - Parent #1

TA232056 H55 How Much Parenting Effort - Parent #1

Non-missing values for these items are coded as:

- 1 A lot
- 2 Some
- 3 A little
- 4 Not at all

TA232065 H56 How Often Someone Care/Protect R - Parent #1 and Parent #2

TA232066 H57 How Often Someone Take To Doctor - Parent #1 and Parent #2

TA232067 H58 How Often Not Have Enough To Eat - Parent #1 and Parent #2

TA232068 H59 How Often No Safe Place To Stay - Parent #1 and Parent #2

Non-missing values for these items are coded as:

- 1 Often
- 2 Sometimes
- 3 Not very often
- 4 Never

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

---Adverse childhood experiences---

aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

if h29ackpt='2' then do;

array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;

array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;

```

array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhhlvar=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numablvar=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneglvar=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;

```

```
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;  
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;
```

```
aceshh_1 = put(aceshh_1sc,z2.);  
acesab_1 = put(acesab_1sc,1.);  
acesneg_1 = put(acesneg_1sc,1.);  
aces_1 = put(aces_1sc,z2.);
```

H53. (Before you were age 18), how emotionally close were you with (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the person who spent the most time raising you)? (Would you say very, somewhat, not very, or not at all?)-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 3 variables together with TA232065, TA232066, TA232067 and TA232068 make the subscale for Parent #1.

TA232054	H53	How Close With Parent #1
TA232055	H54	How Much Affection Given - Parent #1
TA232056	H55	How Much Parenting Effort - Parent #1

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
```

```

%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H54. (Before you were age 18), how much love and affection did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the person who spent the most time raising you) give you? (Would you say very, somewhat, not very, or not at all?)-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 3 variables together with TA232065, TA232066, TA232067 and TA232068 make the subscale for Parent #1.

TA232054	H53	How Close With Parent #1
TA232055	H54	How Much Affection Given - Parent #1
TA232056	H55	How Much Parenting Effort - Parent #1

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
```

```

%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H55. (Before you were age 18,) how much effort did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the person who spent the most time raising you) put into watching over you and making sure you had a good upbringing? (Would you say a lot, some, a little, or not at all?)-- PARENT 1, who is identified in TA231985, TA231986 and TA231987.

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 3 variables together with TA232065, TA232066, TA232067 and TA232068 make the subscale for Parent #1.

TA232054	H53	How Close With Parent #1
TA232055	H54	How Much Affection Given - Parent #1
TA232056	H55	How Much Parenting Effort - Parent #1

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```
*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
```

```

%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H56. Before you were age 18, how often was there someone to take care of you and protect you? Would you say often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H57. (Before you were age 18,) how often was there someone to take you to the doctor if you needed it?
(Would you say often, sometimes, not very often, or never?)

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```

*---Adverse childhood experiences---*
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';

    if h29ackpt='2' then do;

        array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
        array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
        array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;

        numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;

        numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
        numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA231989);
%score1(TA231994);
%score1(TA231999);
%score1(TA232004);
%score1(TA232009);
%score1(TA232015);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;

```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H58. (Before you were age 18,) how often did you not have enough to eat?
(Would you say often, sometimes, not very often, or never?)

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

H59. (Before you were age 18,) how often did you not have enough to eat?
(Would you say often, sometimes, not very often, or never?)

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_1='97'; acesab_1='8'; acesneg_1='8'; aces_1='97';
```

```
if h29ackpt='2' then do;
```

```
array hhlvar TA231989 TA231994 TA231999 TA232004 TA232009 TA232015 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ablvar TA232049 TA232050 TA232051 TA232052 TA232053;
```

```
array neglvar TA232054 TA232055 TA232056 TA232065 TA232066 TA232067 TA232068;
```

```
numhhlvar=0; do over hhlvar; if hhlvar not in ('0','9') then
numhhlvar=numhhlvar+1; end;
```

```
numablvar=0; do over ablvar; if ablvar ne '9' then numablvar=numablvar+1;
end;
```

```
numneglvar=0; do over neglvar; if neglvar ne '9' then numneglvar=numneglvar+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA231989);
```

```
%score1(TA231994);
```

```
%score1(TA231999);
```

```
%score1(TA232004);
```

```
%score1(TA232009);
```

```
%score1(TA232015);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232049);
%score123(TA232050);
%score123(TA232051);
%score123(TA232052);
%score123(TA232053);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232054);
%scoreneg(TA232055);
%scoreneg(TA232056);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 1 -----*;
*--- ACES HH challenges ---*;
if numhh1var=0 then aceshh_1sc=99;
else aceshh_1sc= TA231989sc+TA231994sc+ TA231999sc+TA232004sc+TA232009sc+
TA232015sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab1var=0 then acesab_1sc=9;
else acesab_1sc=TA232049sc+TA232050sc+TA232051sc+TA232052sc+TA232053sc;

*--- ACES neglect ---*;
if numneg1var=0 then acesneg_1sc=9;
else
acesneg_1sc=TA232054sc+TA232055sc+TA232056sc+TA232065sc+TA232066sc+TA232067sc+
TA232068sc;

*--- ACES total ---*;
if aceshh_1sc=99 or acesab_1sc=9 or acesneg_1sc=9 then aces_1sc=99;
else aces_1sc = aceshh_1sc + acesab_1sc + acesneg_1sc;

aceshh_1 = put(aceshh_1sc,z2.);
acesab_1 = put(acesab_1sc,1.);
acesneg_1 = put(acesneg_1sc,1.);
aces_1 = put(aces_1sc,z2.);

```

TA232349 Scale: Childhood Aces-Parent 2

This scale is the sum of the values for the 3 subscales below that measure different domains of Adverse Childhood Experiences (ACEs). The scale ranges from 0-24 where higher scores are indicative of greater childhood adversity. This is the scale for Parent #2, who is identified in TA231985, TA231986 and TA231988.

- TA232350 Household Challenges subscale - Parent #2
- TA232351 Abuse subscale - Parent #2
- TA232352 Neglect subscale - Parent #2

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
```

```
%score123(TA232044);
```

```
%score123(TA232045);
```

```
%score123(TA232046);
```

```
%score123(TA232047);
```

```
%score123(TA232048);
```

```
%score123(TA232057);
```

```
%score123(TA232058);
```

```
%score123(TA232059);
```

```
%score123(TA232060);
```

```

%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

ADVERSE CHILDHOOD EXPERIENCES (ACES)

TA23250Subscale: Aces-HH Challenges-Parent 2

This subscale includes 12 items where 1 point is added to the scale for each item where the non-missing response is other than "No" or "Never". This subscale along with the ACEs Abuse subscale (TA232351) and ACEs Neglect subscale (TA232352) make up the overall ACEs scale (TA232349) for Parent #2, who is identified in TA231985, TA231986 and TA231988.

TA232016	H35	Wtr Parent Had Anxiety - Parent #2
TA232021	H36	Wtr Parent Had Depress - Parent #2
TA232026	H37	Wtr Parent Had Al Prob - Parent #2
TA232031	H38	Wtr Parent Had Drug Prob - Parent #2
TA232036	H39	Wtr Parent Had Otr Cond - Parent #2
TA232042	H40	Wtr Time Served In Jail - Parent #2
TA232043	H42	Wtr Parents Sep/Divorced

Non-missing values for these items are coded as:

- 1 Yes
- 5 No

TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

Non-missing values for these items are coded as:

- 1 Often
- 2 Sometimes
- 3 Not very often
- 4 Never

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
  array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
    TA232044 TA232045 TA232046 TA232047 TA232048;
  array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
  array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
  numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;

  numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```

numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA232016);
%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H35. Now, let's talk about the person who spent the most time raising you. Before you were age 18, did (your/[your]) (mother/stepmother/other female relative/other female nonrelative/father/stepfather/other male relative/other male non-relative/this person) ever have problems with anxiety?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232350) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #2.

TA232016	H35	Wtr Parent Had Anxiety - Parent #2
TA232021	H36	Wtr Parent Had Depress - Parent #2
TA232026	H37	Wtr Parent Had Al Prob - Parent #2
TA232031	H38	Wtr Parent Had Drug Prob - Parent #2
TA232036	H39	Wtr Parent Had Otr Cond - Parent #2
TA232042	H40	Wtr Time Served In Jail - Parent #2
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```

%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232021 Wtr Parent Had Depress - Parent #2

H36. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person) ever have periods lasting 2 weeks or more where (she/he/he or she) was sad or depressed most of the time?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232350) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #2.

TA232016	H35	Wtr Parent Had Anxiety - Parent #2
TA232021	H36	Wtr Parent Had Depress - Parent #2
TA232026	H37	Wtr Parent Had Al Prob - Parent #2
TA232031	H38	Wtr Parent Had Drug Prob - Parent #2
TA232036	H39	Wtr Parent Had Otr Cond - Parent #2
TA232042	H40	Wtr Time Served In Jail - Parent #2
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then  
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;  
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```

%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H37. (Before you were age 18,) was (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/ this person) a problem drinker or alcoholic?-- PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232350) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #2

TA232016	H35	Wtr Parent Had Anxiety - Parent #2
TA232021	H36	Wtr Parent Had Depress - Parent #2
TA232026	H37	Wtr Parent Had AI Prob - Parent #2
TA232031	H38	Wtr Parent Had Drug Prob - Parent #2
TA232036	H39	Wtr Parent Had Otr Cond - Parent #2
TA232042	H40	Wtr Time Served In Jail - Parent #2
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```

%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H38. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/ this person) use illegal street drugs or abuse prescription medications?—PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232350) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These items make the subscale for Parent #2.

- TA232016 H35 Wtr Parent Had Anxiety - Parent #2
- TA232021 H36 Wtr Parent Had Depress - Parent #2
- TA232026 H37 Wtr Parent Had Al Prob - Parent #2
- TA232031 H38 Wtr Parent Had Drug Prob - Parent #2
- TA232036 H39 Wtr Parent Had Otr Cond - Parent #2
- TA232042 H40 Wtr Time Served In Jail - Parent #2
- TA232043 H42 Wtr Parents Sep/Divorced - Parent #1 and Parent #2
- TA232044 H43 How Often Parents Insult Each Other - Parent #1 and Parent #2
- TA232045 H44 How Often Parents Pushed Each Other - Parent #1 and Parent #2
- TA232046 H45 Parents Threw Things at Each Other - Parent #1 and Parent #2
- TA232047 H46 Parents Slapped Each Other - Parent #1 and Parent #2
- TA232048 H47 Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```
*---Adverse childhood experiences---*
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

if h29ackpt='2' then do;

    array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
        TA232044 TA232045 TA232046 TA232047 TA232048;
    array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
    array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

    numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;

    numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;

    numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA232016);
%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
```

```

%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H39. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person) ever have any other psychological, developmental or behavioral conditions?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232350) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #2.

TA232016	H35	Wtr Parent Had Anxiety - Parent #2
TA232021	H36	Wtr Parent Had Depress - Parent #2
TA232026	H37	Wtr Parent Had Al Prob - Parent #2
TA232031	H38	Wtr Parent Had Drug Prob - Parent #2
TA232036	H39	Wtr Parent Had Otr Cond - Parent #2
TA232042	H40	Wtr Time Served In Jail - Parent #2
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```

%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H40. (Before you were age 18,) did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person) serve time or was (she/he/he or she) sentenced to serve time in a prison, jail, or other correctional facility?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never".

These items make the subscale for Parent #2.

TA232016	H35	Wtr Parent Had Anxiety - Parent #2
TA232021	H36	Wtr Parent Had Depress - Parent #2
TA232026	H37	Wtr Parent Had Al Prob - Parent #2
TA232031	H38	Wtr Parent Had Drug Prob - Parent #2
TA232036	H39	Wtr Parent Had Otr Cond - Parent #2
TA232042	H40	Wtr Time Served In Jail - Parent #2
TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things at Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```

%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H42. Did (your/[your]) (mother/stepmother/other female relative/other female nonrelative/ father/stepfather/other male relative/other male non-relative/this person) and (your/[your]) (mother/stepmother/other female relative/other female nonrelative/father/stepfather/other male relative/other male non-relative/this person) separate or divorce during your childhood, that is, before you were 18?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things At Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```

%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H43. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the 2 people who raised you]) swear at each other, insult each other, or put each other down? Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things At Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. American Journal of Preventive Medicine, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```

%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H44. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the 2 people who raised you]) push, grab, or shove each other?
Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things At Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```

%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H45. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the two people who raised you]) throw something at each other?
Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things At Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```

%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232047 Parents Slapped Each Other- Parent #1 and Parent #2

H46. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the two people who raised you]) slap or hit each other?
Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

TA232043	H42	Wtr Parents Sep/Divorced - Parent #1 and Parent #2
TA232044	H43	How Often Parents Insult Each Other - Parent #1 and Parent #2
TA232045	H44	How Often Parents Pushed Each Other - Parent #1 and Parent #2
TA232046	H45	Parents Threw Things At Each Other - Parent #1 and Parent #2
TA232047	H46	Parents Slapped Each Other - Parent #1 and Parent #2
TA232048	H47	Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then  
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;  
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```

%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H47. (Before you were age 18, how often did [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/this person] and [your/[your]] [mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the two people who raised you]) physically harm each other in any other way?
 Would you say often, sometimes, not very often, or never?

If R says only one parent did this, PROBE: Would you say this happened often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Household Challenges Subscale (TA232346 for Parent #1 and TA23250 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 12 items where 1 point is added to the scale for each item unless the response is "No" or "Never". These variables together with TA231989, TA231994, TA231999, TA232004, TA232009 and TA232015 make the subscale for Parent #1, while these variables together with TA232016, TA232021, TA232026, TA232031, TA232036 and TA232042 make the subscale for Parent #2.

- TA232043 H42 Wtr Parents Sep/Divorced - Parent #1 and Parent #2
- TA232044 H43 How Often Parents Insult Each Other - Parent #1 and Parent #2
- TA232045 H44 How Often Parents Pushed Each Other - Parent #1 and Parent #2
- TA232046 H45 Parents Threw Things At Each Other - Parent #1 and Parent #2
- TA232047 H46 Parents Slapped Each Other - Parent #1 and Parent #2
- TA232048 H47 Parents Physically Harm Each Other - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.
 PARENT 2 is identified in TA231985, TA231986 and TA231988.

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

```
*---Adverse childhood experiences---*
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

    if h29ackpt='2' then do;

        array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
            TA232044 TA232045 TA232046 TA232047 TA232048;
        array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
        array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

        numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;

        numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
        numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;

        %macro score1(var);
            if &var.='1' then &var.sc=1; else &var.sc=0;
        %mend;
        %score1(TA232016);
        %score1(TA232021);
```

```

%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232351 Subscale: Aces-Abuse-Parent 2

This subscale includes 5 items where 1 point is added to the scale for each item where the non-missing response is other than "Never". This subscale along with the ACEs Household Challenges subscale (TA232350) and the ACEs Neglect subscale (TA232352) make up the overall ACEs scale (TA232349) for Parent #2, who is identified in TA231985, TA231986 and TA231988.

TA232057	H48	How Often Parent Insult R - Parent #2
TA232058	H49	How Often Parent Pushed R - Parent #2
TA232059	H50	How Often Threw Things - Parent #2
TA232060	H51	How Often Slapped R - Parent #2
TA232061	H52	How Often Physically Harm - Parent #2

Non-missing values for these items are coded as:

- 1 Often
- 2 Sometimes
- 3 Not very often
- 4 Never

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```

*---Adverse childhood experiences---*
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

    if h29ackpt='2' then do;

        array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
            TA232044 TA232045 TA232046 TA232047 TA232048;
        array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
        array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

        numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;

        numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
        numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;

        %macro score1(var);
            if &var.='1' then &var.sc=1; else &var.sc=0;
        %mend;
        %score1(TA232016);
        %score1(TA232021);
        %score1(TA232026);
        %score1(TA232031);
        %score1(TA232036);
        %score1(TA232042);
    
```

```

%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232057 How Often Parent Insult R - Parent #2

H48. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) swear at you, insult you, or put you down?

Would you say often, sometimes, not very often, or never?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232351) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #2.

TA232057	H48	How Often Parent Insult R - Parent #2
TA232058	H49	How Often Parent Pushed R - Parent #2
TA232059	H50	How Often Threw Things - Parent #2
TA232060	H51	How Often Slapped R - Parent #2
TA232061	H52	How Often Physically Harm - Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then  
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;  
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;  
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H49. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) push, grab, or shove you??

Would you say often, sometimes, not very often, or never?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232347) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #2.

TA232057	H48	How Often Parent Insult R - Parent #2
TA232058	H49	How Often Parent Pushed R - Parent #2
TA232059	H50	How Often Threw Things - Parent #2
TA232060	H51	How Often Slapped R - Parent #2
TA232061	H52	How Often Physically Harm - Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232059 How Often Threw Things - Parent #2

H50. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) throw something at you?

Would you say often, sometimes, not very often, or never?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232351) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #2.

TA232057	H48	How Often Parent Insult R - Parent #2
TA232058	H49	How Often Parent Pushed R - Parent #2
TA232059	H50	How Often Threw Things - Parent #2
TA232060	H51	How Often Slapped R - Parent #2
TA232061	H52	How Often Physically Harm - Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;  
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;  
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then  
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;  
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;  
end;
```

```
%macro score1(var);  
if &var.='1' then &var.sc=1; else &var.sc=0;  
%mend;
```

```
%score1(TA232016);  
%score1(TA232021);  
%score1(TA232026);  
%score1(TA232031);  
%score1(TA232036);  
%score1(TA232042);  
%score1(TA232043);
```

```
%macro score123(var);  
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;  
%mend;  
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232060 How Often Slapped R - Parent #2

H51. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) slap or hit you?

Would you say often, sometimes, not very often, or never?-- PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232351) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #2.

TA232057	H48	How Often Parent Insult R - Parent #2
TA232058	H49	How Often Parent Pushed R - Parent #2
TA232059	H50	How Often Threw Things - Parent #2
TA232060	H51	How Often Slapped R - Parent #2
TA232061	H52	How Often Physically Harm - Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043  
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then  
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;  
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;  
end;
```

```
%macro score1(var);  
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H52. Before you were age 18, how often did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male nonrelative/the person who spent the most time raising you) physically harm you in any other way?

Would you say often, sometimes, not very often, or never?--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of an Adverse Childhood Experiences (ACES) - Abuse Subscale (TA232351) where higher scores are indicative of greater adversity in childhood. The subscale includes 5 items where 1 point is added to the scale for each item unless the response is "Never". These variables make the subscale for Parent #2.

TA232057	H48	How Often Parent Insult R - Parent #2
TA232058	H49	How Often Parent Pushed R - Parent #2
TA232059	H50	How Often Threw Things - Parent #2
TA232060	H51	How Often Slapped R - Parent #2
TA232061	H52	How Often Physically Harm - Parent #2

CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```

%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232352 Subscale: Aces-Neglect-Parent 2

This subscale includes 7 items where 1 point is added to the scale for each item where the non-missing response is other than code 3 or code 4. This subscale along with the ACEs Household Challenges subscale (TA232350) and the ACEs Abuse subscale (TA232351) make up the overall ACEs scale (TA232349) for Parent 2, who is identified in TA231985, TA231986 and TA231988.

TA232062 H53 How Close With Parent #2

Non-missing values for this item are coded as:

- 1 Very
- 2 Somewhat
- 3 Not very
- 4 Not at all

TA232063 H54 How Much Affection Given - Parent #2

TA232064 H55 How Much Parenting Effort - Parent #2

Non-missing values for these items are coded as:

- 1 A lot
- 2 Some
- 3 A little
- 4 Not at all

TA232065 H56 How Often Someone Care/Protect R - Parent #1 and Parent #2

TA232066 H57 How Often Someone Take To Doctor - Parent #1 and Parent #2

TA232067 H58 How Often Not Have Enough To Eat - Parent #1 and Parent #2

TA232068 H59 How Often No Safe Place To Stay - Parent #1 and Parent #2

Non-missing values for these items are coded as:

- 1 Often
- 2 Sometimes
- 3 Not very often
- 4 Never

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

---Adverse childhood experiences---

aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

if h29ackpt='2' then do;

array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
 TA232044 TA232045 TA232046 TA232047 TA232048;
 array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;

```

array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;

numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA232016);
%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

```

```
*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2    = put(aces_2sc,z2.);
```

H53. (Before you were age 18), how emotionally close were you with (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the person who spent the most time raising you)? (Would you say very, somewhat, not very, or not at all?)--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232352) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 3 variables together with TA232065, TA232066, TA232067 and TA232068 make the subscale for Parent #2.

TA232062	H53	How Close With Parent #2
TA232063	H54	How Much Affection Given - Parent #2
TA232064	H55	How Much Parenting Effort - Parent #2

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```
*---Adverse childhood experiences---*
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

    if h29ackpt='2' then do;

array hh2var  TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
              TA232044 TA232045 TA232046 TA232047 TA232048;
    array ab2var  TA232057 TA232058 TA232059 TA232060 TA232061;
    array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

    numhh2var=0;    do over hh2var;    if hh2var not in ('0','9') then
numhh2var=numhh2var+1;    end;

    numab2var=0;    do over ab2var;    if ab2var ne '9' then numab2var=numab2var+1;
end;
    numneg2var=0;    do over neg2var;    if neg2var ne '9' then numneg2var=numneg2var+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA232016);
%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
```

```

%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H54. (Before you were age 18), how much love and affection did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the person who spent the most time raising you) give you? (Would you say very, somewhat, not very, or not at all?)--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232352) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 3 variables together with TA232065, TA232066, TA232067 and TA232068 make the subscale for Parent #2.

TA232062	H53	How Close With Parent #2
TA232063	H54	How Much Affection Given - Parent #2
TA232064	H55	How Much Parenting Effort - Parent #2

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```
*---Adverse childhood experiences---*
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

    if h29ackpt='2' then do;

array hh2var  TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
              TA232044 TA232045 TA232046 TA232047 TA232048;
    array ab2var  TA232057 TA232058 TA232059 TA232060 TA232061;
    array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

    numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;

    numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
    numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA232016);
%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
```

```

%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H55. (Before you were age 18,) how much effort did (your/[your]) (mother/stepmother/other female relative/other female non-relative/father/stepfather/other male relative/other male non-relative/the person who spent the most time raising you) put into watching over you and making sure you had a good upbringing? (Would you say a lot, some, a little, or not at all?)--PARENT 2, who is identified in TA231985, TA231986 and TA231988.

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232352) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 3 variables together with TA232065, TA232066, TA232067 and TA232068 make the subscale for Parent #2.

TA232062	H53	How Close With Parent #2
TA232063	H54	How Much Affection Given - Parent #2
TA232064	H55	How Much Parenting Effort - Parent #2

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score123(TA232044);
```

```
%score123(TA232045);
```

```
%score123(TA232046);
```

```
%score123(TA232047);
```

```

%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H56. Before you were age 18, how often was there someone to take care of you and protect you? Would you say often, sometimes, not very often, or never?

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H57. (Before you were age 18,) how often was there someone to take you to the doctor if you needed it?
(Would you say often, sometimes, not very often, or never?)

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

*---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H58. (Before you were age 18,) how often did you not have enough to eat?
(Would you say often, sometimes, not very often, or never?)

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

```
*---Adverse childhood experiences---*
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';

    if h29ackpt='2' then do;

        array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
            TA232044 TA232045 TA232046 TA232047 TA232048;
        array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
        array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;

        numhh2var=0;    do over hh2var;    if hh2var not in ('0','9') then
numhh2var=numhh2var+1;    end;

        numab2var=0;    do over ab2var;    if ab2var ne '9' then numab2var=numab2var+1;
end;
        numneg2var=0;    do over neg2var;    if neg2var ne '9' then numneg2var=numneg2var+1;
end;

%macro score1(var);
    if &var.='1' then &var.sc=1; else &var.sc=0;
%mend;
%score1(TA232016);
%score1(TA232021);
%score1(TA232026);
%score1(TA232031);
%score1(TA232036);
%score1(TA232042);
%score1(TA232043);

%macro score123(var);
    if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
%mend;
%score123(TA232044);
%score123(TA232045);
```

```

%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

H59. (Before you were age 18,) how often did you not have enough to eat?
(Would you say often, sometimes, not very often, or never?)

This variable is a component of the Adverse Childhood Experiences (ACES) – Neglect Subscale (TA232348 for Parent #1 and TA232352 for Parent #2) where higher scores are indicative of greater adversity in childhood. The subscale includes 7 items where 1 point is added to the scale if the non-missing value is 3 or 4. These 4 items together with TA232054, TA232055 and TA232056 make the subscale for Parent #1 while these 4 items together with TA232062, TA232063 and TA232064 make the subscale for Parent #2.

TA232065	H56	How Often Someone Care/Protect R - Parent #1 and Parent #2
TA232066	H57	How Often Someone Take To Doctor - Parent #1 and Parent #2
TA232067	H58	How Often Not Have Enough To Eat - Parent #1 and Parent #2
TA232068	H59	How Often No Safe Place To Stay - Parent #1 and Parent #2

PARENT 1 is identified in TA231985, TA231986 and TA231987.

PARENT 2 is identified in TA231985, TA231986 and TA231988.

The source of this scale is from CDC-Kaiser ACES Study, 1995-1997. Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. *American Journal of Preventive Medicine*, 14(4), 245-258. [https://doi.org/10.1016/S0749-3797\(98\)00017-8](https://doi.org/10.1016/S0749-3797(98)00017-8)

---Adverse childhood experiences---

```
aceshh_2='97'; acesab_2='8'; acesneg_2='8'; aces_2='97';
```

```
if h29ackpt='2' then do;
```

```
array hh2var TA232016 TA232021 TA232026 TA232031 TA232036 TA232042 TA232043
TA232044 TA232045 TA232046 TA232047 TA232048;
```

```
array ab2var TA232057 TA232058 TA232059 TA232060 TA232061;
```

```
array neg2var TA232062 TA232063 TA232064 TA232065 TA232066 TA232067 TA232068;
```

```
numhh2var=0; do over hh2var; if hh2var not in ('0','9') then
numhh2var=numhh2var+1; end;
```

```
numab2var=0; do over ab2var; if ab2var ne '9' then numab2var=numab2var+1;
end;
```

```
numneg2var=0; do over neg2var; if neg2var ne '9' then numneg2var=numneg2var+1;
end;
```

```
%macro score1(var);
```

```
if &var.='1' then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```
%score1(TA232016);
```

```
%score1(TA232021);
```

```
%score1(TA232026);
```

```
%score1(TA232031);
```

```
%score1(TA232036);
```

```
%score1(TA232042);
```

```
%score1(TA232043);
```

```
%macro score123(var);
```

```
if &var. in ('1','2','3') then &var.sc=1; else &var.sc=0;
```

```
%mend;
```

```

%score123(TA232044);
%score123(TA232045);
%score123(TA232046);
%score123(TA232047);
%score123(TA232048);
%score123(TA232057);
%score123(TA232058);
%score123(TA232059);
%score123(TA232060);
%score123(TA232061);

%macro scoreneg(var);
    if &var. in ('3','4') then &var.sc=1; else &var.sc=0;
%mend;
%scoreneg(TA232062);
%scoreneg(TA232063);
%scoreneg(TA232064);
%scoreneg(TA232065);
%scoreneg(TA232066);
%scoreneg(TA232067);
%scoreneg(TA232068);

*-----Parent 2 -----*;
*--- ACES HH challenges ---*;
if numhh2var=0 then aceshh_2sc=99;
else aceshh_2sc= TA232016sc+ TA232021sc+ TA232026sc+ TA232031sc+ TA232036sc+
TA232042sc+TA232043sc+TA232044sc+TA232045sc+TA232046sc+TA232047sc+TA232048sc;

*--- ACES abuse ---*;
if numab2var=0 then acesab_2sc=9;
else acesab_2sc= TA232057sc+ TA232058sc+ TA232059sc+ TA232060sc+ TA232061sc;

*--- ACES neglect ---*;
if numneg2var=0 then acesneg_2sc=9;
else acesneg_2sc=
TA232062sc+TA232063sc+TA232064sc+TA232065sc+TA232066sc+TA232067sc+TA232068sc;

*--- ACES total ---*;
if aceshh_2sc=99 or acesab_2sc=9 or acesneg_2sc=9 then aces_2sc=99;
else aces_2sc = aceshh_2sc + acesab_2sc + acesneg_2sc;

aceshh_2 = put(aceshh_2sc,z2.);
acesab_2 = put(acesab_2sc,1.);
acesneg_2 = put(acesneg_2sc,1.);
aces_2 = put(aces_2sc,z2.);

```

TA232353 Scale: Loneliness

This scale is composed of 3 items where higher scores are indicative of greater levels of loneliness. It is the sum of non-missing values for these 3 items.

TA232228	K28	How Often Lack Companionship
TA232229	K29	How Often Feel Left Out
TA232230	K30	How Often Feel Isolated

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from Russell, D , Peplau, L. A.. & Ferguson, M. L. (1978). Developing a measure of loneliness. *Journal of Personality Assessment*, 42, 290-294. https://doi.org/10.1207/s15327752jpa4203_11

```
*---- Loneliness ----*;
loneliness='00';

array k1var    k28    k29    k30;
array k1varsc k28sc k29sc k30sc;

numk1var=0;
do over k1var;
  if k1var ne '9' then numk1var=numk1var+1;
  if k1var='9' then k1varsc=0;
  else k1varsc=k1var;
end;

if numk1var=0 then loneliness='99';
else loneliness=k28sc+k29sc+k30sc;
run;
```

K28. How often do you feel that you lack companionship?
Would you say hardly ever, some of the time, or often?

This variable is a component of the Loneliness Scale (TA232353). The scale includes these 3 items where higher scores are indicative of greater loneliness.

TA232228	K28	How Often Lack Companionship
TA232229	K29	How Often Feel Left Out
TA232230	K30	How Often Feel Isolated

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from Russell, D, Peplau, L. A.. & Ferguson, M. L. (1978). Developing a measure of loneliness. *Journal of Personality Assessment*, 42, 290-294. https://doi.org/10.1207/s15327752jpa4203_11

```
*----- Loneliness -----*;
loneliness='00';

array k1var    k28    k29    k30;
array k1varsc k28sc k29sc k30sc;

numk1var=0;
do over k1var;
  if k1var ne '9' then numk1var=numk1var+1;
  if k1var='9' then k1varsc=0;
  else k1varsc=k1var;
end;

if numk1var=0 then loneliness='99';
else loneliness=k28sc+k29sc+k30sc;
run;
```

K29. How often do you feel that you lack companionship?
Would you say hardly ever, some of the time, or often?

This variable is a component of the Loneliness Scale (TA232353). The scale includes these 3 items where higher scores are indicative of greater loneliness.

TA232228	K28	How Often Lack Companionship
TA232229	K29	How Often Feel Left Out
TA232230	K30	How Often Feel Isolated

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from Russell, D , Peplau, L. A.. & Ferguson, M. L. (1978). Developing a measure of loneliness. *Journal of Personality Assessment*, 42, 290-294. https://doi.org/10.1207/s15327752jpa4203_11

```
*----- Loneliness -----*;
loneliness='00';

array k1var    k28    k29    k30;
array k1varsc k28sc k29sc k30sc;

numk1var=0;
do over k1var;
  if k1var ne '9' then numk1var=numk1var+1;
  if k1var='9' then k1varsc=0;
  else k1varsc=k1var;
end;

if numk1var=0 then loneliness='99';
else loneliness=k28sc+k29sc+k30sc;
run;
```

K30. How often do you feel isolated from others?
Would you say hardly ever, some of the time, or often?

This variable is a component of the Loneliness Scale (TA232353). The scale includes these 3 items where higher scores are indicative of greater loneliness.

TA232228	K28	How Often Lack Companionship
TA232229	K29	How Often Feel Left Out
TA232230	K30	How Often Feel Isolated

Values for this variable may not be based on all of these questions. Items containing "don't know" and "refused" responses, are not included in the calculation of this variable.

The source of this scale is from Russell, D, Peplau, L. A.. & Ferguson, M. L. (1978). Developing a measure of loneliness. *Journal of Personality Assessment*, 42, 290-294. https://doi.org/10.1207/s15327752jpa4203_11

```
*----- Loneliness -----*;
loneliness='00';

array k1var    k28    k29    k30;
array k1varsc k28sc k29sc k30sc;

numk1var=0;
do over k1var;
  if k1var ne '9' then numk1var=numk1var+1;
  if k1var='9' then k1varsc=0;
  else k1varsc=k1var;
end;

if numk1var=0 then loneliness='99';
else loneliness=k28sc+k29sc+k30sc;
run;
```