

SEXUAL FUNCTION AND SATISFACTION SCORING MANUAL

A brief guide to scoring the PROMIS® Sexual Function and Satisfaction instruments:

ADULT
PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Female) PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Male) PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female) PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Male) PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Female) PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Male) PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Non-Sexually Active Female) PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Non-Sexually Active Male) PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female) PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Male) PROMIS Pool v2.0 – Sexual Function and Satisfaction: Anal Discomfort with Sexual Activity PROMIS Pool v2.0 – Sexual Function and Satisfaction: Bother Regarding Sexual Function (Female) PROMIS Pool v2.0 – Sexual Function and Satisfaction: Bother Regarding Sexual Function (Male) PROMIS Pool v2.0 – Sexual Function and Satisfaction: Factors Interfering with Sexual Satisfaction PROMIS Pool v2.0 – Sexual Function and Satisfaction: Screeners PROMIS Pool v2.0 – Sexual Function and Satisfaction: Sexual Activities (Female) PROMIS Pool v2.0 – Sexual Function and Satisfaction: Sexual Activities (Male) PROMIS Pool v2.0 – Sexual Function and Satisfaction: Therapeutic Aids for Sexual Activity (Female) PROMIS Pool v2.0 – Sexual Function and Satisfaction: Therapeutic Aids for Sexual Activity (Male) PROMIS Scale v2.0 – Sexual Function and Satisfaction: Erectile Function PROMIS Scale v2.0 – Sexual Function and Satisfaction: Interest in Sexual Activity PROMIS Scale v2.0 – Sexual Function and Satisfaction: Oral Discomfort with Sexual Activity PROMIS Scale v2.0 – Sexual Function and Satisfaction: Oral Dryness with Sexual Activity PROMIS Scale v2.0 – Sexual Function and Satisfaction: Orgasm – Ability PROMIS Scale v2.0 – Sexual Function and Satisfaction: Orgasm – Pleasure PROMIS Scale v2.0 – Sexual Function and Satisfaction: Satisfaction with Sex Life PROMIS Scale v2.0 – Sexual Function and Satisfaction: Vaginal Discomfort with Sexual Activity PROMIS Scale v2.0 – Sexual Function and Satisfaction: Vaginal Lubrication for Sexual Activity PROMIS Scale v2.0 – Sexual Function and Satisfaction: Vulvar Discomfort with Sexual Activity – Clitoral PROMIS Scale v2.0 – Sexual Function and Satisfaction: Vulvar Discomfort with Sexual Activity – Labial PROMIS Bank v1.0 – Sexual Function and Satisfaction: Global Satisfaction with Sex Life* PROMIS Bank v1.0 – Sexual Function and Satisfaction: Interest in Sexual Activity* PROMIS Bank v1.0 – Sexual Function and Satisfaction: Lubrication* PROMIS Bank v1.0 – Sexual Function and Satisfaction: Vaginal Discomfort* PROMIS Bank v1.0 – Sexual Function and Satisfaction: Erectile Function* PROMIS Pool v1.0 – Sexual Function and Satisfaction: Orgasm* PROMIS Pool v1.0 – Sexual Function and Satisfaction: Interfering Factors* PROMIS Pool v1.0 – Sexual Function and Satisfaction: Therapeutic Aids* PROMIS Pool v1.0 – Sexual Function and Satisfaction: Sexual Activities* PROMIS Pool v1.0 – Sexual Function and Satisfaction: Anal Discomfort* PROMIS Pool v1.0 – Sexual Function and Satisfaction: Screener Items* PROMIS Sexual Function Profile v1.0 (Female)* PROMIS Sexual Function Profile v1.0 (Male)* PROMIS Sexual Function Profile v1.0 (Male and Female)*

*Retired measure

INTRODUCTION

This document describes multiple methods for scoring PROMIS Sexual Function and Satisfaction (SexFS) v2.0 profile instruments. Information on scoring earlier versions of these measures is included in Appendices C and D (Pages 34-39). In addition to the profile measures are a number of scales (i.e., collections of items for a given domain) about aspects of sexual function and satisfaction. Users should select a subset of items from a scale for administration. Because the PROMIS SexFS scales are intended to be used to create custom short forms, manual scoring instructions need to be tailored to that specific short form. It is possible to use existing scoring software. See Scoring Full Scales and Custom Short Forms below for more information.

PROMIS SexFS Profile Scores

The Brief and Full Profile measures assess multiple domains of sexual function and satisfaction. Consequently, these measures produce multiple scores (e.g., vaginal lubrication, erectile function). Sometimes a domain doesn't produce a score but is instead intended to be used descriptively (e.g., Reasons for No Sexual Activity).

COMPARING SCORES ACROSS VERSIONS

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.** For Sexual Function and Satisfaction, v2.0 is recommended.

Scores from v1.0 measures should not be compared to scores from v2.0 measures. Those who have administered items from the SexFS v1.0 and wish to use v2.0 scoring should contact the developers for more information.

IMPROVEMENTS IN V2.0 MEASURES

Building on v1.0 of the PROMIS Sexual Function and Satisfaction measure (SexFS), a comprehensive development process was undertaken to create an expanded and improved PROMIS SexFS v2.0. These measures assess multiple components of sexual functioning, and the validation process included a strong focus on inclusiveness with regard to literacy level, race, age, sexual orientation, and health conditions. Whereas v1.0 was developed exclusively with cancer patients, v2.0 retains the content validity for cancer patients and expands on it, making v2.0 a better measure.

Several features of SexFS v2.0 are consistent with v1.0. The measurement system is modular and customizable in that users need only measure those sexual function domains of relevance to their particular study or sample. One important change from v1.0 to 2.0 is that scores are now expressed using a meaningful metric, with scores centered around norms for the population of sexually active US adults. Norms are provided herein for age and sex to aid in the interpretation of SexFS scores. Also, differential item functioning (DIF) was examined by gender, sexual activity, and age to assess the appropriateness of items across different groups of people. Finally, the v2.0 domains demonstrated good convergent and known groups validity and reliability. The final set of items is applicable for both men and women, those sexually active with a partner and without, and those who identify as heterosexual or straight, lesbian, gay, or bisexual.

More information about the differences between v1.0 and v2.0 measures is in the **PROMIS Sexual Function and Satisfaction Measure Differences** document. It also includes a description of differences between the numerous PROMIS SexSF profile measures.

SCORING THE INSTRUMENTS

PREFERRED SCORING METHOD: RESPONSE PATTERN SCORING

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), the Assessment Center API, or a digital administration platform that automatically calculates scores (e.g., REDCap auto-score). This method of scoring uses responses to each item for each participant. We refer to this as “**response pattern scoring**.” Response pattern scoring is preferred because it is more accurate than the use of a table that transforms a summed raw score into a T-score. Response pattern scoring is especially useful when there are missing data (i.e., a respondent skipped an item), different groups of participants responded to different items, or you have created a new custom short form using a subset of questions from a PROMIS item bank or scale.

Response pattern scoring can be used for SexFS scales, custom short forms, v1.0 profiles, and v2.0 profiles using the [HealthMeasures Scoring Service](#). A video tutorial provides instructions for using the HealthMeasures Scoring Service to score PROMIS measures (<https://www.youtube.com/watch?v=KM2FqYoS--A>). Note that whether or not you administered the full scale, a profile, or created a custom short form with a subset of items from a given scale, select “Existing Short Form or Profile” as the measure type in the HealthMeasures Scoring Service.

For some PROMIS SexFX domains, the scoring tables in this manual reflect response pattern scoring. These domains include one or two items. The tables list all items and every possible combination of responses along with the corresponding T-score and standard error.

For other PROMIS SexFX domains, the scoring tables in this manual do NOT reflect response pattern scoring. These tables include the sum of all responses to items from a given domain (e.g., vaginal lubrication) along with a corresponding T-score and standard error.

SEXUAL FUNCTION AND SATISFACTION (SexFS) VERSION 2.0

OPTIONS FOR SCORING THE BRIEF AND FULL PROFILES

PROMIS Profile Instruments	Scoring Options
PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Female) PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Male)	Preferred: Use the HealthMeasures Scoring Service, Assessment Center API, or administration platform that automatically produces scores for calibrated domains.* These tools use response pattern scoring. Alternative: Use the scoring tables in Appendix A, which provide the SexFS T-score for any combination of item responses for each domain. The tables reflect response pattern scoring unless there is a note indicating they are not item response theory (IRT) calibrated.
PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Female) PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Male)	These Profiles are comprised of the standalone “Sexually Active” profiles plus a sexual activity screening item and item about reasons for no sexual activity. As such, <u>only the “Sexually Active” section can be scored</u>. The remaining two items do not produce scores and are intended only to provide additional descriptive information. Preferred: Use the HealthMeasures Scoring Service, Assessment Center API, or administration platform that automatically produces scores for calibrated domains.* These tools use response pattern scoring. See Appendix B for instructions for the HealthMeasures Scoring Service. Alternative: Use the scoring tables in Appendix A, which provide the SexFS T-score for any combination of item responses for each domain. The tables reflect response pattern scoring unless there is a note indicating they are not item response theory (IRT) calibrated.
PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Female) PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Male)	Preferred: Use the HealthMeasures Scoring Service, Assessment Center API, or administration platform that automatically produces scores for calibrated domains.* These tools use response pattern scoring. Alternative: Use the scoring tables in Appendix A. The tables that list all items in a domain with all possible response combinations reflect response pattern scoring (i.e., Vaginal Discomfort, Vulvar Discomfort – Labial, Vulvar Discomfort – Clitoral, Orgasm - Pleasure, Oral Discomfort, Oral Dryness). The remaining tables use an alternative approach to scoring either because listing all possible responses to all items was too onerous for longer short forms or the items themselves are uncalibrated. These tables (i.e., Orgasm – Ability, Interest in Sexual Activity, Lubrication, Erectile Function, Anal Discomfort, Satisfaction with Sex Life) transform a raw summed score for a given domain into a SexFS T-score. Note that this approach does not result in as precise a score as the response pattern scoring method. The directions below (Instructions for Using the Scoring Tables in Appendix A) specify how to use the summed score look-up tables in Appendix A to score the SexFS Full Profiles.
PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Female) PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Male)	These Profiles are comprised of the standalone “Sexually Active” and “Non-Sexually Active” full profiles. As such, <u>only the “Sexually Active” section of each Profile can be scored</u>. The Non-Sexually Active section does not produce scores and is intended only to provide additional descriptive information. Preferred: Use the HealthMeasures Scoring Service, Assessment Center API, or administration platform that automatically produces scores for calibrated domains.* These tools use response pattern scoring. See Appendix B for instructions for the HealthMeasures Scoring Service.

	Alternative: Use the scoring tables in Appendix A. The tables that list all items in a domain with all possible response combinations reflect response pattern scoring (i.e., Vaginal Discomfort, Vulvar Discomfort – Labial, Vulvar Discomfort – Clitoral, Orgasm - Pleasure, Oral Discomfort, Oral Dryness). The remaining tables use an alternative approach to scoring either because listing all possible responses to all items was too onerous for longer short forms or the items themselves are uncalibrated. These tables (i.e., Orgasm – Ability, Interest in Sexual Activity, Lubrication, Erectile Function, Anal Discomfort, Satisfaction with Sex Life) transform a raw summed score for a given domain into a SexFS T-score. Note that this approach does not result in as precise a score as the response pattern scoring method. The directions below (Instructions for Using the Scoring Tables in Appendix A) specify how to use the summed score look-up tables in Appendix A to score the SexFS Full Profiles.
PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Non-Sexually Active Female) PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Non-Sexually Active Male)	The Full Profiles for Non-Sexually Active respondents are comprised of a combination of uncalibrated and screener items. Therefore, these instruments do not produce summary scores and are intended only to provide additional descriptive information.

*Uncalibrated scored domains including Orgasm-Ability, Interest in Sexual Activity, and Anal Discomfort with Sexual Activity do not produce summary scores in HealthMeasures Scoring Service, Assessment Center API, or administration platforms that use the Assessment Center API (e.g., REDCap, Epic PROMIS CAT Application). If a summary score is desired, use the appropriate tables in **Appendix A**.

INSTRUCTIONS FOR USING THE SCORING TABLES IN APPENDIX A

Step 1: For each domain, determine if you need to calculate a summed raw score.

- Find the profile you are using in **Appendix A**.
- For domains that include columns labeled with item IDs (e.g., SFVAG202 and SFVAG206), use the raw score for each item. Skip to Step 3.
- For domains that include a single item, use the raw score. These tables will have raw score values ranging from 1 to 5. Skip to Step 3.
- For domains that include multiple items and the “Raw Score” column starts with a value of at least 2, you will need to create a summed raw score (see step 2). For example, Interest in Sexual Activity’s first raw score option is 2 (the sum of responses to 2 items).

Step 2: Create a summed raw score.

- Identify if all items were answered. If a respondent skipped an item, no score can be produced using the scoring tables in this manual. However, you can use the HealthMeasures Scoring Service (https://www.assessmentcenter.net/ac_scoringervice) to generate a final score for calibrated domains when a respondent has skipped an item.
- Identify if the response indicating the item is not applicable was selected. If so, no score can be produced. These responses can be identified by having a raw response score of 0. For example, if a respondent only answered one of two Satisfaction with Sex Life items, a valid Satisfaction with Sex Life

score cannot be produced. If a respondent answered the Orgasm – Ability item by selecting “Have not tried to have an orgasm/climax in the past 30 days,” a valid Orgasm – Ability score cannot be produced.

- After confirming all items in a given domain were answered without endorsing a “not applicable” response (identified by a score of 0), add up the response scores to all items in that domain. This is the raw summed score for that domain. For example, for a 4-item Satisfaction with Sex Life short form, the raw summed score can range from 4 to 20.

Step 3: Use the raw score/T-Score look-up tables in Appendix A.

- Locate the applicable raw score/T-score look-up table in Appendix A.
- Use the tables to translate the domain’s raw response scores or summed raw score (whichever is applicable) 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.
 - As an example, for the Satisfaction with Sex Life domain in the Full Profile, a raw summed score of 6 converts to a T-score of 37.6 with a standard error (SE) of 2.0 (see scoring table in Appendix A).
- Report the standardized T-score as the final score for each participant for each domain. Use T-scores in statistical analyses.

INSTRUCTIONS FOR SCORING UNCALIBRATED SCORED DOMAINS

In Table 1, there are some domains that are uncalibrated but scored. These include:

- Orgasm – Ability
- Interest in Sexual Activity
- Anal Discomfort with Sexual Activity

Because Orgasm – Ability only includes one item, it was not possible to use Item Response Theory. Therefore, this item does not produce a T-score in a digital administration platform or in the HealthMeasures Scoring Service. Use the table included in Appendix A to transform the 1 to 5 response score to a T-score. This T-score is a simple transformation of the observed average score centered by the general population weighted mean and standard deviation.

Similarly, because Interest in Sexual Activity only includes two items, it was not possible to use Item Response Theory. Therefore, this domain does not produce a T-score in a digital administration platform or in the HealthMeasures Scoring Service. Use the table included in Appendix A to transform the sum of the responses to the two items (range 2 to 10) to a T-score. The T-score is a simple transformation of the observed average score centered by the general population weighted mean and standard deviation. If you administer only one Interest in Sexual Activity item, it is not possible to produce a T-score.

Anal Discomfort with Sexual Activity includes six items. Until additional data can be collected from samples with varying degrees of anal discomfort, Item Response Theory cannot be applied. Consequently, this domain does not produce a T-score in a digital administration platform or in the HealthMeasures Scoring Service. It is possible, however, to calculate a summary score. See Weinfurt et al. 2015 for more information.

- If you administered the two items included in the Full Profile (Male) and Full Profile (Sexually Active Male), use the table included in Appendix A to transform the sum of the responses to the two items (range 2 to 10) to a T-score.

- If you would like an Anal Discomfort and Pain with Sexual Activity score, average the raw response scores to the four items measuring discomfort and pain.
- If you would like an Anal Bleeding with Sexual Activity score, average the raw response scores to the two items that measure bleeding.
- If you would like a composite score (includes all six items) that gives greater weight to discomfort/pain than to bleeding (Cronbach's $\alpha = 0.93$), average the raw response scores from all six items.
- If you would like a composite score (includes all six items) that gives equal weight to discomfort/pain and to bleeding, 1) calculate the average of the 4 discomfort/pain items, 2) calculate the average of the 2 bleeding items, 3) average the two averages.

INSTRUCTIONS FOR UNSCORED DOMAINS

In Table 1, there are some domains that unscored. These include:

- Bother Regarding Sexual Function
Factors Interfering with Sexual Satisfaction
- Therapeutic Aids for Sexual Activity
- Sexual Activities
- Sexual Function Screener Items (includes Reasons For No Sexual Activity)

These domains are collections of individual items that each measure an individual concept. Accordingly, the raw responses to the individual item should be taken as the score for that item. These domains do not produce summary scores. Instead, they are intended to be used descriptively. For example, some profiles include an item asking for the reasons a person has not had sexual activity in the past 30 days. This item could be used by researchers to differentiate among respondents who did not have activity due to a sexual concern of interest (e.g., difficulty getting erections) versus those who did not have activity for other reasons (e.g., partner not available).

INSTRUCTIONS FOR SCORING FULL SCALES AND CUSTOM SHORT FORMS

If you administered a full calibrated scale or a custom short form comprised of calibrated items, use the HealthMeasures Scoring Service (https://www.assessmentcenter.net/ac_scoring-service) to calculate a score using response pattern scoring. Table 1 displays what domains are calibrated and therefore able to generate T-scores in the HealthMeasures Scoring Service.

- Note that whether or not you administered the full scale or created a custom short form with a subset of items from a given scale, select "Existing Short Form or Profile" as the measure type in the HealthMeasures Scoring Service.
- Score one domain at a time (e.g., Satisfaction with Sex Life).
- Watch the video tutorial that provides instructions for using the HealthMeasures Scoring Service to score PROMIS measures (<https://www.youtube.com/watch?v=KM2FqYoS--A>).

Table 1. PROMIS SexFS v2.0 Domains

Domain	# of items	Calibrated or Uncalibrated ^a	Scored ^b	Requires Activity Screener? ^c	In Health-Measures Scoring Service?
Satisfaction with Sex Life	5	Calibrated	Scored	Yes	Yes
Vaginal Lubrication for Sexual Activity	6	Calibrated	Scored	Yes	Yes
Vaginal Discomfort with Sexual Activity	11	Calibrated	Scored	Yes	Yes
Erectile Function	11	Calibrated	Scored	Yes	Yes
Vulvar Discomfort with Sexual Activity – Labial	4	Calibrated	Scored	Yes	Yes
Vulvar Discomfort with Sexual Activity – Clitoral	4	Calibrated	Scored	Yes	Yes
Oral Discomfort with Sexual Activity	6	Calibrated	Scored	Yes	Yes
Oral Dryness with Sexual Activity	3	Calibrated	Scored	Yes	Yes
Orgasm – Pleasure	3	Calibrated	Scored	Yes	Yes
Orgasm – Ability	1	Uncalibrated	Scored	Yes	No
Interest in Sexual Activity	2	Uncalibrated	Scored	No	No
Bother Regarding Sexual Function	11	Uncalibrated	Unscored	No	No
Factors Interfering with Sexual Satisfaction	35	Uncalibrated	Unscored	No	No
Therapeutic Aids for Sexual Activity	7	Uncalibrated	Unscored	No	No
Sexual Activities	15	Uncalibrated	Unscored	No	No
Anal Discomfort with Sexual Activity	6	Uncalibrated	Scored	Yes	No
Sexual Function Screener Items (includes Reasons For No Sexual Activity)	5	Screener	Unscored	No	No

^aRefers to whether the domain consists of IRT-calibrated items or not. ^bIndicates whether T-scores centered around U.S. population means are available. ^cIndicates whether domain is only intended for sexually active adults.

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Table 2. Comparison of PROMIS SexFS v2.0 Profiles by Domain and Item Count

PROMIS Profile Instrument		Sexual Function and Satisfaction Subdomains														Item Totals
		Interest in Sexual Activity	Sexual Activity Screener	Reasons for No Sexual Activity	Vaginal Lubrication	Vaginal Discomfort	Labial Discomfort	Clitoral Discomfort	Erectile Function	Orgasm Ability	Orgasm Pleasure	Satisfaction with Sex Life	Oral Discomfort	Oral Dryness	Anal Discomfort	
Female Respondents	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Female)	2	1	1	2	2	1	1	--	1	1	2	--	--	--	14
	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Female)	2	--	--	2	2	1	1	--	1	1	2	--	--	--	12
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Female)	2	1	1	3	2	2	2	--	1	2	4	2	2	2	26
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Non-Sexually Active Female)	2	--	1	--	--	--	--	--	--	--	--	--	--	--	3
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Female)	2	--	--	3	2	2	2	--	1	2	4	2	2	2	24
Male Respondents	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Male)	2	1	1	--	--	--	--	2	1	1	2	--	--	--	10
	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Male)	2	--	--	--	--	--	--	2	1	1	1	--	--	--	7
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Male)	2	1	1	--	--	--	--	3	1	2	4	2	2	2	20
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Non-Sexually Active Male)	2	--	1	--	--	--	--	--	--	--	--	--	--	--	3
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Male)	2	--	--	--	--	--	--	3	1	2	4	2	2	2	18

Table 3. Comparison of PROMIS SexFS v2.0 Profiles by Domain and Item ID

PROMIS Profile Instrument		Sexual Function and Satisfaction Subdomains													
		Interest in Sexual Activity	Sexual Activity Screener	Reasons for No Sexual Activity	Vaginal Lubrication	Vaginal Discomfort	Labial Discomfort	Clitoral Discomfort	Erectile Function	Orgasm Ability	Orgasm Pleasure	Satisfaction with Sex Life	Oral Discomfort	Oral Dryness	Anal Discomfort
Female Respondents	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Female)	SFINT101, SFINT201	SFSCR202	SFSCR204bpf	SFLUB001r, SFLUB004r	SFVAG202, SFVAG206	SFVUL203	SFVUC203	--	SFOGA201	SFOGP203	SFSAT101, SFSAT102r	--	--	--
	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Female)	SFINT101, SFINT201	--	--	SFLUB001r, SFLUB004r	SFVAG202, SFVAG206	SFVUL203	SFVUC203	--	SFOGA201	SFOGP203	SFSAT101, SFSAT102r	--	--	--
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Female)	SFINT101, SFINT201	SFSCR202	SFSCR204bpf	SFLUB001r, SFLUB002r, SFLUB004r	SFVAG202, SFVAG206	SFVUL203, SFVUL204	SFVUC203, SFVUC204	--	SFOGA201	SFOGP203, SFOGP201	SFSAT101, SFSAT102r, SFSAT103, SFSAT201	SFODS201, SFODS202	SFODR202, SFODR203	SFANA102r, SFANA202
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Non-Sexually Active Female)	SFINT101, SFINT201	--	SFSCR204bpf	--	--	--	--	--	--	--	--	--	--	--
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Female)	SFINT101, SFINT201	--	--	SFLUB001r, SFLUB002r, SFLUB004r	SFVAG202, SFVAG206	SFVUL203, SFVUL204	SFVUC203, SFVUC204	--	SFOGA201	SFOGP203, SFOGP201	SFSAT101, SFSAT102r, SFSAT103, SFSAT201	SFODS201, SFODS202	SFODR202, SFODR203	SFANA102r, SFANA202
Male Respondents	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Male)	SFINT101, SFINT201	SFSCR202	SFSCR204bpm	--	--	--	--	SFEFN005r, SFEFN008r	SFOGA201	SFOGP203	SFSAT101, SFSAT102r	--	--	--
	PROMIS Brief Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Male)	SFINT101, SFINT201	--	--	--	--	--	--	SFEFN005r, SFEFN008r	SFOGA201	SFOGP203	SFSAT101, SFSAT102r	--	--	--
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Male)	SFINT101, SFINT201	SFSCR202	SFSCR204bpm	--	--	--	--	SFEFN005r, SFEFN006, SFEFN008r	SFOGA201	SFOGP203, SFOGP201	SFSAT101, SFSAT102r, SFSAT103, SFSAT201	SFODS201, SFODS202	SFODR202, SFODR203	SFANA102r, SFANA202
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Non-Sexually Active Male)	SFINT101, SFINT201	--	SFSCR204bpm	--	--	--	--	--	--	--	--	--	--	--
	PROMIS Full Profile v2.0 - Sexual Function and Satisfaction (Sexually Active Male)	SFINT101, SFINT201	--	--	--	--	--	--	SFEFN005r, SFEFN006, SFEFN008r	SFOGA201	SFOGP203, SFOGP201	SFSAT101, SFSAT102r, SFSAT103, SFSAT201	SFODS201, SFODS202	SFODR202, SFODR203	SFANA102r, SFANA202

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.* For positively-worded concepts like Satisfaction with Sex Life, a T-score of 60 is one SD better than average. By comparison, a Satisfaction with Sex Life T-score of 40 is one SD worse than average.

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 $(52 + (1.96 * 2) = 56)$.

INTRODUCTORY VIDEO

An introductory video about the PROMIS SexFS v2.0 can be found here:

https://www.youtube.com/watch?v=CQwo_2GlaJA

VALIDITY

Multiple types of validity have been evaluated and results are described in the main development paper:

Weinfurt KP, Lin L, Bruner DW, Cyranowski JM, Dombek CB, Hahn EA, et al. Development and Initial Validation of the PROMIS® Sexual Function and Satisfaction Measures Version 2.0. *J Sex Med.* 2015;12(9):1961-74. doi: 10.1111/jsm.12966. PubMed PMID: 26346418.

FREQUENTLY ASKED QUESTIONS (FAQ)

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

Review the HealthMeasures website at www.healthmeasures.net.

Q: Is the SexFS appropriate for LGBT populations?

Self-identified lesbian, gay, and bisexual individuals were engaged in the development process in focus groups, cognitive interviews, and item testing, and item wording is generally appropriate regardless of sexual orientation. However, transgender participants were not a particular focus for the v1.0 or v2.0 measure validation efforts; additional work will be needed to demonstrate validity for transgender participants.

Q: I'm worried that patients might be too embarrassed or offended to answer some of these questions. What has been the experience of PROMIS with this measure?

In testing v1.0 of this measure in a large population of patients with cancer, there were no more missing data on the sexual function measure than other measures on different topics that were being tested simultaneously (e.g., sleep quality, cognitive function, and illness impact). Since then, v2.0 was tested in additional populations

and settings and missing data have not been a significant problem. Skipped items can be minimized by informing study participants at the outset that your study will be asking about different domains of health that are important to understand, including (for example) physical function, sleep, sexual function, and fatigue.

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 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.

Q: Can I compare adult PROMIS SexFS v1.0 and v2.0 scores if the calibrations changed?

Those who have administered items from the SexFS v1.0 and wish to use v2.0 scoring should contact the developers (Weinfurt and Flynn) for more information.

Appendix A—Scoring Tables for the Brief and Full Sexual Function v2.0 Profiles

Brief Profile (Female) and Brief Profile (Sexually Active Female) v2.0

Page 1 of 3

Interest in Sexual Activity Short Form Conversion Table	
Raw Score	T-Score
2	21.9
3	27.4
4	32.9
5	38.4
6	43.9
7	49.4
8	54.8
9	60.3
10	65.8

Orgasm – Pleasure Short Form Conversion Table		
Raw Score	T-Score	SE ¹
1	27.5	4.3
2	34.1	3.1
3	40.2	3.3
4	47.5	3.5
5	58.6	6.2

¹SE: Standard Error

Note: This domain has not been IRT calibrated because it only has 2 items. For any domain that not calibrated, 1) there is no difference in T-Scores between response patterns 1-2 vs 2-1 etc., so summed score is used instead of pattern; 2) There is no SE associated with T-Score since the T-Score is a simple transformation of the observed average score (centered by the general population weighted mean and SD).

Orgasm – Ability Short Form Conversion Table	
Raw Score	T-Score
1	20.8
2	30.2
3	39.6
4	49.0
5	58.4

Note: This domain has not been IRT calibrated because it only has 1 item. There is no SE associated with the T-Score since the T-Score is a simple transformation of the observed average score (centered by the general population weighted mean and SD).

Brief Profile (Female) and Brief Profile (Sexually Active Female) v2.0

Page 2 of 3

Satisfaction with Sex Life Short Form Conversion Table			
SFSAT101	SFSAT102	T-Score	SE ¹
1	1	31.6	4.5
1	2	37.1	2.5
1	3	39.9	2.8
1	4	43.1	3.8
1	5	46.2	5.3
2	1	37.6	2.5
2	2	39.8	2.1
2	3	42.3	2.3
2	4	45.2	3.0
2	5	48.3	4.3
3	1	40.5	3.1
3	2	42.5	2.5
3	3	45.3	2.4
3	4	48.4	2.5
3	5	51.7	3.3
4	1	44.7	4.2
4	2	46.2	3.3
4	3	48.7	2.6
4	4	51.9	2.5
4	5	55.4	2.6
5	1	48.8	5.5
5	2	50.0	4.6
5	3	52.2	3.5
5	4	55.7	2.7
5	5	62.7	5.2

¹SE: Standard Error

Vaginal Lubrication for Sexual Activity Short Form Conversion Table			
SFLUB004	SFLUB001	T-Score	SE ¹
1	1	27.6	4.5
1	2	32.0	3.8
1	3	34.2	4.2
1	4	35.8	4.9
1	5	37.7	5.9
2	1	33.1	3.3
2	2	35.4	3.1
2	3	37.2	3.4
2	4	38.8	3.9
2	5	40.7	4.9
3	1	36.2	3.3
3	2	38.0	3.0
3	3	39.5	3.0
3	4	41.1	3.4
3	5	43.1	4.3
4	1	40.3	4.0
4	2	41.8	3.5
4	3	43.4	3.3
4	4	45.4	3.4
4	5	48.1	3.8
5	1	47.4	4.9
5	2	48.1	4.5
5	3	49.2	4.2
5	4	51.2	4.0
5	5	58.4	6.5

¹SE: Standard Error

Brief Profile (Female) and Brief Profile (Sexually Active Female) v2.0

Page 3 of 3

Vaginal Discomfort for Sexual Activity Short Form Conversion Table			
SFVAG202	SFVAG206	T-Score	SE ¹
1	1	43.3	6.6
1	2	52.8	2.6
1	3	55.6	3.4
1	4	56.8	4.3
1	5	57.3	4.8
2	1	53.3	2.6
2	2	56.9	2.5
2	3	60.4	2.5
2	4	62.5	3.1
2	5	63.6	3.9
3	1	57.3	3.2
3	2	60.9	2.4
3	3	63.8	2.2
3	4	66.4	2.4
3	5	68.3	3.1
4	1	59.8	4.4
4	2	63.7	3.0
4	3	66.8	2.3
4	4	69.9	2.4
4	5	73.0	2.5
5	1	61.9	5.7
5	2	66.2	4.2
5	3	69.9	3.1
5	4	73.6	2.5
5	5	78.1	3.4

¹SE: Standard Error

Vulvar Discomfort with Sexual Activity – Labial Short Form Conversion Table		
Raw Score	T-Score	SE ¹
1	47.4	8.2
2	62.7	3.2
3	67.9	3.1
4	72.1	3.1
5	77.3	4.0

¹SE: Standard Error

Vulvar Discomfort with Sexual Activity – Clitoral Short Form Conversion Table		
Raw Score	T-Score	SE ¹
1	48.2	8.6
2	65.0	3.4
3	70.4	3.5
4	76.4	4.3

Note: To score the item, responses “Quite a bit” and “A lot” are combined and to be scored as a 4.

Brief Profile (Male) and Brief Profile (Sexually Active Male) v2.0

Page 1 of 2

Interest in Sexual Activity Short Form Conversion Table	
Raw Score	T-Score
2	21.9
3	27.4
4	32.9
5	38.4
6	43.9
7	49.4
8	54.8
9	60.3
10	65.8

Note: This domain has not been IRT calibrated because it only has 2 items. For any domain that not calibrated, 1) there is no difference in T-Scores between response patterns 1-2 vs 2-1 etc., so summed score is used instead of pattern; 2) There is no SE associated with T-Score since the T-Score is a simple transformation of the observed average score (centered by the general population weighted mean and SD).

Orgasm – Ability Short Form Conversion Table	
Raw Score	T-Score
1	20.8
2	30.2
3	39.6
4	49.0
5	58.4

Note: This domain has not been IRT calibrated because it only has 1 item. There is no SE associated with the T-Score since the T-Score is a simple transformation of the observed average score (centered by the general population weighted mean and SD).

Orgasm – Pleasure Short Form Conversion Table		
Raw Score	T-Score	SE ¹
1	27.5	4.3
2	34.1	3.1
3	40.2	3.3
4	47.5	3.5
5	58.6	6.2

¹SE: Standard Error

Erectile Function Short Form Conversion Table			
SFEFN005r	SFEFN008r	T-Score	SE ¹
1	1	28.7	4.1
1	2	34.3	2.4
1	3	36.6	2.7
1	4	38.8	3.1
1	5	42.6	4.0
2	1	33.5	2.5
2	2	36.2	2.1
2	3	38.2	2.1
2	4	40.1	2.5
2	5	43.5	3.4
3	1	35.5	2.6
3	2	37.7	2.1
3	3	39.4	1.9
3	4	41.2	2.2
3	5	44.3	3.0
4	1	37.0	3.0
4	2	39.2	2.3
4	3	40.8	2.0
4	4	42.7	2.1
4	5	45.8	2.7
5	1	39.2	3.8
5	2	41.3	3.0
5	3	42.8	2.6
5	4	45.2	2.5
5	5	55.7	6.9

¹SE: Standard Error

Brief Profile (Male) and Brief Profile (Sexually Active Male) v2.0

Page 2 of 2

Satisfaction with Sex Life Short Form Conversion Table			
SFSAT101	SFSAT102	T-Score	SE ¹
1	1	31.6	4.5
1	2	37.1	2.5
1	3	39.9	2.8
1	4	43.1	3.8
1	5	46.2	5.3
2	1	37.6	2.5
2	2	39.8	2.1
2	3	42.3	2.3
2	4	45.2	3.0
2	5	48.3	4.3
3	1	40.5	3.1
3	2	42.5	2.5
3	3	45.3	2.4
3	4	48.4	2.5
3	5	51.7	3.3
4	1	44.7	4.2
4	2	46.2	3.3
4	3	48.7	2.6
4	4	51.9	2.5
4	5	55.4	2.6
5	1	48.8	5.5
5	2	50.0	4.6
5	3	52.2	3.5
5	4	55.7	2.7
5	5	62.7	5.2

¹SE: Standard Error

Full Profile (Female) and Full Profile (Sexually Active Female) v2.0

Page 1 of 6

Interest in Sexual Activity Short Form Conversion Table	
Raw Score	T-Score
2	21.9
3	27.4
4	32.9
5	38.4
6	43.9
7	49.4
8	54.8
9	60.3
10	65.8

Lubrication Short Form Conversion Table		
Raw Score	T-Score	SE
3	25.7	4.1
4	30.2	2.9
5	32.6	2.7
6	34.5	2.7
7	36.2	2.7
8	38.0	2.7
9	39.9	3.0
10	41.9	3.1
11	43.7	3.2
12	45.7	3.2
13	48.3	3.3
14	51.8	3.6
15	59.3	6.2

Full Profile (Female) and Full Profile (Sexually Active Female) v2.0

Page 2 of 6

Vaginal Discomfort Short Form Conversion Table			
SFVAG202	SFVAG203	T-Score	SE
1	1	43.1	6.5
1	2	52.5	2.5
1	3	55.2	3.3
1	4	56.3	4.2
1	5	56.8	4.7
2	1	53.0	2.4
2	2	56.6	2.4
2	3	60.0	2.4
2	4	62.1	3
2	5	63.2	3.7
3	1	57.2	3.1
3	2	60.5	2.3
3	3	63.3	2.1
3	4	65.9	2.3
3	5	67.8	3
4	1	59.8	4.3
4	2	63.4	2.8
4	3	66.4	2.2
4	4	69.3	2.2
4	5	72.3	2.4
5	1	62.0	5.6
5	2	65.9	4
5	3	69.4	2.9
5	4	72.9	2.3
5	5	77.4	3.4

Vulvar Discomfort – Labial Short Form Conversion Table			
SFVUL203	SFVUL204	T-Score	SE
1	1	47.1	8.0
1	2	61.3	2.1
1	3	64.4	2.8
1	4	66.9	3.8
2	1	60.2	2.3
2	2	63.8	1.9
2	3	66.9	2.0
2	4	69.5	2.6
3	1	62.3	2.6
3	2	66.2	1.9
3	3	69.0	1.8
3	4	71.7	2.0
4	1	63.0	3.0
4	2	67.6	2.3
4	3	70.8	1.8
4	4	73.8	2.0
5	1	63.2	3.2
5	2	68.2	2.7
5	3	72.1	2.2
5	4	77.7	3.4

Full Profile (Female) and Full Profile (Sexually Active Female) v2.0

Page 3 of 6

Vulvar Discomfort – Clitoral			
Short Form Conversion Table			
SFVUC203	SFVUC204	T-Score	SE
1	1	48.0	8.5
1	2	64.3	2.3
1	3	68.1	3.0
1	4	71.7	4.1
2	1	62.6	2.6
2	2	66.7	2.1
2	3	70.4	2.2
2	4	73.7	2.9
3	1	64.3	2.8
3	2	69.1	2.1
3	3	72.7	2.0
3	4	76.2	2.2
4	1	64.8	3.1
4	2	70.5	2.5
4	3	74.9	2.2
4	4	79.9	3.1

Orgasm Ability	
Short Form Conversion Table	
Raw Score	T-Score
1	20.8
2	30.2
3	39.6
4	49.0
5	58.4

Full Profile (Female) and Full Profile (Sexually Active Female) v2.0

Page 4 of 6

Orgasm Pleasure			
Short Form Conversion Table			
SFOGP201	SFOGP203	T-Score	SE
1	1	25.2	3.9
1	2	30.9	2.6
1	3	35.4	3.2
1	4	41.5	3.8
1	5	48.7	4.5
2	1	29.5	2.7
2	2	33.0	2.4
2	3	36.8	2.7
2	4	42.1	3.4
2	5	48.8	4.3
3	1	32.2	3.1
3	2	35.4	2.5
3	3	39.3	2.6
3	4	43.7	2.8
3	5	49.5	3.7
4	1	34.9	4.2
4	2	38.0	3.2
4	3	42.3	2.7
4	4	47.2	2.9
4	5	52.5	3.0
5	1	37.4	5.9
5	2	40.8	4.7
5	3	45.5	3.6
5	4	50.9	2.9
5	5	60.0	5.8

Full Profile (Female) and Full Profile (Sexually Active Female) v2.0

Page 5 of 6

Oral Discomfort			
Short Form Conversion Table			
SFODS201	SFODS202	T-Score	SE
1	1	44.8	7.2
1	2	56.3	3.2
1	3	59.1	3.7
1	4	61.9	4.7
2	1	54.7	3.6
2	2	59.0	2.7
2	3	61.8	2.9
2	4	64.7	3.6
3	1	57.1	3.8
3	2	61.1	2.7
3	3	64.0	2.7
3	4	67.3	3.1
4	1	58.3	4.3
4	2	62.8	3.2
4	3	66.2	2.9
4	4	71.9	4.3

Oral Dryness			
Short Form Conversion Table			
SFODR202	SFODR203	T-Score	SE
1	1	40.8	6.1
1	2	49.9	3.2
1	3	54.6	3.9
1	4	57.7	5.0
2	1	48.5	3.3
2	2	53.3	3.0
2	3	57.5	3.0
2	4	60.5	3.7
3	1	51.2	3.9
3	2	56.5	3.1
3	3	60.3	2.7
3	4	63.8	3.1
4	1	52.7	4.7
4	2	58.9	3.6
4	3	63.0	3.0
4	4	69.1	4.6

Full Profile (Female) and Full Profile (Sexually Active Female) v2.0

Page 6 of 6

Anal Discomfort Short Form Conversion Table	
Raw Score	T-Score
2	48.60
3	66.03
4	83.46
5	100.89
6	118.32
7	135.74
8	153.17
9	170.60
10	188.03

Note: The Anal Discomfort and Satisfaction with Sex Life short form conversion tables were revised in February 2022.

Satisfaction with Sex Life Short Form Conversion Table		
Raw Score	T-Score	SE*
4	30.7	4.3
5	35.6	2.3
6	37.6	2.0
7	39.1	1.9
8	40.5	1.8
9	41.8	1.9
10	43.3	1.9
11	44.7	2.0
12	46.2	2.0
13	47.8	2.0
14	49.4	2.0
15	51.1	2.0
16	52.8	2.0
17	54.6	2.1
18	56.7	2.3
19	59.5	2.8
20	65.1	5.0
*SE = Standard Error on T-score metric		

Full Profile (Male) Full and Profile (Sexually Active Male) v2.0

Page 1 of 5

Interest in Sexual Activity Short Form Conversion Table	
Raw Score	T-Score
2	21.9
3	27.4
4	32.9
5	38.4
6	43.9
7	49.4
8	54.8
9	60.3
10	65.8

Orgasm Ability Short Form Conversion Table	
Raw Score	T-Score
1	20.8
2	30.2
3	39.6
4	49.0
5	58.4

IIEF- Erectile Function Short Form Conversion Table		
Raw Score	T-Score	SE
3	28.2	4.0
4	32.6	2.1
5	34.6	1.8
6	36.0	1.8
7	37.1	1.7
8	38.2	1.7
9	39.3	1.7
10	40.4	1.7
11	41.5	1.8
12	42.8	1.8
13	44.3	1.9
14	46.5	2.3
15	56.1	6.8

Full Profile (Male) and Full Profile (Sexually Active Male) v2.0

Page 2 of 5

Orgasm Pleasure			
Short Form Conversion Table			
SFOGP201	SFOGP203	T-Score	SE
1	1	25.2	3.9
1	2	30.9	2.6
1	3	35.4	3.2
1	4	41.5	3.8
1	5	48.7	4.5
2	1	29.5	2.7
2	2	33.0	2.4
2	3	36.8	2.7
2	4	42.1	3.4
2	5	48.8	4.3
3	1	32.2	3.1
3	2	35.4	2.5
3	3	39.3	2.6
3	4	43.7	2.8
3	5	49.5	3.7
4	1	34.9	4.2
4	2	38.0	3.2
4	3	42.3	2.7
4	4	47.2	2.9
4	5	52.5	3.0
5	1	37.4	5.9
5	2	40.8	4.7
5	3	45.5	3.6
5	4	50.9	2.9
5	5	60.0	5.8

Full Profile (Male) and Full Profile (Sexually Active Male) v2.0

Page 3 of 5

Oral Discomfort			
Short Form Conversion Table			
SFODS201	SFODS202	T-Score	SE
1	1	44.8	7.2
1	2	56.3	3.2
1	3	59.1	3.7
1	4	61.9	4.7
2	1	54.7	3.6
2	2	59.0	2.7
2	3	61.8	2.9
2	4	64.7	3.6
3	1	57.1	3.8
3	2	61.1	2.7
3	3	64.0	2.7
3	4	67.3	3.1
4	1	58.3	4.3
4	2	62.8	3.2
4	3	66.2	2.9
4	4	71.9	4.3

Full Profile (Male) and Full Profile (Sexually Active Male) v2.0

Page 4 of 6

Oral Dryness Short Form Conversion Table			
SFODR202	SFODR203	T-Score	SE
1	1	40.8	6.1
1	2	49.9	3.2
1	3	54.6	3.9
1	4	57.7	5.0
2	1	48.5	3.3
2	2	53.3	3.0
2	3	57.5	3.0
2	4	60.5	3.7
3	1	51.2	3.9
3	2	56.5	3.1
3	3	60.3	2.7
3	4	63.8	3.1
4	1	52.7	4.7
4	2	58.9	3.6
4	3	63.0	3.0
4	4	69.1	4.6

Anal Discomfort Short Form Conversion Table	
Raw Score	T-Score
2	48.60
3	66.03
4	83.46
5	100.89
6	118.32
7	135.74
8	153.17
9	170.60
10	188.03

Note: The Anal Discomfort short form conversion table was revised in February 2022.

Full Profile (Male) and Full Profile (Sexually Active Male) v2.0

Page 5 of 5

Satisfaction with Sex Life Short Form Conversion Table		
Raw Score	T-Score	SE*
4	30.7	4.3
5	35.6	2.3
6	37.6	2.0
7	39.1	1.9
8	40.5	1.8
9	41.8	1.9
10	43.3	1.9
11	44.7	2.0
12	46.2	2.0
13	47.8	2.0
14	49.4	2.0
15	51.1	2.0
16	52.8	2.0
17	54.6	2.1
18	56.7	2.3
19	59.5	2.8
20	65.1	5.0
*SE = Standard Error on T-score metric		

Notes: The Satisfaction with Sex Life short form conversion table was revised in February 2022.

Appendix B—Scoring Service Instructions for the Sexual Function v2.0 Profiles

Selected PROMIS v2.0 Sexual Function Profiles can be scored using the [HealthMeasures Scoring Service](#).

Scoring with the HealthMeasures Scoring Service:

The [HealthMeasures Scoring Service](#) is a free, web-based application that scores a de-identified .csv file of raw participant responses and returns (by email) a file with calculated T-scores and standard errors.

Instructions:

1. Download the Input Template from the HealthMeasures Scoring Service home page.
2. Add your data (all respondents' individual answers to questions) for one PROMIS measure to the [Input Template](#) (multiple timepoints are okay).
3. Upload your input data (saved as a .csv file) to the HealthMeasures Scoring Service. If this is your first time, register as a new user.
4. Access your email to receive an output spreadsheet with calculated scores.

Further instructions for using the Scoring Service can be found in this video tutorial:

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

Scoring Profiles for Sexually Active Respondents:

Excluding the “Non-Sexually Active” measures, the v2.0 Sexual Function Profiles 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 in [“Search and View Measures”](#) at [HealthMeasures.net](#).

Depending on the exact v2.0 Sexual Function Profile being scored, you can use one of two approaches in the HealthMeasures Scoring Service:

Option #1: Score a standalone Profile

Option #2: Score the “Sexually Active” section of a composite Profile

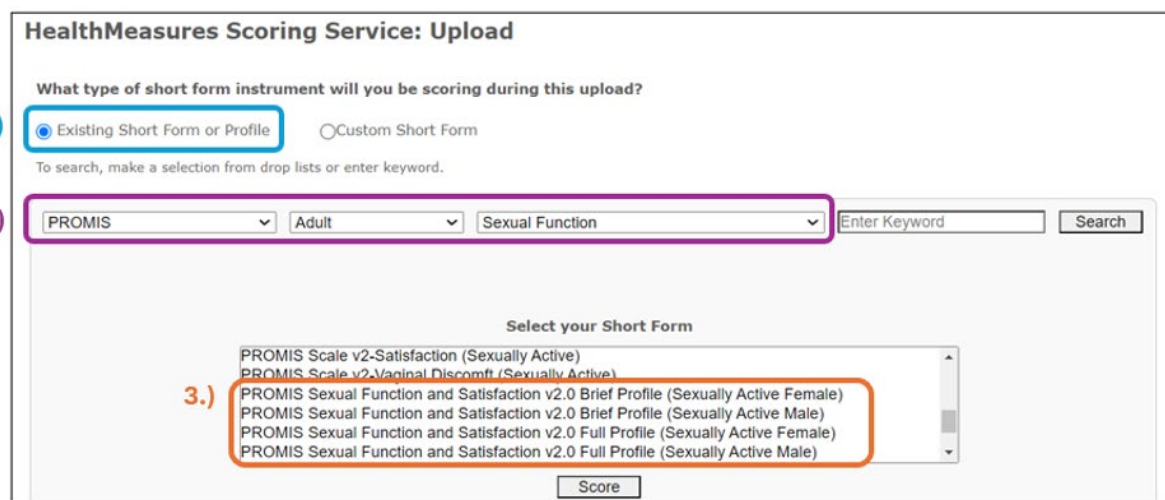
Scoring Profiles for Sexually Active Respondents

Option #1: Score a Standalone Profile:

The following v2.0 Profile measures are included in the Scoring Service as independent, standalone forms:

- PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female)
 - PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Male)
 - PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female)
 - PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Male)
1. First, after logging in to the [HealthMeasures Scoring Service](#), select “Existing Short Form or Profile” (the first question on the screen as indicated **in blue** in Figure 1 below).
 2. Second, in the next section of the screen (as indicated **in purple** in Figure 1 below) locate the appropriate v2.0 Sexual Function Profile by searching with keywords or using the drop-down menus to select the relevant Measurement System (“PROMIS”), Respondent Type (“Adult”), and Domain (“Sexual Function”).
 3. Third, under “Select your Short Form” (indicated **in orange** in Figure 1 below) select the desired profile measure.

Figure 1: HealthMeasures Scoring Service upload page



HealthMeasures Scoring Service: Upload

What type of short form instrument will you be scoring during this upload?

1.) ☒ Existing Short Form or Profile ☐ Custom Short Form

To search, make a selection from drop lists or enter keyword.

2.) PROMIS Adult Sexual Function

Select your Short Form

3.) PROMIS Scale v2-Satisfaction (Sexually Active)
PROMIS Scale v2-Vaginal Discomfort (Sexually Active)
PROMIS Sexual Function and Satisfaction v2.0 Brief Profile (Sexually Active Female)
PROMIS Sexual Function and Satisfaction v2.0 Brief Profile (Sexually Active Male)
PROMIS Sexual Function and Satisfaction v2.0 Full Profile (Sexually Active Female)
PROMIS Sexual Function and Satisfaction v2.0 Full Profile (Sexually Active Male)

Option #2: Score the “Sexually Active” Section of a Composite Profile:

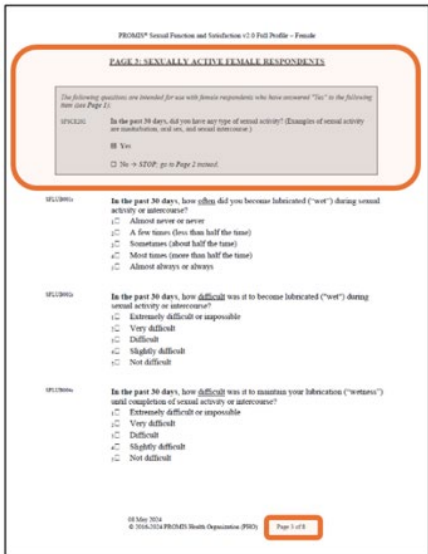
The following v2.0 Profile measures are not included in the Scoring Service as independent forms, but can still be scored using a workaround with the “Existing Short Form or Profile” function:

- PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Female)
- PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Male)
- PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Female)
- PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Male)

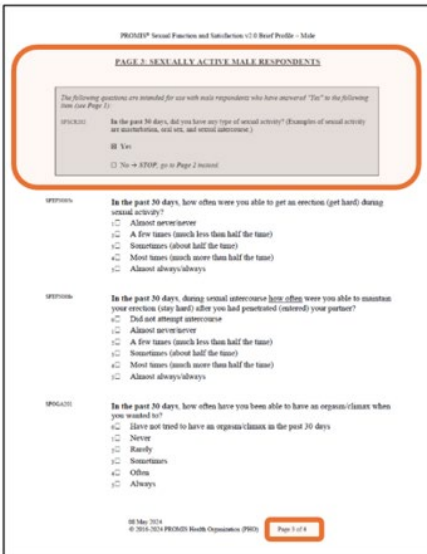
These Profiles are composite paper-and-pencil forms that combine the standalone “Sexually Active” and “Non-Sexually Active” measures. As such, the “Sexually Active” section (examples pictured in orange in Figure 2 below) can be scored using the corresponding measure title listed under “Option 1” (see above).

Figure 2: Cover pages of the “Sexually Active—Female” (#1 pictured below) and “Sexually Active—Male” (#2 pictured below) portions of two paper-and-pencil, composite v2.0 SexFS Profiles

1.)



2.)



For example, a researcher intending to score the **PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Female)** measure would upload their Input Template and score their measure as the **PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female)** measure instead. The resulting output files will contain scores for those respondents who indicated participating in sexual activity in the past 30 days (Item SFSCR202).

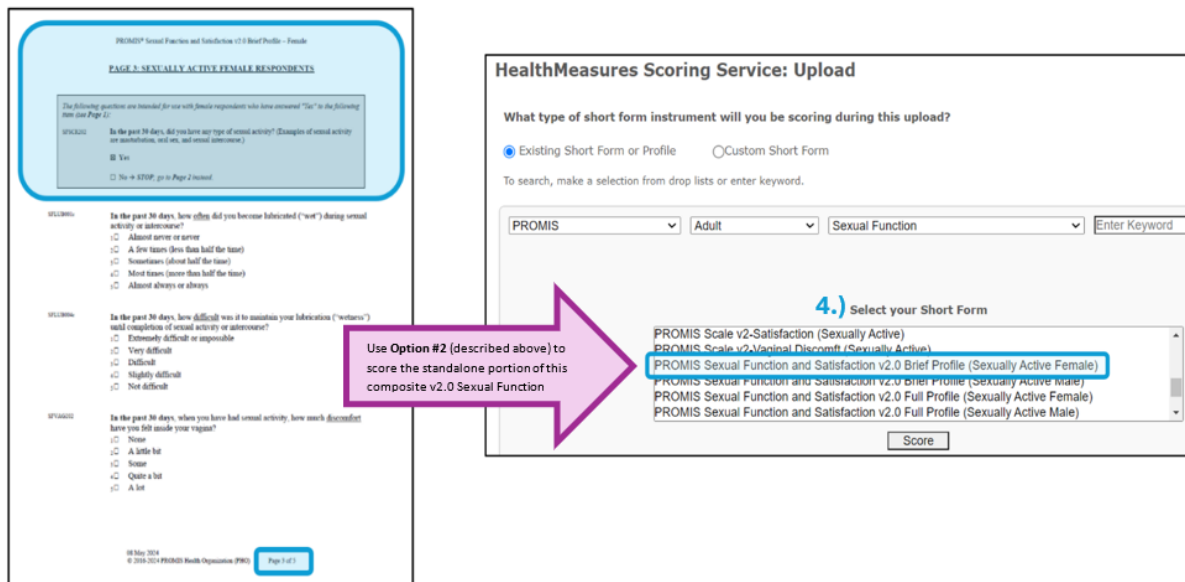
1. To use this approach, first reference the following table to identify your composite profile instrument (left column of Table 1 below) and its corresponding instrument that is included in the HealthMeasures Scoring Service (right column of Table 1 below).

Table 1: A crosswalk of available PROMIS v2.0 SexFS Profiles and the corresponding measures that can be used in the Scoring Service

Composite Profile Instrument to be Scored	Corresponding Instrument in Scoring Service
PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Female)	PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female)
PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Male)	PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Male)
PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Female)	PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Female)
PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Male)	PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Sexually Active Male)

2. Second, log in to the [HealthMeasures Scoring Service](#) and select “Existing Short Form or Profile” (the first question on the screen in Figure 3 below).
3. Third, in the next section of the screen, search with keywords or using the drop-down menus to select the relevant Measurement System (“PROMIS”), Respondent Type (“Adult”), and Domain (“Sexual Function”).
4. Finally, under “Select your Short Form” (indicated in blue in Figure 3 below) select the Corresponding Instrument in Scoring Service you identified in step 1.

Figure 3: Scoring a paper-and-pencil v2.0 SexFS Profile using the HealthMeasures Scoring Service



HealthMeasures Scoring Service: Upload

What type of short form instrument will you be scoring during this upload?

☒ Existing Short Form or Profile ☐ Custom Short Form

To search, make a selection from drop lists or enter keyword.

PROMIS Adult Sexual Function Enter Keyword

4.) Select your Short Form

PROMIS Scale v2-Satisfaction (Sexually Active)
PROMIS Scale v2-Vaginal Discomfort (Sexually Active)
PROMIS Sexual Function and Satisfaction v2.0 Brief Profile (Sexually Active Female)
PROMIS Sexual Function and Satisfaction v2.0 Brief Profile (Sexually Active Male)
PROMIS Sexual Function and Satisfaction v2.0 Full Profile (Sexually Active Female)
PROMIS Sexual Function and Satisfaction v2.0 Full Profile (Sexually Active Male)

Score

Use Option #2 (described above) to score the standalone portion of this composite v2.0 Sexual Function

In the case of the “Non-Sexually Active” section of these composite Profile measures, see below for more information on why these items cannot be scored using the HealthMeasures Scoring Service.

Scoring Profiles for Non-Sexually Active Respondents:

The following v2.0 Profile measures cannot be scored using the HealthMeasures Scoring Service:

- PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Non-Sexually Active Female)
- PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Non-Sexually Active Male)

Similarly, the “Non-Sexually Active” sections of the following composite v2.0 Profiles cannot be scored using the HealthMeasures Scoring Service:

- PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Female)
- PROMIS Brief Profile v2.0 – Sexual Function and Satisfaction (Male)
- PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Female)
- PROMIS Full Profile v2.0 – Sexual Function and Satisfaction (Male)

The measures/sections for Non-Sexually Active respondents are comprised of a combination of uncalibrated and screening items. Therefore, these instruments do not produce summary scores and are intended only to provide additional descriptive information.

Appendix C—Sexual Function and Satisfaction v1.0 Measures Development and Scoring Instructions

SCORING

The score metric for PROMIS instruments is Item Response Theory (IRT), a family of statistical models that link individual questions to a presumed underlying trait or concept represented by all items in the item bank. PROMIS instruments are scored using item-level calibrations. This means that the most accurate way to score a PROMIS instrument is to utilize scoring tools (e.g., Assessment Center API) that look at responses to each item for each participant. Data collected in platforms using the Assessment Center API (e.g., REDCap) will automatically score in this way. We refer to this as “response pattern scoring.” Response pattern scoring can be used when data was collected on paper or in another software package. Because response pattern scoring is more accurate than the use of raw score/scale score look up tables, it is preferred. However, if you aren’t able to use response pattern scoring, you can use the instructions below which rely on raw score/scale score look-up tables.

With the exception of the Orgasm subdomain, all subdomain scores are expressed as *T* scores (mean = 50, standard deviation = 10). For v1.0, a *T* score of 50 corresponds to the mean response among the cancer survivors used for item testing (total *N* = 819).

Multiple Domains

In the case of the PROMIS Sexual Function and Satisfaction Brief Profiles, the instrument is made up of six individual short forms that are scored individually: Interest in Sexual Activity, Vaginal Discomfort (women only), Lubrication (women only), Erectile Function (men only), Orgasm, and Global Satisfaction with Sex Life.

Please note that the Lubrication items are intended to assess the lubrication of the vagina without the assistance of personal lubricant products. As a result, it is recommended that respondents be instructed to select item responses in accordance with their natural vaginal lubrication only and to disregard the additive effects of personal lubricants.

Not Applicable Responses

Each question has multiple response options ranging in value from one to four or five. In many cases, there is also a response option that allows a respondent to report a “not applicable” response. For example, for Erectile Function, a respondent can answer “have not tried to get an erection in the past 30 days.” These “not applicable” responses cannot be used to calculate a score. They can only be used as individual items to describe respondents.

Create a Summed Raw Score

Calculate the raw summed score for each domain in the profile. This raw summed domain score can only be created if ALL items from that domain were answered *and* NO “not applicable” responses were given. For example, if a respondent only answered one of the two Global Satisfaction with Sex Life items, a valid Global Satisfaction with Sex Life score cannot be produced. If a different respondent answered both of these items, but endorsed “Have not had sexual activity in the past 30 days” for one or both items, a valid Global Satisfaction with Sex Life score cannot be produced.

After confirming all items in a given domain were answered without endorsing a “not applicable” response (identified by a score of X), add up the response scores to all items in that domain. This is the raw summed score for that domain. For example, for Global Satisfaction with Sex Life, the raw summed score can range from 2 (endorsed “Not at all” to both items) to 10 (endorsed “Very” or “Very much” to both items).

Note that for the single Orgasm item, no summed score is produced. This item is not scored using Item Response Theory. Instead, raw responses can be used in analyses.

Use the Raw Score/T-Score Look-up Tables

Locate the applicable score conversion table in Appendix C and use this table to translate the domain raw summed 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. The standardized T-score is reported as the final score for each participant for each domain. For the Global Satisfaction with Sex Life domain, a raw summed score of 6 converts to a T-score of 48.15 with a standard error (SE) of 3.52 (see scoring table in Appendix C).

Available Instruments

PROMIS has 11 v1.0 Sexual Function and Satisfaction instruments. Five of these instruments are calibrated item banks (e.g., PROMIS Bank v1.0 – Global Satisfaction with Sex Life). This means that if one or more items from within that instrument are administered, a respondent’s score will be calculated using item response theory statistics. If these instruments are administered outside of a platform that automatically calculates scores, use the raw score/scale score look-up tables to determine scores (see tables in Appendix C).

Instrument Name	# of items	Calibrated or Uncalibrated
Global Satisfaction with Sex Life	7	Calibrated
Interest in Sexual Activity	4	Calibrated
Lubrication	8	Calibrated
Vaginal Discomfort	10	Calibrated
Erectile Function	8	Calibrated
Orgasm	3	Uncalibrated
Interfering Factors	10	Uncalibrated
Therapeutic Aids	9	Uncalibrated
Sexual Activities	12	Uncalibrated
Anal Discomfort	5	Uncalibrated
Sexual Function Screener Items	3	Uncalibrated

Table 3: PROMIS Sexual Function and Satisfaction Instruments

Six of the instruments do not have calibrated items (e.g., PROMIS Pool v1.0 – Sexual Activities). This means that items within those instruments are not combined in any way to create a score. Each item in these instruments measures a very specific construct corresponding only to that item (e.g., how much radiation burns have affected one’s satisfaction with their sex life). For any given item in these uncalibrated instruments, the researcher can use the raw item responses directly for analyses. The available instruments are listed in Table 3.

The following experts generously provided helpful input to the PROMIS Sexual Function and Satisfaction domain working group:

	<u>Sexual Function and Satisfaction Domain Group (including NIH)</u>	<u>Duke Clinical Research Institute CCGE staff</u>	<u>Duke University School of Nursing</u>
Erick Janssen, PhD, MA Ray Rosen, PhD Stacy Tessler Lindau, MD, MAPP Jeanne Carter, PhD Michael Perelman, PhD Leslie R. Schover, PhD John P. Mulhall, MD David M. Latini, PhD Barbara L. Andersen, PhD Sara I. McClelland, PhD	Amy Abernethy, MD Joan Broderick, PhD Deborah Bruner, PhD, RN Jill Cyranowski, PhD Susan Czajkowski, PhD Elizabeth Hahn, MA Diana Jeffery, PhD Francis Keefe, PhD Jin-Shei Lai, PhD Richard Luecht, PhD Susan Magasi, PhD Laura Porter, PhD Jennifer Reese, PhD Bryce Reeve, PhD Rebecca Shelby, PhD Ashley Wilder, PhD, MPH	Carrie Dombeck, MA Maria Fawzy Alice Fortune-Greeley Angel Moore, MSPH Damon Seils Janice Tzeng	Lucy Andrzejewski Teresa Baker Henry Beresford Monie Clayton Teresa Ebel Linda Folsom Mindy Kash Patrick Lane Diane Langley Justin Levens Denise Snyder, MS, RD, CSO, LDN Valeda Stull Megan Williams, MSW, MSPH

CONTACT US

For more information about PROMIS, accessing the PROMIS Sexual Function instruments or administering them, contact us at help@healthmeasures.net.

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Appendix D—Scoring Tables for Sexual Function and Satisfaction v1.0 Measures

V1.0 Brief Profile Look-up Tables

Global Satisfaction with Sex Life Score Conversion Table		
Raw Score	T Score	SE*
2	30.67	4.86
3	36.8	3.84
4	40.94	3.59
5	44.76	3.6
6	48.15	3.52
7	51.5	3.57
8	55.11	3.54
9	58.98	3.76
10	65.6	5.23

*SE=Standard Error on T-score metric

Interest in Sexual Activity Score Conversion Table		
Raw Score	T Score	SE*
2	33.42	4.72
3	40.01	2.82
4	43.64	2.69
5	47.46	2.82
6	51.16	2.8
7	54.86	2.85
8	58.96	2.87
9	63.28	3.06
10	69.97	4.37

*SE=Standard Error on T-score metric

Lubrication Score Conversion Table		
Raw Score	T Score	SE*
2	37.05	5.45
3	43.58	3.26
4	46.25	3.07
5	48.5	2.99
6	50.64	2.96
7	52.84	2.98
8	55.3	3.06
9	58.55	3.38
10	64.82	5.24

*SE=Standard Error on T-score metric

Vaginal Discomfort Score Conversion Table		
Raw Score	T Score	SE*
3	34.34	5.3
4	41.13	3.56
5	45.4	2.83
6	48.09	2.69
7	50.51	2.61
8	52.62	2.61
9	54.55	2.63
10	56.5	2.69
11	58.56	2.78
12	61.03	2.99
13	64.32	3.42
14	69.81	4.96

*SE=Standard Error on T-score metric

Erectile Function Score Conversion Table		
Raw Score	T Score	SE*
3	36.84	5.41
4	42.81	3.22
5	44.88	3.05
6	46.76	2.82
7	48.44	2.65
8	49.99	2.58
9	51.51	2.58
10	53.08	2.6
11	54.78	2.64
12	56.64	2.66
13	58.69	2.72
14	61.32	2.96
15	67.25	4.67

*SE=Standard Error on T-score metric

Sexual Function and Satisfaction v1.0 Bank Look-up Tables

Vaginal Discomfort Score Conversion Table		
Raw Score	T Score	SE*
10	33.20	5.05
11	38.71	3.26
12	41.09	2.98
13	42.68	2.67
14	44.01	2.43
15	45.13	2.19
16	46.11	2.01
17	46.96	1.91
18	47.74	1.86
19	48.47	1.83
20	49.16	1.80
21	49.83	1.78
22	50.48	1.77
23	51.12	1.77
24	51.74	1.77
25	52.35	1.77
26	52.96	1.77
27	53.56	1.79
28	54.17	1.79
29	54.77	1.80
30	55.38	1.81
31	56.00	1.84
32	56.63	1.86
33	57.28	1.89
34	57.95	1.93
35	58.66	2.00
36	59.40	2.08
37	60.20	2.17
38	61.04	2.28
39	61.93	2.41
40	62.87	2.55
41	63.88	2.70
42	64.96	2.88
43	66.14	3.09
44	67.42	3.29
45	68.89	3.57
46	70.34	3.74
47	72.36	4.09
48	74.03	4.31
49	77.08	4.90

*SE= Standard Error on T-score

Lubrication Score Conversion Table		
Raw Score	T Score	SE*
8	30.99	4.74
9	35.47	3.16
10	37.54	2.72
11	38.97	2.48
12	40.14	2.27
13	41.16	2.10
14	42.06	1.98
15	42.89	1.90
16	43.66	1.85
17	44.40	1.80
18	45.09	1.78
19	45.78	1.77
20	46.45	1.77
21	47.12	1.76
22	47.78	1.77
23	48.46	1.79
24	49.14	1.80
25	49.84	1.81
26	50.54	1.82
27	51.26	1.84
28	51.99	1.86
29	52.74	1.87
30	53.52	1.88
31	54.32	1.90
32	55.16	1.92
33	56.05	1.96
34	57.01	2.01
35	58.06	2.10
36	59.26	2.25
37	60.67	2.50
38	62.38	2.82
39	64.78	3.33
40	69.26	4.85

*SE= Standard Error on T-score

Erectile Function Score Conversion Table		
Raw Score	T Score	SE*
8	30.72	5.42
9	33.94	5.38
10	32.59	5.62
11	34.48	5.35
12	34.19	5.18
13	38.05	3.83
14	39.75	3.72
15	40.68	3.90
16	42.28	3.16
17	43.57	2.86
18	44.65	2.69
19	45.66	2.55
20	46.59	2.45
21	47.46	2.38
22	48.30	2.33
23	49.11	2.30
24	49.89	2.29
25	50.68	2.29
26	51.46	2.30
27	52.26	2.32
28	53.08	2.37
29	53.93	2.42
30	54.83	2.50
31	55.79	2.62
32	56.80	2.71
33	57.94	2.92
34	59.27	3.29
35	61.08	4.00
36	62.12	3.75
37	64.00	3.67
38	68.47	4.76

*SE= Standard Error on T-score

Global Satisfaction with Sex Life Score Conversion Table		
Raw Score	T Score	SE*
7	29.59	4.56
8	34.45	3.10
9	37.14	2.73
10	39.16	2.54
11	40.77	2.42
12	42.15	2.33
13	43.40	2.26
14	44.55	2.21
15	45.63	2.18
16	46.66	2.16
17	47.66	2.16
18	48.63	2.16
19	49.60	2.16
20	50.56	2.17
21	51.53	2.18
22	52.51	2.18
23	53.49	2.18
24	54.49	2.18
25	55.49	2.17
26	56.51	2.17
27	57.54	2.18
28	58.61	2.20
29	59.73	2.23
30	60.93	2.31
31	62.25	2.43
32	63.74	2.60
33	65.54	2.90
34	67.85	3.33
35	72.01	4.63

*SE= Standard Error on T-score

Interest in Sexual Activity Score Conversion Table		
Raw Score	T Score	SE*
4	32.03	4.78
5	37.01	3.41
6	40.15	2.94
7	42.55	2.73
8	44.67	2.74
9	46.79	2.80
10	48.87	2.81
11	50.86	2.78
12	52.85	2.79
13	55.15	2.84
14	57.58	2.81
15	59.78	2.83
16	62.19	2.94
17	64.98	3.07
18	68.43	3.36
19	71.76	3.92
20	76.17	4.87

*SE= Standard Error on T-score