

## Psychosocial Scales for PIN 1 & 2 Data

The following are scales developed from the self-administered PIN Life Events Questionnaire, started in November 1996, and administered through the PIN 2 cohort, with pregnancies that began between April 1996 and August 2000. The scales are based on the scale development instructions provided by the developer of the scale, or are a construct based on how such scales have been developed in the literature.

The following documentation is based on the full data set of N=2029 and uses master files that have had missing values imputed if < 10% of the items in the scale are missing. Imputed values computed as the mean value for the item among non-missing responses. Only some scales have imputed values because they have more than 10 items and therefore can reach the 10% threshold.

Information about and citations for the source of these scales can be found at:  
[www.cpc.unc.edu/projects/pin/docs\\_12/leq.pdf](http://www.cpc.unc.edu/projects/pin/docs_12/leq.pdf).

The constructed SAS file is: \prom\data\sas\le\lescomp.xmn. (a SAS transport file).

<b>Sarason's Life Experiences Scale</b>		
Women were asked to indicate whether they had experienced up to 39 events plus up to 2 open-ended responses. Scales include "count" variables that do a count of events reported as happening. If they experienced the event, respondents were asked to rate its impact on a -3 to 0 to +3 scale. The "impact" variables assess these responses and are considered perceptions of stress.		
NOTE: Missing values were imputed if <10 of items on the overall scale.		
lepos_s	Life events: Sum of positive impact values	range: 0 to 60
lepos_c	Life events: Count of positive values	range: 0 to 20
leneg_s	Life events: Sum of negative impact values	range: -55 to 0
leneg_a	Life events: Sum of negative impact values in absolute values	range: 0 to 55
leneg_c	Life events: Count of negative values	range: 0 to 23
lezero_c	Life events: Count of zero values	range: 0 to 18
letot_s	Life events: Sum of pos & neg abs impact values	range: 0 to 60
letot_c	Life events: Count of all values (+,-,0)	range: 0 - 28
letot_r	Life events: Sum of pos & neg raw impact values [positive and negative counter balance in the sum]	range: -52 to 60
les_neg	Life events neg impact, categorical	1 = > 10.0 2 = 5 - < 10 3 = 2 - < 5 4 = 0 - < 2 (ref.)
les_negc	Life events negative counts, categorical	1 = >9 2 = >6 - 9 3 = >3 - 6 4 = 0 - 3 (ref.)

les_tot	Life events pos & neg impact, categorical	1 = 18+ 2 = 11.0 - < 18.0 3 = >5.0 - < 11.0 4 = 0 - 5.0 (ref.)
les_totc	Life events pos+neg+zero counts, categor	1 = >9 2 = >6 - 9 3 = >3 - 6 4 = 0 - 3 (ref.)

<b>Pregnancy-related Anxiety</b> – based on six questions taken from Suezanne Orr’s Prenatal Social Environment Inventory. Scoring is similar to the Life Experiences Scale above (which is different from Orr’s original PSEI approach).		
ormneg_a	Preg anxiety, abs val sum of neg value	range: 0 to 18
ormneg_c	Preg anxiety, count of negative values	range: 0 to 6
ormneg_s	Preg anxiety, sum of negative values	range: -18 to 0
orrpos_c	Preg anxiety, count of positive values	range: 0 to 6
orrpos_s	Preg anxiety, sum of positive values	range: 0 to 18
ortot_c	Preg anxiety, count regardless of impact	range: 0 to 6
ortot_r	Preg anxiety sum of pos & neg raw values	range: -18 to 18
ortot_s	Preg anxiety sum of pos & neg abs values	range: 0 to 18
orzero_c	Preg anxiety count of zero values	range: 0 to 6
orr_totc	sum of all counts of pregnancy anxiety items	1 = 5+ 2 = 3 - <5 3 = 0 - <3 (ref.)
orr_negc	sum of negative counts of pregnancy anxiety items	1 = 4+ 2 = 2-3 3 = 0-1 (ref.)
orr_tots	sum of all impacts of pregnancy anxiety items	1 = 5+ 2 = 3 - <6 3 = 0 - <3 (ref.)
orr_negs	sum of all impacts of pregnancy anxiety items	1 = >4 2 = 2-4 3 = 0-1 (ref.)

## MOS Social Support Scale

The first three variables are counts of relatives and/or friends the woman identified.

The remaining 19 items in the questionnaire are scaled into a composite (ss\_total) and four subscales outlined by Sherbourne and Stewart:

- tangible or instrumental support (items 3, 6, 13, and 16)
- affectionate (items 7, 11, 21)
- positive social interaction, including companionship in leisure and other recreational activities (items 8, 12, 19)
- a combination category of emotional/informational support, including love and empathy, and providing feedback and guidance (items 4, 5, 9, 10, 14, 17, 18, 20).

NOTE: The response values in the LEQ are 1-5. Missing values were imputed if <10 of items on the overall scale.

ss_relfr	Soc sup: Sum of the relatives & friends	range: 0 to 55
ss_relat	Soc sup: Number of relatives	range: 0 to 50
ss_frend	Soc sup: Number of friends	range: 0 to 40
ss_total	Soc sup: Sum of the support available	range: 19 to 95
ss_tangi	Soc sup: Tangible support sub-scale (items 3, 6, 13, 16)	range: 4 to 20
ss_affec	Soc sup: Affectionate support sub-scale (items 7, 11, 21)	range: 3 to 15
ss_inter	Soc sup: Soc interact support sub-scale (items 8, 12, 19)	range: 3 to 15
ss_combo	Soc sup: Combined support sub-scale (items 4, 5, 9, 10, 14, 17, 18, 20)	range: 8 to 40
ss_cat	Social support sum, categorical (based on ss_total)	1 = 19 - < 66.0 2 = > 66 - < 80.0 3 = 80 - < 90.0 4 = 90+ (ref.)

**CES-Depression Scale**

NOTE: The response values in the LEQ are 1-4. These are re-coded for the scales to 0-3 to be consistent with other uses of this scale in the literature.

Missing values were imputed if <10 of items on the overall scale.

ces_scor	CES-D summary score (includes reverse coding of items 4, 8, 12, and 16)	range: 0-57
ces_cat	CES-D categorical	1 = 25+ 2 = 17 - < 25 3 = 0 - < 17 (ref.)

**Racial and Gender Discrimination**

gendiscr	Krieger's gender discrimination scale	range: 0 to 4
gend_cat	Krieger's gender discrim, categorical	1 = > 1 2 = 1 3 = 0 (ref.)
racdiscr	Krieger's racial discrimination scale	range: 0 to 5
race_cat	Krieger's racial discrim, categorical	1 = > 1 2 = 1 3 = 0 (ref.)

**Neighborhood Safety Scale**

Scale is sum of items LEE8 through LEE14, based on recommendations of Irva Hertz-Picciotto (developer of the scale) and Jeff Korte. They also recommended the category cutpoints.

nhood	Neighborhood safety, sum of items	range: 7 to 32
nhood_c	Neighborhood safety, categorical	1 = 14+ 2 = 10 - <14 3 = <10 (ref.)

## Ways of Coping Questionnaire

The 66 items are scaled into the eight subscales outlined by the WCQ documentation by Folkman and Lazarus, and raw scores and relative scores are constructed. “Raw scores describe coping effort for each of the eight types of coping, whereas relative scores describe the proportion of effort represented by each type of coping.” (p.15) Relative scores “control for the unequal numbers of items within the scales and for individual differences in response rates.”

The way we framed the WCQ in the PIN Study results in our getting coping traits or dispositions rather than the recommended WCQ of asking the respondent to focus on a specific stressful event in the past week and to get a measure of coping processes. Folkman and Lazarus say “The major weakness of trait measures of coping is that they tend to underestimate the complexity and variability of actual coping processes” and doesn’t measure the multidimensional aspects of coping and its dependence on the nature of the stressful event.

NOTE: The response values in the LEQ are 1-4. These are re-coded for the scales to 0-3 to be consistent with other uses of this scale in the literature.

coconf_r	Coping: Confrontive (raw) (items 6, 7, 17, 28, 34, 46)  <i>Confrontive coping: describes aggressive efforts to alter the situation and suggests some degree of hostility and risk-taking.</i>	range: 0 to 18
codist_r	Coping: Distancing (raw) (items 12, 13, 15, 21, 41, 44)  <i>Distancing: describes cognitive efforts to detach oneself and to minimize the significance of the situation.</i>	range: 0 to 18
coself_r	Coping: Self-Controlling (raw) (items 10, 14, 35, 43, 54, 62, 63)  <i>Self-controlling: describes efforts to regulate one’s feelings and actions.</i>	range: 0 to 21
coseek_r	Coping: Seek Social Support(raw) (items 8, 18, 22, 31, 42, 45)  <i>Seeking social support: describes efforts to seek informational support, tangible support, and emotional support.</i>	range: 0 to 18
coacct_r	Coping: Accept Responsibility (raw) (items 9, 25, 29, 51)  <i>Accepting responsibility: acknowledges one’s own role in the problem with a concomitant theme of trying to put things right.</i>	range: 0 to 12
coescp_r	Coping: Escape-Avoidance (raw) (items 11, 16, 33, 40, 47, 50, 58, 59)  <i>Escape-avoidance: describes wishful thinking and behavioral efforts to escape or avoid the problem. Items on this scale contrast with those on the Distancing scale, with suggest detachment.</i>	range: 0 to 24

coplan_r	Coping: Planful Prob. Solving (raw) (items 1, 26, 39, 48, 49, 52)  <i>Planful problem solving: describes deliberate problem-focused efforts to alter the situation, coupled with an analytic approach to solving the problem.</i>	range: 0 to 18
coreap_r	Coping: Positive Reappraisal (raw) (items 20, 23, 30, 36, 38, 56, 60)  <i>Positive reappraisal: describes efforts to create positive meaning by focusing on personal growth. It also has a religious dimension.</i>	range: 0 to 21
The following use the relative scoring rather than the raw sum scoring.		
coconf_l	Coping: Confrontive (relative)	range: 0 to 40
codist_l	Coping: Distancing (relative)	range: 0 to 42.55
coself_l	Coping: Self-Controlling (relative)	range: 0 to 42.35
coseek_l	Coping: Seek Social Support (relative)	range: 0 to 62.69
coacpt_l	Coping: Accept Responsibility (relative)	range: 0 to 30.11
coescp_l	Coping: Escape-Avoidance (relative)	range: 0 to 60
coplan_l	Coping: Planful Prob. Solving (relative)	range: 0 to 41.11
coreap_l	Coping: Positive Reappraisal (relative)	range: 0 to 100
The following are the categorical form of the subscales.		
coconf_c	Coping: Confrontive, categorical	1 = > 14.01 2 = <11.52 - 14.01 3 = <9.05 - 11.52 4 = 0 - 9.05 (ref.)
codist_c	Coping: Distancing, categorical	1 = <13.56 2 = <10.77 - 13.56 3 = <7.83 - 10.77 4 = 0 - 7.83 (ref.)
coself_c	Coping: Self-Controlling, categorical	1 = <15.99 2 = <13.7 - 15.99 3 = <11.37 - 13.7 4 = 0-11.37 (ref.)
coseek_c	Coping: Seek Social Support, categorical	1 = <17.28 2 =< 14.0 - 17.28 3 = <10.72 - 14.0 4 = 0 - 10.72 (ref.)

coactp_c	Coping: Accept Responsibility, categorical	1 = < 14.5 2 = <11.86 - 14.5 3 = <8.72 - 11.86 4 = 0 - 8.72 (ref.)
coescp_c	Coping: Escape-Avoidance, categorical	1 = <13.0 2 = <9.69 - 13.0 3 = <6.34 - 9.69 4 = 0 - 6.34 (ref.)
coplan_c	Coping: Planful Prob. Solving, categorical	1 = <17.16 2 = <14.24 - 17.16 3 = <11.61 - 14.24 4 = 0 - 11.61 (ref.)
coreap_c	Coping: Positive Reappraisal, categorical	1 = <16.26 2 = <13.56 - 16.26 3 = <11.04 - 13.56 4 = 0 - 11.04 (ref.)