

DEPRESSION

A brief guide to the PROMIS® Depression instruments:

ADULT	ADULT CANCER	PEDIATRIC	PARENT PROXY
PROMIS Item Bank v1.0 – Depression PROMIS Short Form v1.0 – Depression 4a PROMIS Short Form v1.0 – Depression 6a PROMIS Short Form v1.0 – Depression 8a PROMIS Short Form v1.0 – Depression 8b	PROMIS-Ca Bank v1.0 – Depression	PROMIS Pediatric Item Bank v2.0 – Depressive Symptoms PROMIS Pediatric Item Bank v1.1 – Depressive Symptoms* PROMIS Pediatric Item Bank v1.0 – Depressive Symptoms* PROMIS Pediatric Short Form v2.0 – Depressive Symptoms 8a PROMIS Pediatric Short Form v1.1 – Depressive Symptoms 8b* PROMIS Pediatric Short Form v1.0 – Depressive Symptoms 8a*	PROMIS Parent Proxy Item Bank v2.0 – Depressive Symptoms PROMIS Parent Proxy Item Bank v1.1 – Depressive Symptoms* PROMIS Parent Proxy Item Bank v1.0 – Depressive Symptoms* PROMIS Parent Proxy Short Form v2.0 – Depressive Symptoms 6a PROMIS Parent Proxy Short Form v1.1 – Depressive Symptoms 6b* PROMIS Parent Proxy Short Form v1.0 – Depressive Symptoms 6a*

*Retired measure

ABOUT DEPRESSION

The PROMIS Depression item banks assess self-reported negative mood (sadness, guilt), views of self (self-criticism, worthlessness), and social cognition (loneliness, interpersonal alienation), as well as decreased positive affect and engagement (loss of interest, meaning, and purpose). Somatic symptoms (changes in appetite, sleeping patterns) are not included, which eliminates consideration of these items' confounding effects when assessing patients with comorbid physical conditions. The depression short forms are universal rather than disease-specific. All assess depression over the past seven days.

Depression instruments are available for adults (ages 18+), pediatric self-report (ages 8-17) and for parents serving as proxy reporters for their child (youth ages 5-17).

INTRODUCTION TO ASSESSMENT OPTIONS

There are two administration options for assessing depression: short forms and computerized adaptive test (CAT). When administering a short form, instruct participants to answer all of the items (i.e., questions or statements) presented. With a CAT, participant responses guide the system's choice of subsequent items from the full item bank (28 items in total for adults). Although items differ across respondents taking a CAT, scores are comparable across participants.

Some administrators may prefer to ask the same question of all respondents or of the same respondent over time, to enable a more direct comparability across people or time. In these cases, or when paper administration is preferred, a short form would be more desirable than a CAT. This guide provides information on all depression short form and CAT instruments.

Whether one uses a short form or CAT, the score metric is Item Response Theory (IRT), a family of statistical models that link individual questions to a presumed underlying trait or concept of depression represented by all items in the item bank. When choosing between a CAT and short form, it is useful to consider the demands of computer-based assessment, and the psychological, physical, and cognitive burden placed on respondents as a result of the number of questions asked.

Figure 1 illustrates the correlations (strength of relationship) of the full bank with a CAT and with short forms of varying length. The correlation of CAT scores with the full bank score is greater than a short form of any length. A longer CAT or longer short form offers greater correlation, as well as greater precision. When evaluating precision, not all questions are equally informative. The flexibility of a CAT to choose more informative questions offers more precision.

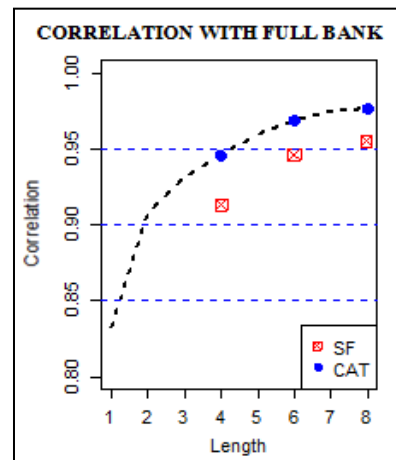


Figure 1

VERSION DIFFERENCES

Some PROMIS domains have multiple versions of instruments (i.e. v1.0, v1.1, v2.0). Generally, **it is recommended that you use the most recent version available which can be identified as the instrument with the highest version number.** In most cases, an instrument that has a decimal increase (v1.0 to v1.1) retains the same item-level parameters as well as instrument reliability and validity. In cases where a version number increases by a whole number (e.g., v1.0 to v2.0), the changes to the instrument are more substantial.

For depression, v2.0 pediatric and parent proxy measures replaced v1.0/v1.1. The v2.0 measures 1) changed from using response scores of 0-4 to use 1-5 (item IDs amended with an “r”) and 2) added new items (item IDs start with 7000). The calibrations between v1.0, v1.1, and v2.0 are identical. The pediatric and parent proxy v1.1 item bank existed briefly – they eliminated one item from the original v1.0 banks. This affected the 8-item short forms as well; the v1.0 and v1.1 short forms have slightly different items included. The v1.1 short form 8b and v2.0 short form 8a include the same items but have different response scores.

DIFFERENCES IN CURRENTLY AVAILABLE SHORT FORMS

Adult Profile Short Forms

You will notice that there are 4 depression short forms for adults. Items in the 4a, 6a, and 8a short forms were selected based on rankings using two psychometric criteria: 1) maximum interval information; and 2) CAT simulations. Item rankings were similar for both criteria. For the maximum interval criterion, each item information function was integrated (without weighting) for the interval from the mean to 2 SDs worse than the mean. For the CAT simulations, responses to all items in each bank were generated using a random sample of 1,000 simulees drawn separately for each bank (centered on 0.5 SD worse than the general population mean). Items were rank ordered based on their average administration rank over the simulees. Content experts reviewed the items and rankings and made cuts of 4, 6, and 8 items. For each domain, 4-item, 6-item, and 8-items have been selected so that the items are nested/overlap (e.g., the 8-item form is the 6-item form plus two additional items). The 4a, 6a, and 8a short forms can be administered with short forms of similar length from other domains (anxiety, pain interference, fatigue, sleep disturbance, ability to participate in social roles and activities (v2.0), and physical function (6b and 8b NOT 6a and 8a)) as part of a PROMIS Profile (see PROMIS-29, 43 or 57 Profile v2.0), though they can also be administered individually.

The original adult short form (8b) was constructed by the domain team with a focus on representing the range of the trait and also representing the content of the item bank. Domain experts reviewed short forms to give input on the relevance of each item. Each domain group worked independently and the original short forms are 6-10 items long depending on the domain. Psychometric properties and clinical input were both used and likely varied in importance across domains.

Pediatric and Parent Proxy Short Forms

There is 1 pediatric and 1 parent proxy short form. Items were selected based on content and psychometric characteristics.

Selecting a Short Form

In selecting between short forms, the difference is instrument length. The reliability and precision of the short forms within a domain is highly similar. If you are working with a sample in which you want the most precise measure, select the longest short form. If you have little room for additional measures but really wanted to capture something as a secondary outcome, select one of the shorter instruments (e.g., 4-item short form).

PROMIS ADULT CANCER MEASURES

PROMIS-Cancer (PROMIS-Ca) measures (Physical Function, Fatigue, Pain Interference, Depression and Anxiety) were developed under the PROMIS Cancer Supplement (CaPS) grant from NCI. The measures are highly similar to PROMIS measures. Some banks include unique items. In rare instances, a shared item uses different item-level calibrations in each bank.

- PROMIS-Ca Bank v1.1 - Physical Function contains 45 items, 33 of which are also in PROMIS Bank v2.0 - Physical Function.
- PROMIS-Ca Bank v1.0 - Fatigue contains 54 items, all of which are from PROMIS Bank v1.0 - Fatigue.
- PROMIS-Ca Bank v1.0 - Anxiety contains 22 items; 20 items from PROMIS Bank v1.0 - Anxiety, and 2 items unique to CaPS in which cancer specific calibrations were used: EDANX09 & EDANX39.
- PROMIS-Ca Bank v1.0 - Depression item bank contains 30 items; 23 items are from PROMIS Bank v1.0 - Depression and 7 items unique to CaPS in which cancer specific calibrations were used: EDANG09, EDANG29, EDDEP02, EDDEP12, EDDEP16, EDDEP38 & EDDEP55.
- PROMIS-Ca Bank v1.1 - Pain Interference contains 35 items; 32 items from PROMIS Bank v1.1 - Pain Interference v1.1 and 3 items unique to CaPS in which cancer specific calibrations were used: PAININ4, PAININ15 & PAININ30.

PROMIS-Cancer (PROMIS-Ca) measures were developed by having content experts review the adult PROMIS item banks for anxiety, depression, fatigue, pain interference, and physical function. Items were selected through expert consensus and informed by focus groups and cognitive interviews with cancer patients. Multidisciplinary clinical input was obtained to ensure content coverage and the relevance of PROMIS items to patients' cancer and/or cancer treatment experiences. Items' psychometric properties were reviewed when applicable. Next, calibration testing was conducted with cancer patients with different diagnoses and treatments. Data were analyzed to identify if items performed differently in people with cancer than people with other chronic conditions or in the general population. In most cases, PROMIS calibrations ("PROMIS Wave 1") were retained. In rare cases where differential item functioning was identified, calibrations for that item were revised for when that item is used in the PROMIS-Ca item bank. For items that exist only in a PROMIS-Ca

item bank, new calibrations were created by using a fixed parameter linking strategy. This set of calibrations is named “Cancer” in the HealthMeasures Scoring Service and Assessment Center.

A fixed parameter linking approach was taken because of the additional analyses that were conducted to evaluate the differences between the PROMIS item bank and the PROMIS-Ca item bank. The measures produce slightly different scores. This difference was determined to be so small that comparing scores from a PROMIS measure and PROMIS-Ca measure is acceptable. Because the PROMIS measures have demonstrated validity across diverse patient populations, are linked with other PRO measures (i.e., [PROsetta Stone](#)), and have continued to be improved through item bank expansion (e.g., PROMIS Physical Function item bank v2.0), it is recommended to use the general population PROMIS calibrations when assessing individuals with cancer.

SELECTING A PEDIATRIC OR PARENT PROXY INSTRUMENT

In selecting whether to use the pediatric or parent proxy instrument for this domain, it is important to consider both the population and the domain which you are studying. Pediatric self-report should be considered the standard for measuring patient-reported outcomes among children. However, circumstances exist when the child is too young, cognitively impaired, or too ill to complete a patient-reported outcome instrument. While information derived from self-report and proxy-report is not equivalent, it is optimal to assess both the child and the parent since their perspectives may be independently related to healthcare utilization, risk factors, and quality of care.

WHICH CALIBRATION SAMPLE SHOULD I USE?

Some PROMIS Parent Proxy instruments (Anxiety, Depressive Symptoms, Fatigue, Mobility, Pain Interference, Peer Relationships) have two calibration samples – “Parent Proxy” and “Parent Proxy Without Local Dependence.” The former (Parent Proxy) includes calibrations for all items. This is the default calibration sample. If you aren’t sure which calibration sample to use, utilize this one. The Parent Proxy Without Local Dependence does not include calibrations for some items. The items without calibrations are enemy items. That is, a dyad or triad of items was identified in which there are psychometric reasons to only administer one of those items to a given respondent. For example, item Pf2depr11 and Pf2depr3 are enemy items. A participant should only see one of these items in a CAT.

SCORING THE INSTRUMENT

Short Forms: PROMIS instruments are scored using item-level calibrations. This means that the most accurate way to score a PROMIS instrument is to use the HealthMeasures Scoring Service (https://www.assessmentcenter.net/ac_scoringervice) or a data collection tool that automatically calculates scores (e.g., Assessment Center, REDCap auto-score). This method of scoring uses responses to each item for each participant. We refer to this as “response pattern scoring.” Because response pattern scoring is more accurate than the use of raw score/scale score look up tables included in this manual, it is preferred. Response pattern scoring is especially useful when there is missing data (i.e., a respondent skipped an item), different groups of participants responded to different items, or you have created a new questionnaire using a subset of questions from a PROMIS item bank.

Each question usually has five response options ranging in value from one to five. To find the total raw score for a short form with all questions answered, sum the values of the response to each question. For example, for the adult 8-item form, the lowest possible raw score is 8; the highest possible raw score is 40 (see all short form

scoring tables in Appendix 1). **All questions must be answered in order to produce a valid score using the scoring tables.** If a participant has skipped a question, use the HealthMeasures Scoring Service (https://www.assessmentcenter.net/ac_scoring-service) to generate a final score.

Locate the applicable score conversion table in Appendix 1 and use this table to translate the total raw score into a T-score for each participant. The T-score rescales the raw score into a standardized score with a mean of 50 and a standard deviation (SD) of 10. Therefore, a person with a T-score of 40 is one SD below the mean.

For the Adult PROMIS Depression 8b short form, a raw score of 10 converts to a T-score of 46.2 with a standard error (SE) of 2.8 (see scoring table for the 8b short form in appendix). Thus, the 95% confidence interval around the observed score ranges from 40.7 to 51.7 (T-score \pm (1.96*SE) or 46.2 \pm (1.96*2.8)).

CAT: A minimum number of items (4 for adult and adult cancer CATs and 5 for peds and parent proxy CATs) must be answered in order to receive a score for the depression CAT. The response to the first item will guide the system's choice of the next item for the participant. The participant's response to the second item will dictate the selection of the following question, and so on. As additional items are administered, the potential for error is reduced and confidence in the respondent's score increases. The CAT will continue until either the standard error drops below a specified level (on the T-score metric 3.0 for adult and adult cancer CATs and 4.0 for peds and parent proxy CATs), or the participant has answered the maximum number of questions (12), whichever occurs first.

For most PROMIS instruments, a score of 50 is the average for the United States general population with a standard deviation of 10 because calibration testing was performed on a large sample of the general population. You can read more about the calibration and centering samples on HealthMeasures.net (<http://www.healthmeasures.net/score-and-interpret/interpret-scores/promis>). The T-score is provided with an error term (Standard Error or SE). The Standard Error is a statistical measure of variance and represents the "margin of error" for the T-score.

Important: A higher PROMIS T-score represents more of the concept being measured. For negatively-worded concepts like depression, a T-score of 60 is one SD worse than average. By comparison, a depression T-score of 40 is one SD better than average.

STATISTICAL CHARACTERISTICS

There are four key features of the score for depression:

- **Reliability:** The degree to which a measure is free of error. It can be estimated by the internal consistency of the responses to the measure, or by correlating total scores on the measure from two time points when there has been no true change in what is being measured (for z-scores, reliability = $1 - SE^2$).
- **Precision:** The consistency of the estimated score (reciprocal of error variance).
- **Information:** The precision of an item or multiple items at different levels of the underlying continuum (for z-scores, information = $1/SE^2$).
- **Standard Error (SE):** The possible range of the actual final score based upon the scaled T-score. For example, with a T-score of 52 and a SE of 2, the 95% confidence interval around the actual final score ranges from 48.1 to 55.9 (T-score \pm (1.96*SE) = 52 \pm 3.9 = 48.1 to 55.9).

The final score is represented by the T-score, a standardized score with a mean of 50 and a standard deviation (SD) of 10.

In Figure 2 (Adult 8b short form), the two dotted horizontal lines each represent a degree of internal consistency reliability (i.e., .90 or .95) typically regarded as sufficient for an accurate individual score. The shaded blue region marks the range of the scale where measurement precision is comparable to the reliability of .90 for the eight-item form. Figure 2 also tells us where on the scale the form is most informative based upon the T-score. This form would typically be more informative than a depression form with fewer items.

Figure 3 (Adult 4a, 6a & 8a short forms) also tells us where on the scale the form is most informative based upon the T-score: the 8-item form is more informative than the 6-item form, which is more informative than the 4-item form. See additional test information figures for pediatric and parent proxy instruments in Appendix 1.

Figure 4 is a sample of the statistical information available in Assessment Center for the Adult Depression CAT.

More information is available on HealthMeasures.net.

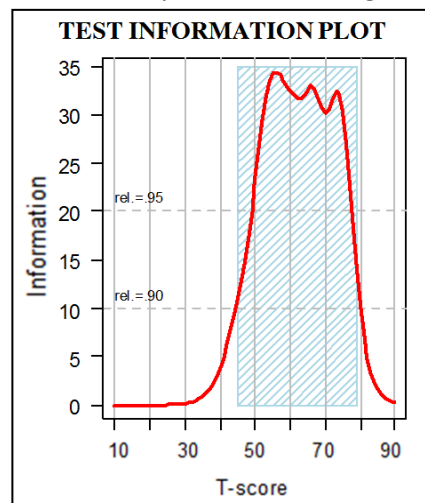


Figure 2

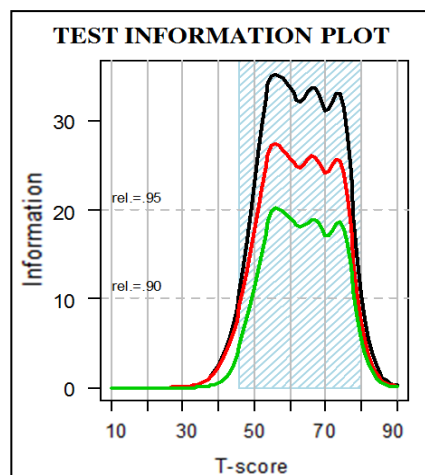


Figure 4

Scaling Model Used For Calibration					Graded Response Model (GRM)				
Total Number of Items					28				
Sample					N		Alpha Reliability		
PROMIS Wave 1 Full Bank					782		0.98		

Score Distributions									
	Mean	SD	P5	P10	P25	P50	P75	P90	P95
Raw	49.16	22.58	28.00	29.00	31.00	41.00	60.00	83.00	96.95
Scale	49.31	9.63	33.49	37.66	42.42	48.62	55.25	62.01	66.00

										Min	Max
Scale Score	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	0.0	0.0
SE	13.90	4.00	1.10	.30	.10	.10	.10	.20	.50		
Reliability	.00	.00	.00	.92	.98	.99	.99	.97	.75		

Figure 3

PREVIEW OF SAMPLE ITEM

Figure 5 is an excerpt from the paper version of the adult eight-item short form. This is the paper version format used for all depression instruments. It is important to note that the CAT is not available for paper administration, though PDFs are available to review all included items.

In the past 7 days....		Never	Rarely	Sometimes	Often	Always
EDDEP04	I felt worthless.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
EDDEP05	I felt that I had nothing to look forward to	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5

Figure 5

FREQUENTLY ASKED QUESTIONS (FAQs)

Q: I am interested in learning more. Where can I do that?

Review the HealthMeasures website at www.healthmeasures.net.

Q: Do I need to register with PROMIS to use these instruments?

No.

Q: Are these instruments available in other languages?

Yes! Look at the HealthMeasures website (<http://www.healthmeasures.net/explore-measurement-systems/promis/intro-to-promis/available-translations/117-available-translations>) for current information on PROMIS translations.

Q: Can I make my own short form?

Yes, custom short forms can be made by selecting any items from an item bank. This can be scored using the Scoring Service (https://www.assessmentcenter.net/ac_scoring-service).

Q: How do I handle multiple responses when administering a short form on paper?

Guidelines on how to deal with multiple responses have been established. Resolution depends on the responses noted by the research participant.

- If two or more responses are marked by the respondent, and they are next to one another, then a data entry specialist will be responsible for randomly selecting one of them to be entered and will write down on the form which answer was selected. Note: To randomly select one of two responses, the data entry specialist will flip a coin (heads - higher number will be entered; tails – lower number will be entered). To randomly select one of three (or more) responses, a table of random numbers should be used with a statistician's assistance.

- If two or more responses are marked, and they are NOT all next to one another, the response will be considered missing.

Q: What is the minimum change on a PROMIS instrument that represents a clinically meaningful difference?

To learn more about research on the meaning of a change in scores, we suggest conducting a literature review to identify the most current information. The HealthMeasures website (<http://www.healthmeasures.net/score-and-interpret/interpret-scores/promis>) has additional information on interpreting scores.



APPENDIX 1 - SCORING TABLES

It is recommended that you use the most recent version available which can be identified as the instrument with the highest version number

Depression 4a - Adult v1.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
4	41.0	6.2
5	49.0	3.2
6	51.8	2.7
7	53.9	2.4
8	55.7	2.3
9	57.3	2.3
10	58.9	2.3
11	60.5	2.3
12	62.2	2.3
13	63.9	2.3
14	65.7	2.3
15	67.5	2.3
16	69.4	2.3
17	71.2	2.4
18	73.3	2.4
19	75.7	2.6
20	79.4	2.6

SE* = Standard Error on T-Score

Depression 6a - Adult v1.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
6	38.4	5.8
7	45.2	3.4
8	48.3	2.8
9	50.4	2.4
10	52.0	2.2
11	53.4	2.1
12	54.7	2.0
13	55.9	2.0
14	57.0	1.9
15	58.2	1.9
16	59.3	2.0
17	60.5	2.0
18	61.7	2.0
19	62.9	2.0
20	64.2	2.0
21	65.5	2.0
22	66.7	2.0
23	68.0	2.0
24	69.3	2.0
25	70.6	2.0
26	72.0	2.0
27	73.4	2.0
28	75.0	2.1
29	76.9	2.4
30	80.3	3.5

SE* = Standard Error on T-Score



Depression 8a - Adult v1.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
8	38.2	5.7
9	44.7	3.3
10	47.5	2.7
11	49.4	2.3
12	50.9	2.0
13	52.1	1.9
14	53.2	1.8
15	54.1	1.8
16	55.1	1.7
17	55.9	1.7
18	56.8	1.7
19	57.7	1.7
20	58.5	1.7
21	59.4	1.7
22	60.3	1.7
23	61.2	1.7
24	62.1	1.8
25	63.0	1.8
26	63.9	1.8
27	64.9	1.8
28	65.8	1.8
29	66.8	1.8
30	67.7	1.8
31	68.7	1.8
32	69.7	1.8
33	70.7	1.8
34	71.7	1.8
35	72.8	1.8
36	73.9	1.8
37	75.0	1.9
38	76.4	2.0
39	78.2	2.4
40	81.3	3.4

SE* = Standard Error on T-Score

Depression 8b - Adult v1.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-score	SE*
8	37.1	5.5
9	43.3	3.4
10	46.2	2.8
11	48.2	2.4
12	49.8	2.2
13	51.2	2.0
14	52.3	1.9
15	53.4	1.8
16	54.3	1.8
17	55.3	1.7
18	56.2	1.7
19	57.1	1.7
20	57.9	1.7
21	58.8	1.7
22	59.7	1.8
23	60.7	1.8
24	61.6	1.8
25	62.5	1.8
26	63.5	1.8
27	64.4	1.8
28	65.4	1.8
29	66.4	1.8
30	67.4	1.8
31	68.3	1.8
32	69.3	1.8
33	70.4	1.8
34	71.4	1.8
35	72.5	1.8
36	73.6	1.8
37	74.8	1.9
38	76.2	2.0
39	77.9	2.4
40	81.1	3.4

SE* = Standard Error on T-Score

Pediatric v2.0 - Depressive Symptoms 8a		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
8	35.2	5.8
9	40.4	4.6
10	43.2	4.2
11	45.5	3.9
12	47.4	3.7
13	49.1	3.5
14	50.6	3.3
15	52.0	3.2
16	53.3	3.2
17	54.5	3.1
18	55.7	3.1
19	56.8	3.0
20	57.9	3.0
21	59.0	3.0
22	60.0	3.0
23	61.1	3.0
24	62.1	3.0
25	63.1	3.0
26	64.1	3.0
27	65.1	3.0
28	66.1	3.0
29	67.2	2.9
30	68.2	2.9
31	69.3	3.0
32	70.3	3.0
33	71.4	3.0
34	72.6	3.0
35	73.8	3.1
36	75.1	3.2
37	76.5	3.3
38	78.1	3.5
39	79.9	3.6
40	82.4	3.7

SE* = Standard Error on T-Score

Depressive Symptoms 6a - Parent Proxy v2.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
6	36.2	5.9
7	42.1	4.4
8	45.4	4.0
9	48.0	3.6
10	50.2	3.4
11	52.1	3.3
12	53.9	3.2
13	55.6	3.1
14	57.2	3.1
15	58.9	3.1
16	60.5	3.1
17	62.1	3.1
18	63.7	3.1
19	65.3	3.1
20	66.8	3.1
21	68.4	3.1
22	70.0	3.1
23	71.5	3.0
24	73.1	3.0
25	74.7	3.0
26	76.3	3.1
27	78.1	3.2
28	80.2	3.3
29	82.5	3.4
30	84.7	3.2

SE*=Standard Error on T-Score

All scoring tables are based on default Parent Proxy calibrations.

APPENDIX 2 - SCORING TABLES FOR RETIRED MEASURES

Depressive Symptoms 8a - Pediatric v1.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
0	35.2	5.8
1	40.4	4.6
2	43.2	4.2
3	45.5	3.8
4	47.4	3.6
5	49.1	3.4
6	50.5	3.3
7	51.9	3.2
8	53.2	3.1
9	54.3	3.1
10	55.5	3.0
11	56.6	3.0
12	57.7	3.0
13	58.7	3.0
14	59.7	2.9
15	60.7	2.9
16	61.8	2.9
17	62.8	2.9
18	63.7	2.9
19	64.7	2.9
20	65.7	2.9
21	66.8	2.9
22	67.8	2.9
23	68.8	2.9
24	69.9	2.9
25	70.9	2.9
26	72.1	3.0
27	73.2	3.0
28	74.5	3.1
29	75.9	3.2
30	77.5	3.4
31	79.3	3.5
32	81.9	3.7

SE*=Standard Error on T-Score

Depressive Symptoms 8b - Pediatric v1.1		
<i>Short Form Conversion Table</i>		
Raw Score	T-score	SE*
0	35.2	5.8
1	40.4	4.6
2	43.2	4.2
3	45.5	3.9
4	47.4	3.7
5	49.1	3.5
6	50.6	3.3
7	52.0	3.2
8	53.3	3.2
9	54.5	3.1
10	55.7	3.1
11	56.8	3.0
12	57.9	3.0
13	59.0	3.0
14	60.0	3.0
15	61.1	3.0
16	62.1	3.0
17	63.1	3.0
18	64.1	3.0
19	65.1	3.0
20	66.1	3.0
21	67.2	2.9
22	66.2	2.9
23	69.3	3.0
24	70.3	3.0
25	71.4	3.0
26	72.6	3.0
27	73.8	3.1
28	75.1	3.2
29	76.5	3.3
30	78.1	3.5
31	79.9	3.6
32	82.4	3.7

SE*=Standard Error on T-Score

Depressive Symptoms 6a - Parent Proxy v1.0		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
0	36.0	6.0
1	42.0	4.0
2	45.0	4.0
3	48.0	4.0
4	50.0	3.0
5	52.0	3.0
6	54.0	3.0
7	55.0	3.0
8	57.0	3.0
9	59.0	3.0
10	60.0	3.0
11	62.0	3.0
12	64.0	3.0
13	65.0	3.0
14	67.0	3.0
15	68.0	3.0
16	70.0	3.0
17	72.0	3.0
18	73.0	3.0
19	75.0	3.0
20	77.0	3.0
21	78.0	3.0
22	80.0	3.0
23	83.0	4.0
24	86.0	4.0

SE*=Standard Error on T-Score

Depressive Symptoms 6b - Parent Proxy v1.1		
<i>Short Form Conversion Table</i>		
Raw Score	T-Score	SE*
0	36.0	5.9
1	42.1	4.4
2	45.4	4.0
3	48.0	3.6
4	50.2	3.4
5	52.1	3.3
6	53.9	3.2
7	55.6	3.1
8	57.2	3.1
9	58.9	3.1
10	60.5	3.1
11	62.1	3.1
12	63.7	3.1
13	65.3	3.1
14	66.8	3.1
15	68.4	3.1
16	70.0	3.1
17	71.5	3.0
18	73.1	3.0
19	74.7	3.0
20	76.3	3.1
21	78.1	3.2
22	80.2	3.3
23	82.5	3.4
24	84.7	3.2

SE*=Standard Error on T-Score

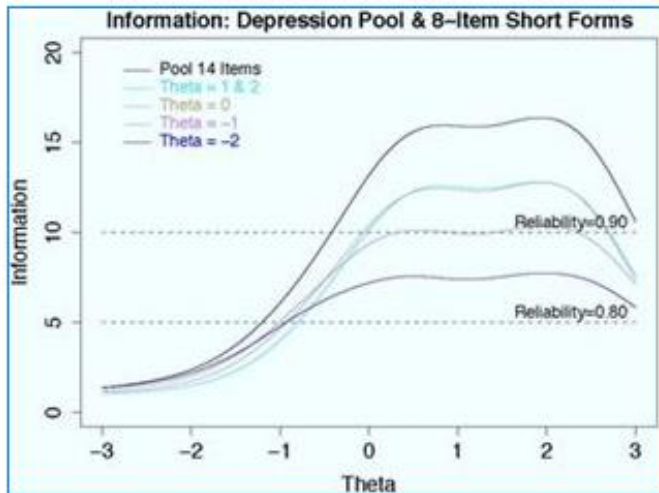


Figure 8 – Pediatric Test Information Depression