A brief guide to differences between the PROMIS® Psychosocial Illness Impact-Positive instruments:

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ABOUT PSYCHOSOCIAL ILLNESS IMPACT-POSITIVE
The PROMIS Psychosocial Illness Impact-Positive, also known as “Positive Illness Impact”, instruments assess positive psychosocial (emotional and social) outcomes of illness, previously conceptualized in various ways including post-traumatic growth, benefit-finding, and meaning making. Positive Illness Impact refers to positive psychosocial outcomes of illness that can occur as a result of confrontation with one’s mortality, such as greater life appreciation, interpersonal relationships and personal resources. Positive Illness-Impact items do NOT seek to capture the positive impact of illness on physical or functional/role domains of functioning. The Psychosocial Illness Impact-Positive CAT is universal rather than disease-specific.
The item bank instructs participants to think about how their illness has affected them. Two items are presented on each screen. Participants are asked to respond to each item. The item bank uses the time frames “before your illness” and “since your illness” when assessing positive illness impact.

Psychosocial Illness Impact-Positive instruments are available for adults (ages 18+).

INTRODUCTION TO ASSESSMENT OPTIONS
There are two administration options for assessing Psychosocial Illness Impact-Positive: short forms and a computer adaptive test (CAT). When administering a short form, instruct participants to answer all of the items (i.e., questions or statements) presented. With CAT, participant responses guide the system’s choice of subsequent items from the full item bank (39 items in total). Although items differ across respondents taking CAT, scores are comparable across participants.

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

CAT: A minimum number of items (4 for adult CATs) must be answered in order to receive a score for the Psychosocial Illness Impact – Positive CAT. The response to the first item will guide the system’s choice of the next item for the participant. The participant’s response to the second item will dictate the selection of the following question, and so on. As additional items are administered, the potential for error is reduced and confidence in the respondent’s score increases. CAT will continue until either the standard error drops below a specified level (on the T-score metric 3.0 for adult CATs), or the participant has answered the maximum number of questions (12), whichever occurs first.
CAT versus Short Form: Whether one uses a short form or CAT, the score metric is Item Response Theory (IRT), a family of statistical models that link individual questions to a presumed underlying trait or concept of Psychosocial Illness Impact-Positive represented by all items in the item bank. When choosing between CAT and a short form, it is useful to consider the demands of computer-based assessment, and the psychological, physical, and cognitive burden placed on respondents as a result of the number of questions asked.

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

**SHORT FORM DIFFERENCES**

There are 2 adult short forms. Items were selected based on content and psychometric characteristics. Short form items are nested or overlap (e.g., an 8 item short form is the 4-item short form plus two additional items).

**Selecting a Short Form**

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

**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](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 Psychosocial Illness Impact-Positive, a T-score of 60 is one SD better than average. By comparison, a Psychosocial Illness Impact-Positive T-score of 40 is one SD worse than average.
STATISTICAL CHARACTERISTICS
There are four key features of the score for Psychosocial Illness Impact-Positive:

- **Reliability**: The degree to which a measure is free of error. It can be estimated by the internal consistency of the responses to the measure, or by correlating total scores on the measure from two time points when there has been no true change in what is being measured (for z-scores, reliability = 1 – SE²).
- **Precision**: The consistency of the estimated score (reciprocal of error variance).
- **Information**: The precision of an item or multiple items at different levels of the underlying continuum (for z-scores, information = 1/SE²).
- **Standard Error (SE)**: The possible range of the actual final score based upon the scaled T-score. For example, with a T-score of 52 and a SE of 2, the 95% confidence interval around the actual final score ranges from 48.1 to 55.9 (T-score \( \pm (1.96 \times SE) = 52 \pm 3.9 = 48.1 \) to 55.9).

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

In Figure 2 (4a and 8a short forms), the two dotted horizontal lines each represent a degree of internal consistency reliability (i.e., .90 or .95) typically regarded as sufficient for an accurate individual score. The shaded blue region marks the range of the scale where measurement precision is comparable to the reliability of .90. Figure 2 tells us where on the scale the form is most informative based upon the T-score. The 8-item form is more informative than the 4-item form.

Figure 3 is a sample of the statistical information available for the Psychosocial Illness Impact-Positive CAT.

More information is available at HealthMeasures.net.

![Figure 2](image2)

![Figure 3](image3)
PREVIEW OF SAMPLE ITEM

Figure 4 is an excerpt from the paper version of the adult eight-item short form. This is the paper version format used for all Psychosocial Illness Impact-Positive instruments. When administered digitally, it is recommended that both the “before your illness” and the “since your illness” items are on the same screen. It is important to note, CAT is not available for paper administration.

FREQUENTLY ASKED QUESTIONS (FAQs)

Q: I am interested in learning more. Where can I do that?
Review the HealthMeasures website at [www.healthmeasures.net](http://www.healthmeasures.net).

Q: Are these instruments available in other languages?

Q: Can I make my own short form?
Yes, custom short forms can be made by selecting any items from an item bank. This can be scored using the Scoring Service ([https://www.assessmentcenter.net/ac_scoringservice](https://www.assessmentcenter.net/ac_scoringservice)).