



GLOBAL HEALTH SCORING MANUAL

A brief guide to scoring the PROMIS® Global Health instruments:

ADULT	PEDIATRIC	EARLY CHILDHOOD PARENT-REPORT	PARENT PROXY
PROMIS Scale v1.2 – Global Health PROMIS Scale v1.2 – Global Mental Health 4a PROMIS Scale v1.2 – Global Physical Health 4a PROMIS Scale v1.2 – Global Mental 2a PROMIS Scale v1.2 – Global Physical 2a PROMIS Scale v1.0/1.1 – Global Health*	PROMIS Pediatric Scale GenPop v3.0 – Global Health 7 PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2 PROMIS Pediatric Scale v1.0 – Global Health 7* PROMIS Pediatric Scale v1.0 – Global Health 7+2*	PROMIS Early Childhood Parent-Report Scale v1.0 – Global Health 8a	PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7 PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2 PROMIS Parent Proxy Scale v1.0 – Global Health 7* PROMIS Parent Proxy Scale v1.0 – Global Health 7+2*

*Retired measure

SCORING THE INSTRUMENT

PROMIS measures use Item Response Theory (IRT), a family of statistical models that link individual questions to a presumed underlying trait or concept of global health. 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_scoring-service) or a data collection tool that automatically calculates scores (e.g., Epic PROMIS CAT application, 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.

Raw Sum Score to T Score Conversion Tables

If the HealthMeasures Scoring Service or automated response pattern scoring is not an option, the conversion tables in Appendix 1 can be used to convert summed raw scores from PROMIS Global scales into T-score values for an individual respondent. In all cases, these conversions only work accurately when all questions on the scale have been answered. To use the scoring tables in this manual, calculate a summed score or scores. Most questions have five response options ranging in value from one to five. To find the total raw summed score for a scale, sum the appropriate values of the responses from relevant questions. For example, for PROMIS Scale v1.2 – Global Mental 2a, sum the response values for both items.

Global Scales May Produce Multiple Scores

PROMIS adult Global scales v1.0, v1.1, and v1.2 produce two scores: **Global Mental Health** and **Global Physical Health**. Consequently, only a subset of items from the scale is summed before using the appropriate conversion table. Similarly, PROMIS Pediatric Scale v1.0 – Global Health 7+2 and PROMIS Parent Proxy Scale v1.0 – Global Health 7 + 2 produce multiple scores. Therefore, subsets of items are



summed together. The other measures (adult 2a, Pediatric 7, Early Childhood, Parent Proxy 7) produce a single global score. Additional details are provided below.

Using the Scoring Table

Locate the applicable score conversion table in Appendix 1 and use this table to translate the sum of raw scores into a T-score for each participant. The T-score rescales the raw sum 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 example, for the PROMIS Parent Proxy Global Health 7 Scale, a raw score of 10 converts to a T-score of 16.9 with a standard error (SE) of 3.4 (see scoring table for the 7-item global scale in Appendix 1). Thus, the 95% confidence interval around the observed score ranges from 10.2 to 23.6 (T-score \pm (1.96*SE) or 16.9 \pm (1.96*3.4)).

SCORING MANUAL CONTENTS

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- 2) [Scoring PROMIS Scale v1.2 – Global Health](#)
- 3) [Scoring PROMIS Global Mental 2a, Global Physical 2a, Global Mental Health 4a, Global Physical Health 4a, Pediatric Global Health 7, and Parent Proxy Global Health 7](#)
- 4) [Scoring PROMIS Pediatric Scale v3.0 GenPop – Global Health 7+2 and Parent Proxy Scale v3.0 GenPop – Global Health 7+2](#)
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SCORING PROMIS SCALE V1.0/V1.1 – GLOBAL HEALTH

PROMIS Scale v1.0/v1.1 – Global Health can be scored using the HealthMeasures Scoring Service or the raw sum score to T-score look-up tables in this manual.

Score v1.0/v1.1 with HealthMeasures Scoring Service

In order to use the HealthMeasures Scoring Service to score PROMIS Scale v1.0/v1.1 – Global Health, you will need to change item IDs and modify response scores so that they match v1.2 (see Table 1). Use the PDF of PROMIS Scale v1.2 – Global Health from HealthMeasures.net as a guide. It is available at [Search & View](#) on HealthMeasures.net.

- **Item IDs:** In Global v1.0 and v1.1, there are four item IDs that need an “r” added. These are Global09 (becomes Global09r), Global10 (becomes Global10r), Global08 (becomes Global08r), and Global07 (becomes Global07r).
- **Response Scores:**
 - No change is needed for Global09r.
 - For Global10r and Global8r, the direction of scores is reversed so that high scores reflect better functioning. For example, in v1.1, item Global10 had “Never” equal to 1. Now, in v1.2, Global10r has “Never” equal to 5. Use Table 1 for guidance on response scores for these two items.
 - No modification to the response scores for item Global07r is needed. The HealthMeasures Scoring Service will use the 0-10 response scores.

After making modifications to the item IDs and response scores for these items in the data file, upload the data to the HealthMeasures Scoring Service. Locate PROMIS Global v1.2 in the Scoring Service by searching for “Global Mental Health” or “Global Physical Health”. A new scored file will be sent by email and will include a score for Global Mental Health and a second score for Global Physical Health. The log file shows that four items are used for Mental Health and four other items are used for Physical Health. Use the raw responses for the other two items that don’t contribute to a summed score. Instructions can be found in this video tutorial: <https://www.youtube.com/watch?v=KM2FqYoS--A>.

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Table 1: Required Re-coding of Item IDs and Response Options for Scoring PROMIS Scale v1.0/v1.1 – Global Health in the HealthMeasures Scoring Service

Item Stem	Original Item ID	Original Response Scores	New Item ID	Recoded Response Score
How would you rate your pain on average?	Global07	0 - No pain 1 2 3 4 5 6 7 8 9 10 - Worst pain imaginable	Global07r	0 - No pain 1 2 3 4 5 6 7 8 9 10 - Worst pain imaginable
How would you rate your fatigue on average?	Global08	1=None 2=Mild 3=Moderate 4=Severe 5=Very severe	Global08r	5 = None 4 = Mild 3 = Moderate 2 = Severe 1 = Very severe
In general, please rate how well you carry out your usual social activities and roles. (This includes activities at home, at work and in your community, and responsibilities as a parent, child, spouse, employee, friend, etc.)	Global09	5=Excellent 4=Very good 3=Good 2=Fair 1=Poor	Global09r	5=Excellent 4=Very good 3=Good 2=Fair 1=Poor
How often have you been bothered by emotional problems such as feeling anxious, depressed or irritable?	Global10	1=Never 2=Rarely 3=Sometimes 4=Often 5=Always	Global10r	5 = Never 4 = Rarely 3 = Sometimes 2 = Often 1 = Always



Score v1.0/v1.1 Using Raw Sum Score to T-Score Look-Up Tables

In order to use raw sum score to T-score look-up tables to score PROMIS Scale v1.0/v1.1 – Global Health, you will need to modify response scores (see Table 2). Use the PDF of PROMIS Scale v1.2 – Global Health from HealthMeasures.net as a guide. It is available at [Search & View](#) on HealthMeasures.net.

- **Response Scores:**
 - For Global10 and Global8, the direction of scores is reversed so that high scores reflect better health. For example, in v1.1, item Global10 had “Never” equal to 1. Now, in v1.2, Global10r has “Never” equal to 5. By changing the direction of scores, the items are renamed Global10r and Global8r.
 - Re-code Global07 to use 1 to 5 response scores. Again, higher scores now reflect better health. The item ID changes to Global07r.
 - To re-code with software instead, apply the SAS code listed in Appendix 3 for use with v1.0/1.1.

Table 2: Required Re-coding of Response Options for Scoring PROMIS Scale v1.0/v1.1 – Global Health with Raw Sum Score to T-Score Look-Up Tables

Item Stem	Original Item ID	Original Response Scores	New Item ID	Recoded Response Score
How would you rate your pain on average?	Global07	0 - No pain 1 2 3 4 5 6 7 8 9 10 - Worst pain imaginable	Global07r	<u>Orig Score → Recoded Score</u> 0 - No pain → 5 1 → 4 2 → 4 3 → 4 4 → 3 5 → 3 6 → 3 7 → 2 8 → 2 9 → 2 10 - Worst pain imaginable → 1
How would you rate your fatigue on average?	Global08	1=None 2=Mild 3=Moderate 4=Severe 5=Very severe	Global08r	5 = None 4 = Mild 3 = Moderate 2 = Severe 1 = Very severe
How often have you been bothered by emotional problems such as feeling anxious, depressed or irritable?	Global10	1=Never 2=Rarely 3=Sometimes 4=Often 5=Always	Global10r	5 = Never 4 = Rarely 3 = Sometimes 2 = Often 1 = Always



In order to calculate Global Physical and Global Mental scores:

- 1) Calculate the Global Physical Health raw score by summing the responses for Global03, Global06, Global07r, and Global08r.
- 2) Calculate the Global Mental Health raw score by summing the responses for Global 02, Global04, Global05, and Global10r.
- 3) Use the raw sum to T-score tables for physical health and mental health in Appendix 1.
- 4) The raw response scores from remaining two items from all PROMIS Global Health scales should be used in analyses.

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SCORING PROMIS SCALE V1.2 – GLOBAL HEALTH

PROMIS Scale v1.2 – Global Health can be scored using the HealthMeasures Scoring Service or be scored using raw sum score to T-score look-up tables in this manual.

Score with HealthMeasures Scoring Service

PROMIS Scale v1.2 – Global Health is included in the HealthMeasures Scoring Service. No modifications to item IDs or response scores are needed. Item IDs and response scores should match what is displayed in the PDF version of the measure available at HealthMeasures.net. Locate PROMIS Global v1.2 in the Scoring Service by searching for “Global Mental Health” or “Global Physical Health”. After uploading your data file, a new scored file will be sent by email. It includes a score for Global Mental Health and a second score for Global Physical Health. The log file shows that four items are used for Mental Health and four other items are used for Physical Health. Use the raw responses for the other two items that don’t contribute to a summed score. Instructions can be found in this video tutorial:

<https://www.youtube.com/watch?v=KM2FqYoS--A>.

The following pages provide instructions for calculating scores by hand using the raw sum score to T-score look-up tables in this manual.

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Score Using Raw Sum Score to T-Score Look-Up Tables

PROMIS Global v1.2 produces a Global Physical Health and Global Mental Health score. Four items (see Figure 1) are used to calculate each score.

Figure 1: Items used to calculate PROMIS Scale v1.2 – Global Health scores

PROMIS® Scale v1.2 – Global Health

Global Health

Please respond to each question or statement by marking one box per row.

		Excellent	Very good	Good	Fair	Poor
Global01	In general, would you say your health is.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global02	In general, would you say your quality of life is.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global03	In general, how would you rate your health?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global04	In general, how would you rate your mental health, including your mood and your thoughts?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global05	In general, how would you rate your satisfaction with your social activities/relationships?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global09r	In general, please rate how well you carry out your usual social activities and roles. (This includes activities at home, at work, your community, and responsibilities as a parent, child, spouse, employee, friend, etc.).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global06	To what extent are you able to carry out your everyday physical activities such as walking, climbing stairs, carrying groceries, or pushing a chair?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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PROMIS® Scale v1.2 – Global Health

In the past 7 days...

		Never	Rarely	Sometimes	Often	Always
Global10r	How often have you been bothered by emotional problems such as feeling depressed or irritable?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global08r	How would you rate your fatigue on average?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RECODE Global07r	How would you rate your pain on average?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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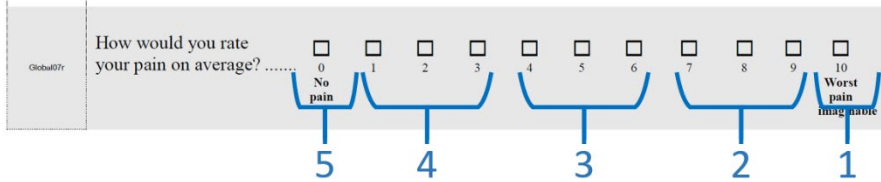
Legend

Color	Score Name	Items
Yellow	Global Physical Health	Global03 Global06 Global08r Recoded Global07r
Green	Global Mental Health	Global02 Global04 Global05 Global10r
Grey	No summary score – use raw response scores only	Global01 Global09r

Calculate a Global Physical Health Score

Step 1:

Recode the response (0-10) selected by respondent on Global07r to 1-5 as shown below. To re-code with software instead, apply the SAS code in Appendix 3 for use with v1.2.



Step 2:

Sum the responses to the following items:

- Recoded Global07r (1-5): _____ +
- Global06: _____ +
- Global03: _____ +
- Global08r: _____ +

Global Physical Health Raw Summed Score: _____

Step 3:

Using the table below, identify the T-score and SE associated with the Raw Summed Score.

PROMIS Global Physical Health v1.0/v1.1/v1.2		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
4	16.2	4.8
5	19.9	4.7
6	23.5	4.5
7	26.7	4.3
8	29.6	4.2
9	32.4	4.2
10	34.9	4.1
11	37.4	4.1
12	39.8	4.1
13	42.3	4.2
14	44.9	4.3
15	47.7	4.4
16	50.8	4.6
17	54.1	4.7
18	57.7	4.9
19	61.9	5.2
20	67.7	5.9
*SE = Standard Error on T-score metric		

Global Physical Health T-Score: _____

SE: _____



Calculate a Global Mental Health Score

Step 1:

Sum the responses to the following items:

Global02: _____ +
Global04: _____ +
Global05: _____ +
Global10r: _____ +

Global Mental Health Raw Summed Score: _____

Step 2:

Using the table below, identify the T-score and SE associated with the Raw Summed Score.

PROMIS Global Mental Health v1.0/v1.1/v1.2		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
4	21.2	4.6
5	25.1	4.1
6	28.4	3.9
7	31.3	3.7
8	33.8	3.7
9	36.3	3.7
10	38.8	3.6
11	41.1	3.6
12	43.5	3.6
13	45.8	3.6
14	48.3	3.7
15	50.8	3.7
16	53.3	3.7
17	56.0	3.8
18	59.0	3.9
19	62.5	4.2
20	67.6	5.3
*SE = Standard Error on T-score metric		

Global Mental Health T-Score: _____
SE: _____



Summary

Score Name	Score
Global Physical Health T-score:	
Global Physical Health SE:	
Global Mental Health T-score:	
Global Mental Health SE:	
Global01 (self-rated health) response (5=Excellent, 4=Very good, 3=Good, 2=Fair, 1=Poor):	
Global09r (ability to carry out social activities and roles) response (5=Excellent, 4=Very good, 3=Good, 2=Fair, 1=Poor):	

Reference

Hays, R. D., Bjorner, J., Revicki, R. A., Spritzer, K. L., & Cella, D. (2009). Development of physical and mental health summary scores from the Patient Reported Outcomes Measurement Information System (PROMIS) global items. *Quality of Life Research, 18*(7),873-80. (PMCID: PMC2724630)

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Additional Domain-Level PROMIS T-Scores

You can estimate group average PROMIS domain T-scores from six PROMIS Global items. The following Figure 2 shows the specific PROMIS Global Health items and corresponding PROMIS domain. For each item, a table provides the T-score associated with each response option. For example, for Global05, a response of 3 (Good) is associated with a T-score of 48.

Score estimates were created using PROsetta Stone methods. Score estimates have very wide confidence intervals and are not recommended for use with an individual patient. The PROsetta Stone website includes 1) a report describing the datasets and linking methods and 2) tables displaying raw responses and corresponding T-scores. See the [PROMIS Global Health page](#) on [PROsettaStone.org](#) to access the report and tables.

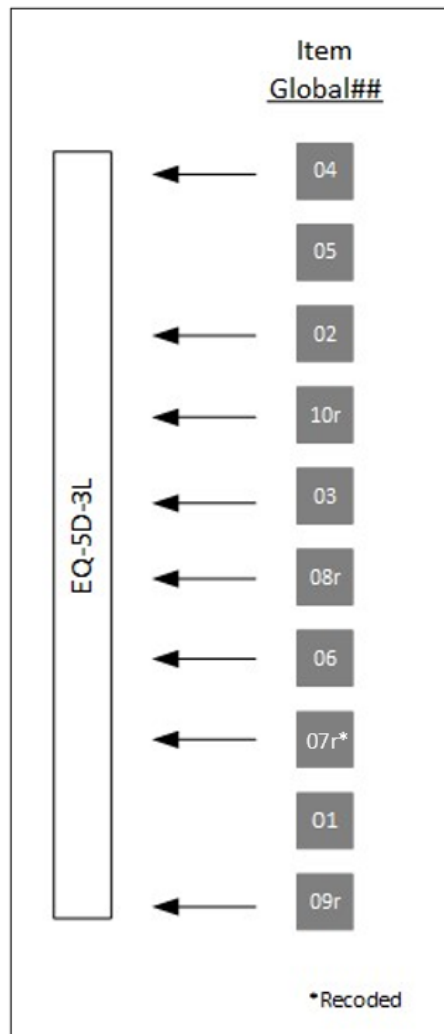
Figure 2: PROMIS Global items and linked PROMIS domain T-scores

PROMIS Scale v1.0/v1.1 – Global Health Items	PROMIS Scale v1.2 – Global Health Items	Linked PROMIS Domain T-Score
04	04	
05	05	→ Satisfaction with Social Roles and Activities
02	02	
10	10r	→ Anger, Anxiety, and Depression
03	03	
08	08r	→ Fatigue
06	06	→ Physical Function
07	07r	→ Pain Intensity and Pain Interference
01	01	
09	09r	→ Ability to Participate in Social Roles and Activities

Estimating an EQ-5D-3L Score

You can estimate an EQ-5D-3L score from 8 items from the PROMIS Scale v1.2 – Global Health measure (see Figure 3). Instructions and SAS code are provided in Appendix 4 and in Revicki et al. (2009)¹.

Figure 3: PROMIS Global items used to estimate EQ-5D-3L



Revicki DA, Kawata AK, Harnam N, Chen WH, Hays RD, and Cella D (2009). Predicting EuroQol (EQ-5D) scores from the Patient-Reported Outcomes Measurement Information System (PROMIS) global items and domain item banks in a United States sample. *Qual Life Res*, 18(6), 783-91. doi: 10.1007/s11136-009-9489-8

Calculating an HUI-3 Score

Hays and colleagues (2016) reported on estimating a Health Utility Index Mark 3 from the PROMIS Global Health scale.

Hays RD, Revicki DA, Feeny D et al. *Pharmacoeconomics* (2016) 34: 1015. <https://doi.org/10.1007/s40273-016-0408-x>



SCORING GLOBAL MENTAL 2A, GLOBAL PHYSICAL 2A, GLOBAL MENTAL HEALTH 4A, GLOBAL PHYSICAL HEALTH 4A, PEDIATRIC GLOBAL HEALTH 7, EARLY CHILDHOOD PARENT-REPORT SCALE 8A, AND PARENT PROXY GLOBAL HEALTH 7

The Global Mental 2a, Global Physical 2a, Global Mental Health 4a, Global Physical Health 4a, Pediatric Global Health 7, and Parent Proxy Global Health 7 all produce a single score.

Score with HealthMeasures Scoring Service

All of these scales are included in the HealthMeasures Scoring Service. No modifications to item IDs or response scores are needed. Item IDs and response scores should match what is displayed in the PDF version of the measure available at HealthMeasures.net. Locate the measure in the Scoring Service by searching for “Global Health”. After uploading your data file, a new scored file will be sent by email. It includes a score for Global Health. The log file shows the number of items used to calculate that score.

Score Using Raw Sum Score to T-Score Look-Up Tables

To find the total raw score for these scales with all questions answered, sum the values of the response to each question for a given respondent. For example, for the PROMIS Parent Proxy Global Health 7 Scale, the lowest possible raw score is 7; the highest possible raw score is 35 (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.**

- *PROMIS Scale v1.2 – Global Mental 2a:* sum the values of the responses to items **Global04** and **Global05**.
- *PROMIS Scale v1.2 – Global Physical 2a:* sum the values of the responses to items **Global03** and **Global06**.
- *PROMIS Scale v1.2 – Global Mental Health 4a:* sum the values of the responses to items **Global02**, **Global04**, **Global05**, and **Global10r**.
- *PROMIS Scale v1.2 – Global Physical Health 4a:* sum the values of the responses to items **Global03**, **Global06**, **Global07r**, and **Global08r**.
 - For recoding instructions for item **Global07r**, please see “Scoring PROMIS Scale v1.2 - Global Health” section above.
- *PROMIS Pediatric Scale v1.0 – Global Health 7:* sum the values of the responses to **all 7 items**.
- *PROMIS Early Childhood Parent-Report Scale v1.0 – Global Health 8a:* sum the values of the responses to **all 8 items**.
- *PROMIS Parent Proxy Scale v1.0 – Global Health 7:* sum the values of the responses to **all 7 items**.
- Use the raw sum to T-score tables for the appropriate scale in Appendix 1.



SCORING PROMIS PEDIATRIC SCALE V3.0 GENPOP – GLOBAL HEALTH 7+2 AND PARENT PROXY SCALE V3.0 GENPOP – GLOBAL HEALTH 7+2

The PROMIS Pediatric Global Health 7+2, and Parent Proxy Global Health 7+2 produce multiple scores.

Score with HealthMeasures Scoring Service

Both scales are included in the HealthMeasures Scoring Service. No modifications to item IDs or response scores are needed. Item IDs and response scores should match what is displayed in the PDF version of the measure available at HealthMeasures.net. Locate the measure in the Scoring Service by searching for “Global Health”. After uploading your data file, a new scored file will be sent by email. The log file shows the number of items used to calculate that score. Only one score, Global Health, is produced per respondent.

Score Using Raw Sum Score to T-Score Look-Up Tables

To find the total raw global sum score, sum the values of 7 items’ response scores. For example, for the PROMIS Parent Proxy Global Health 7+2 Scale, the lowest possible raw sum score for Global Health is 7; the highest possible raw sum score is 35 (see all short form scoring tables in Appendix 1). **All 7 questions must be answered in order to produce a valid global score using the scoring tables.** For the additional two items in Pediatric 7+2 and Parent Proxy 7+2, no sum is needed.

- *PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2*: sum the values of the responses to items **Global01R1, Global02R1, Global03R1, Global04R1, PedGlobal2R1, PedGlobal5R1, and PedGlobal6R1** for the “Global” score. Retain the raw response score for items **2876R1r** and **3793R1r** for Fatigue and Pain Interference.
- *PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2*: sum the values of the responses to items **Global01_PXR1, Global02_PXR1, Global03_PXR1, Global04_PXR1, PedGlobal02_PXR1, PedGlobal5_PXR1, and PedGlobal6_PXR1**. Retain the raw response score for items **Pf4fatigue3r** and **Pf2pain5r** for Fatigue and Pain Interference.
- Use the raw sum to T-score tables for the appropriate scale in Appendix 1. There are tables for the individual Fatigue and Pain Interference items as well.

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SCORING PROMIS PEDIATRIC SCALE V1.0 – GLOBAL HEALTH 7+2 AND PARENT PROXY SCALE V1.0 – GLOBAL HEALTH 7+2

The PROMIS Pediatric Scale v1.0 – Global Health 7+2, and Parent Proxy Scale v1.0 – Global Health 7+2 produce multiple scores.

Score with HealthMeasures Scoring Service

Both scales are included in the HealthMeasures Scoring Service. No modifications to item IDs or response scores are needed. Item IDs and response scores should match what is displayed in the PDF version of the measure available at HealthMeasures.net. Locate the measure in the Scoring Service by searching for “Global Health”. After uploading your data file, a new scored file will be sent by email. The log file shows the number of items used to calculate that score. Only one score, Global Health, is produced per respondent.

Score Using Raw Sum Score to T-Score Look-Up Tables

To find the total raw global sum score, sum the values of 7 items’ response scores. For example, for the PROMIS Parent Proxy Global Health 7+2 Scale, the lowest possible raw sum score for Global Health is 7; the highest possible raw sum score is 35 (see all short form scoring tables in Appendix 2). **All 7 questions must be answered in order to produce a valid global score using the scoring tables.** For the additional two items in Pediatric 7+2 and Parent Proxy 7+2, no sum is needed.

- *PROMIS Pediatric Scale v1.0 – Global Health 7+2*: sum the values of the responses to items **Global01R1, Global02R1, Global03R1, Global04R1, PedGlobal2R1, PedGlobal5R1, and PedGlobal6R1** for the “Global” score. Retain the raw response score for items **2876R1r** and **3793R1r** for Fatigue and Pain Interference.
- *PROMIS Parent Proxy Scale v1.0 – Global Health 7+2*: sum the values of the responses to items **Global01_PXR1, Global02_PXR1, Global03_PXR1, Global04_PXR1, PedGlobal02_PXR1, PedGlobal5_PXR1, and PedGlobal6_PXR1**. Retain the raw response score for items **Pf4fatigue3r** and **Pf2pain5r** for Fatigue and Pain Interference.
- Use the raw sum to T-score tables for the appropriate scale in Appendix 2. There are tables for the individual Fatigue and Pain Interference items as well.

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TRANSFORMING SCORES BETWEEN PED/PARENT PROXY V1.0 AND V3.0 GENPOP VERSIONS

To transform T-scores from Pediatric/Parent Proxy Scale v1.0 – Global Health 7+2 measures to the Pediatric/Parent Proxy GenPop v3.0 metric, rescore v1.0 measures using the [HealthMeasures Scoring Service](#) or Assessment Center API. This is the preferred strategy as it produces precise scores.

1. Download the v3.0 measure from [Search & View Measures](#) on HealthMeasures.net.
2. Follow the instructions for using the [HealthMeasures Scoring Service](#). Contact help@HealthMeasures.net if using the Assessment Center API for rescoring.

The crosswalk tables in Appendix 3 may also be used as a reference to guide understanding of how scores have shifted from the older v1.0 Global Health 7+2 measures to the v3.0 GenPop measures. If these tables are used to convert older T-scores to GenPop v3.0, please note that the resulting T-scores are not as precise as those generated by using HealthMeasures Scoring Service or Assessment Center API.

SCORES

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.* Thus, a person who has T-scores of 60 for the Global Physical Health or Global Mental Health scales is one standard deviation better (healthier) than the general population.

Standard Error (SE): A PROMIS score includes a T-score and a standard error (SE). The standard error is a measure of the variability for a given T-score across hypothetical repeated measurements. The standard error can be used to construct confidence intervals around a T-score. A 95% confidence interval is common. A 95% confidence interval means there is a 95% probability that the true T-score is within this range. The formula for a 95% confidence interval is $(T\text{-score} \pm (1.96 * SE))$. For example, if $T=52$ and $SE=2$, the lower boundary of the confidence interval is $(52 - (1.96 * 2)) = 48$ and the upper boundary is $(52 + (1.96 * 2)) = 56$.

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: 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

PROMIS Adult Scale v1.0/v1.1/v1.2 – Global Health

PROMIS Global Physical Health v1.0/v1.1/v1.2		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
4	16.2	4.8
5	19.9	4.7
6	23.5	4.5
7	26.7	4.3
8	29.6	4.2
9	32.4	4.2
10	34.9	4.1
11	37.4	4.1
12	39.8	4.1
13	42.3	4.2
14	44.9	4.3
15	47.7	4.4
16	50.8	4.6
17	54.1	4.7
18	57.7	4.9
19	61.9	5.2
20	67.7	5.9
*SE = Standard Error on T-score metric		

PROMIS Global Mental Health v1.0/v1.1/v1.2		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
4	21.2	4.6
5	25.1	4.1
6	28.4	3.9
7	31.3	3.7
8	33.8	3.7
9	36.3	3.7
10	38.8	3.6
11	41.1	3.6
12	43.5	3.6
13	45.8	3.6
14	48.3	3.7
15	50.8	3.7
16	53.3	3.7
17	56.0	3.8
18	59.0	3.9
19	62.5	4.2
20	67.6	5.3
*SE = Standard Error on T-score metric		

Hays, R. D., Bjorner, J., Revicki, R. A., Spritzer, K. L., & Cella, D. (2009). Development of physical and mental health summary scores from the Patient Reported Outcomes Measurement Information System (PROMIS) global items. *Quality of Life Research, 18*(7),873-80. (PMCID: PMC2724630)



PROMIS Adult Scale v1.2 – Global Health Physical 4a and Global Health Mental 4a

PROMIS Adult Scale v1.2 – Global Physical Health 4a		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
4	16.2	4.8
5	19.9	4.7
6	23.5	4.5
7	26.7	4.3
8	29.6	4.2
9	32.4	4.2
10	34.9	4.1
11	37.4	4.1
12	39.8	4.1
13	42.3	4.2
14	44.9	4.3
15	47.7	4.4
16	50.8	4.6
17	54.1	4.7
18	57.7	4.9
19	61.9	5.2
20	67.7	5.9
*SE = Standard Error on T-score metric		

PROMIS Adult Scale v1.2 – Global Mental Health 4a		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
4	21.2	4.6
5	25.1	4.1
6	28.4	3.9
7	31.3	3.7
8	33.8	3.7
9	36.3	3.7
10	38.8	3.6
11	41.1	3.6
12	43.5	3.6
13	45.8	3.6
14	48.3	3.7
15	50.8	3.7
16	53.3	3.7
17	56.0	3.8
18	59.0	3.9
19	62.5	4.2
20	67.6	5.3
*SE = Standard Error on T-score metric		

Hays, R. D., Bjorner, J., Revicki, R. A., Spritzer, K. L., & Cella, D. (2009). Development of physical and mental health summary scores from the Patient Reported Outcomes Measurement Information System (PROMIS) global items. *Quality of Life Research, 18(7)*,873-80. (PMCID: PMC2724630)

PROMIS Adult Scale v1.2 – Global Physical 2a and Global Mental 2a

PROMIS Global Health v1.2 - Physical 2a		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
2	23.4	5.5
3	29	5.1
4	33.4	4.9
5	37.3	4.8
6	41.1	4.8
7	45	5.1
8	50	5.4
9	56	5.9
10	63.3	7.1
*SE = Standard Error on T-score metric		

PROMIS Global Health v1.2 - Mental Health 2a		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
2	25.8	4.9
3	32	4.3
4	36.5	4.2
5	40.6	4.1
6	44.4	4.1
7	48.6	4.1
8	52.8	4.1
9	57.7	4.5
10	64.6	5.7
*SE = Standard Error on T-score metric		

Hays, R. D., Schalet, B. D., Spritzer, K. L., & Cella, D. (2017). Two-item PROMIS® global physical and mental health scales. *Journal of Patient-Reported Outcomes*, 1(1), 2.



PROMIS Pediatric Scale GenPop v3.0 – Global Health 7 and PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2

PROMIS Pediatric Scale GenPop v3.0 – Global Health 7		
Scale Conversion Table for first 7 Items		
Raw Score	T-score	SE*
7.0	16.0	3.4
8.0	17.1	3.6
9.0	18.3	3.7
10.0	19.7	3.8
11.0	21.2	3.8
12.0	22.8	3.7
13.0	24.4	3.6
14.0	26.1	3.6
15.0	27.6	3.5
16.0	29.2	3.5
17.0	30.8	3.5
18.0	32.4	3.6
19.0	34.0	3.6
20.0	35.6	3.6
21.0	37.2	3.6
22.0	38.8	3.6
23.0	40.4	3.6
24.0	42.1	3.7
25.0	43.9	3.7
26.0	45.7	3.6
27.0	47.5	3.6
28.0	49.2	3.6
29.0	51.1	3.7
30.0	53.3	3.9
31.0	55.7	4.2
32.0	58.3	4.5
33.0	61.1	4.9
34.0	64.2	5.4
35.0	67.5	6.1
*SE = Standard Error on T-score metric		

PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2		
Scale Conversion Table for Fatigue Item (2876R1r)		
Raw Score	T-Score	SE*
1	44.8	7.4
2	55.8	4.6
3	60.7	4.7
4	65.6	5.0
5	71.6	6.0
*SE = Standard Error on T-score metric		

PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2		
Scale Conversion Table for Pain Interference Item (3793R1r)		
Raw Score	T-Score	SE*
1	47.5	8.5
2	60.4	4.9
3	63.9	5.2
4	67.6	5.5
5	71.7	6.4
*SE = Standard Error on T-score metric		



PROMIS Early Childhood Parent-Report – Global Health 8a

PROMIS Early Childhood Parent-Report Scale v1.0 - Global Health 8a		
Short Form Conversion Table		
Raw Summed Score	T-Score	SE*
8	8.5	2.7
9	10.3	3.0
10	12.2	3.0
11	13.9	3.0
12	15.6	2.9
13	17.1	2.8
14	18.6	2.8
15	20.0	2.8
16	21.3	2.8
17	22.6	2.7
18	23.9	2.7
19	25.1	2.7
20	26.4	2.7
21	27.6	2.7
22	28.8	2.7
23	30.1	2.7
24	31.3	2.8
25	32.6	2.8
26	33.8	2.8
27	35.1	2.8
28	36.4	2.8
29	37.8	2.8
30	39.1	2.8
31	40.5	2.8
32	41.9	2.8
33	43.4	2.9
34	44.9	2.9
35	46.5	3.0
36	48.3	3.1
37	50.3	3.4
38	52.8	3.8
39	56.0	4.4
40	61.9	6.1
*SE = Standard Error on T-score metric		



PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7 and PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2

PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7		
Scale Conversion Table for first 7 items		
Raw Score	T-score	SE*
7	14.7	2.9
8	15.3	3.1
9	16	3.2
10	16.9	3.4
11	18.1	3.6
12	19.4	3.7
13	21	3.8
14	22.7	3.8
15	24.4	3.7
16	26.1	3.7
17	27.7	3.7
18	29.4	3.8
19	31.2	3.8
20	32.9	3.8
21	34.6	3.8
22	36.2	3.8
23	37.9	3.9
24	39.7	4
25	41.7	4
26	43.6	3.9
27	45.4	3.8
28	47.3	3.9
29	49.3	4.1
30	51.8	4.4
31	54.5	4.7
32	57.3	5
33	60.2	5.4
34	63.2	6
35	66.1	6.5
*SE = Standard Error on T-score metric		

PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2		
Scale Conversion Table for Fatigue Item (Pf4fatigue3r)		
Raw Score	T-Score	SE*
1	45.2	7.6
2	57.0	4.8
3	62.7	4.9
4	67.4	5.1
5	72.5	6.1
*SE = Standard Error on T-score metric		

PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2		
Scale Conversion Table for Pain Interference Item (Pf2pain5r)		
Raw Score	T-Score	SE*
1	48.1	8.7
2	62.8	5.4
3	67.8	5.8
4	72.2	6.4
5	75.7	7.1
*SE = Standard Error on T-score metric		

APPENDIX 2 — SCORING TABLES FOR RETIRED MEASURES

PROMIS Pediatric Scale v1.0 – Global Health 7 and PROMIS Pediatric Scale v1.0 – Global Health 7+2

PROMIS Pediatric Scale v1.0 – Global Health 7		
Scale Conversion Table for first 7 items		
Raw Score	T-score	SE*
7.0	16.0	3.4
8.0	17.1	3.6
9.0	18.3	3.7
10.0	19.7	3.8
11.0	21.2	3.8
12.0	22.8	3.7
13.0	24.4	3.6
14.0	26.1	3.6
15.0	27.6	3.5
16.0	29.2	3.5
17.0	30.8	3.5
18.0	32.4	3.6
19.0	34.0	3.6
20.0	35.6	3.6
21.0	37.2	3.6
22.0	38.8	3.6
23.0	40.4	3.6
24.0	42.1	3.7
25.0	43.9	3.7
26.0	45.7	3.6
27.0	47.5	3.6
28.0	49.2	3.6
29.0	51.1	3.7
30.0	53.3	3.9
31.0	55.7	4.2
32.0	58.3	4.5
33.0	61.1	4.9
34.0	64.2	5.4
35.0	67.5	6.1
*SE = Standard Error on T-score metric		

PROMIS Pediatric Scale v1.0 – Global Health 7+2		
Scale Conversion Table for Fatigue Item		
Raw Score	T-score	SE*
1	40.0	8.2
2	46.4	7.2
3	52.9	7.4
4	59.1	7.7
5	63.7	8.7
*SE = Standard Error on T-score metric		

PROMIS Pediatric Scale v1.0 – Global Health 7+2		
Scale Conversion Table for Pain Interference Item		
Raw Score	T-score	SE*
1	42.6	7.5
2	50.3	5.9
3	54.7	6.1
4	59.2	6.2
5	64.2	7.3
*SE = Standard Error on T-score metric		



PROMIS Parent Proxy Scale v1.0 – Global Health 7 and PROMIS Parent Proxy Scale v1.0 – Global Health 7+2

PROMIS Parent Proxy Scale v1.0 – Global Health 7		
Scale Conversion Table for first 7 items		
Raw Score	T-score	SE*
7	14.7	2.9
8	15.3	3.1
9	16	3.2
10	16.9	3.4
11	18.1	3.6
12	19.4	3.7
13	21	3.8
14	22.7	3.8
15	24.4	3.7
16	26.1	3.7
17	27.7	3.7
18	29.4	3.8
19	31.2	3.8
20	32.9	3.8
21	34.6	3.8
22	36.2	3.8
23	37.9	3.9
24	39.7	4
25	41.7	4
26	43.6	3.9
27	45.4	3.8
28	47.3	3.9
29	49.3	4.1
30	51.8	4.4
31	54.5	4.7
32	57.3	5
33	60.2	5.4
34	63.2	6
35	66.1	6.5
*SE = Standard Error on T-score metric		

PROMIS Parent Proxy Scale v1.0 – Global Health 7+2		
Scale Conversion Table for Fatigue Item		
Raw Score	T-score	SE*
1	40.15	7.07
2	48.94	5.81
3	56.07	5.99
4	62.62	6.22
5	68.12	7.24
*SE = Standard Error on T-score metric		

PROMIS Parent Proxy Scale v1.0 – Global Health 7+2		
Scale Conversion Table for Pain Interference Item		
Raw Score	T-score	SE*
1	43.25	7.19
2	53.05	4.99
3	58.51	5.17
4	63.48	5.32
5	68.78	6.37
*SE = Standard Error on T-score metric		

APPENDIX 3 – CROSSWALK BETWEEN PEDIATRIC AND PARENT PROXY V1.0 T-SCORES AND PEDIATRIC AND PARENT PROXY GENPOP V3.0 T-SCORES

Table 1. PROMIS Pediatric Global Health 7+2: Crosswalk between v1.0 T-scores and GenPop v3.0 T-scores

PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2			
Crosswalk Table for Fatigue Item (2876R1r)			
v1.0 T-Score	v3.0 GenPop T-Score	v1.0 T-Score	v3.0 GenPop T-Score
24	37.0	59	63.6
25	38.5	60	64.3
26	41.6	61	64.8
27	42.6	62	65.3
28	44.1	63	65.9
29	45.2	64	66.9
30	46.1	65	67.6
31	47.3	66	68.0
32	47.9	67	68.5
33	48.4	68	69.2
34	49.3	69	70.0
35	49.9	70	70.5
36	50.7	71	70.7
37	51.4	72	71.5
38	51.9	73	73.0
39	52.4	74	73.0
40	52.9	75	73.0
41	53.6	76	73.0
42	54.0	77	73.8
43	54.4	78	74.5
44	54.7	79	75.2
45	55.2		
46	55.9		
47	56.5		
48	57.0		
49	57.6		
50	58.0		
51	58.7		
52	59.3		
53	59.7		
54	60.3		
55	60.9		
56	61.7		
57	62.4		
58	63.1		

PROMIS Pediatric Scale GenPop v3.0 – Global Health 7+2			
Crosswalk Table for Pain Interference Item (3793R1r)			
v1.0 T-Score	v3.0 GenPop T-Score	v1.0 T-Score	v3.0 GenPop T-Score
33	43.0	68	76.5
34	48.9	69	78.0
35	48.9	70	79.0
36	49.5	71	79.5
37	51.1	72	80.0
38	52.2	73	81.5
39	53.3	74	83.0
40	54.6	75	85.5
41	55.8	76	85.5
42	56.9	77	85.5
43	57.9	78	85.5
44	59.1	79	85.5
45	60.0	80	85.5
46	60.5	81	85.5
47	61.1	82	85.5
48	62.1	83	88.0
49	63.5		
50	64.4		
51	64.7		
52	65.2		
53	65.8		
54	66.5		
55	67.7		
56	68.5		
57	69.1		
58	69.9		
59	70.9		
60	71.8		
61	72.5		
62	73.0		
63	73.3		
64	73.5		
65	74.5		
66	75.2		
67	75.5		

Table 2. PROMIS Parent Proxy Global Health 7+2: Crosswalk between v1.0 T-scores and GenPop v3.0 T-scores

PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2			
Scale Conversion Table for Fatigue Item (Pf4fatigue3r)			
v1.0 T-Score	v3.0 GenPop T-Score	v1.0 T-Score	v3.0 GenPop T-Score
29	37.0	64	68.0
30	38.5	65	68.8
31	39.0	66	70.0
32	41.8	67	70.0
33	42.9	68	71.0
34	44.6	69	72.0
35	45.6	70	72.5
36	46.4	71	73.0
37	47.8	72	73.5
38	48.8	73	73.5
39	49.5	74	74.0
40	50.4	75	76.0
41	51.2	76	76.0
42	52.1	77	76.0
43	52.9	78	78.0
44	53.4	79	80.0
45	54.1		
46	54.7		
47	55.6		
48	56.3		
49	56.9		
50	57.5		
51	58.4		
52	59.1		
53	59.6		
54	60.3		
55	61.4		
56	62.3		
57	62.9		
58	63.4		
59	64.2		
60	64.9		
61	65.6		
62	66.5		
63	67.3		

PROMIS Parent Proxy Scale GenPop v3.0 – Global Health 7+2			
Scale Conversion Table for Pain Interference Item (Pf2pain5r)			
v1.0 T-Score	v3.0 GenPop T-Score	v1.0 T-Score	v3.0 GenPop T-Score
37	45.0	72	85.0
38	50.5	73	87.0
39	50.5	74	87.0
40	50.5	75	87.0
41	51.0	76	87.0
42	53.6	77	87.0
43	54.6	78	87.0
44	56.0	79	87.0
45	57.0	80	87.0
46	58.5	81	89.0
47	59.4		
48	60.4		
49	61.7		
50	62.8		
51	64.0		
52	64.8		
53	65.6		
54	66.9		
55	67.7		
56	68.8		
57	69.7		
58	70.8		
59	71.8		
60	72.8		
61	73.8		
62	75.0		
63	75.8		
64	76.5		
65	77.5		
66	79.0		
67	79.0		
68	80.5		
69	83.0		
70	83.0		
71	83.0		



APPENDIX 4 — SAS CODE FOR SCORING PROMIS GLOBAL V1.0, V1.1, V1.2

**COLLAPSING AND RECODING fatigue (Global08), emotional distress
(Global10), and/or pain intensity (Global07)

USE FOR PROMIS GLOBAL v1.0 and GLOBAL v1.1

*****,

IF 1 LE Global10 LE 5 then Global10r=6-Global10;

IF 1 LE Global08 LE 5 then Global08r=6-Global08;

IF Global07 = 0 THEN Global07r=5;

ELSE IF 1 LE Global07 LE 3 THEN Global07r=4;

ELSE IF 4 LE Global07 LE 6 THEN Global07r=3;

ELSE IF 7 LE Global07 LE 9 THEN Global07r=2;

ELSE IF Global07=10 THEN Global07r=1;

USE FOR PROMIS GLOBAL 1.2 PAPER OR NON-HEALTHMEASURES OUTPUT

*****,

IF Global07r = 0 THEN Global07rc=5;

ELSE IF 1 LE Global07r LE 3 THEN Global07rc=4;

ELSE IF 4 LE Global07r LE 6 THEN Global07rc=3;

ELSE IF 7 LE Global07r LE 9 THEN Global07rc=2;

ELSE IF Global07r=10 THEN Global07rc=1;



APPENDIX 5 — SAS CODE TO ESTIMATE EQ-5D-3L

****ESTIMATE EQ-5D-3L FROM GLOBAL HEALTH ITEMS (REVICKI ET AL. 2009)****

****NOTE: UNLESS YOU ARE USING HEALTHMEASURES ELECTRONIC OUTPUT FOR V1.2, PLEASE ENSURE THAT YOU COLLAPSE AND RECODE FIRST (SEE APPENDIX 3)**

****USE FOR PROMIS GLOBAL v1.0****

*****,

EQ5D = 0.19123 + (0.00672 * Global02) + (0.00527 * Global03) +
(0.00830 * Global04) + (0.04550 * Global06) + (0.02713 * Global07r) +
(0.01305 * Global08r) + (0.00613 * Global09) + (0.02502 * Global10r);

****USE FOR PROMIS GLOBAL v1.1 or v1.2 HEALTHMEASURES ELECTRONIC OUTPUT ****

*****,

EQ5D = 0.19123 + (0.00672 * Global02) + (0.00527 * Global03) +
(0.00830 * Global04) + (0.04550 * Global06) + (0.02713 * Global07r) +
(0.01305 * Global08r) + (0.00613 * Global09r) + (0.02502 * Global10r);

****USE FOR PROMIS GLOBAL v1.2 PAPER/NON-HEALTHMEASURES OUTPUT****

*****,

EQ5D = 0.19123 + (0.00672 * Global02) + (0.00527 * Global03) +
(0.00830 * Global04) + (0.04550 * Global06) + (0.02713 * Global07rc) +
(0.01305 * Global08r) + (0.00613 * Global09r) + (0.02502 * Global10r);