

OA-KNEE ITEM POOLS

SCORING MANUAL

A brief guide to scoring the PROMIS® OA-Knee Item Pool instruments:

ADULT
PROMIS Item Pool v1.0 – OA-Knee – Anger
PROMIS Item Pool v1.0 – OA-Knee – Anxiety
PROMIS Item Pool v1.0 – OA-Knee – Independence
PROMIS Item Pool v1.0 – OA-Knee – Life Satisfaction
PROMIS Item Pool v1.0 – OA-Knee – Pain Intensity
PROMIS Item Pool v1.0 – OA-Knee – Symptoms

OA=osteoarthritis

ABOUT OA-KNEE ITEM POOLS

The six PROMIS OA (osteoarthritis)-Knee Item Pools assess self-reported Anger, Anxiety, Independence, Life Satisfaction, Pain Intensity, and Symptoms in the context of osteoarthritis of the knee. This collection of Pools was derived from a project identifying domains and items relevant to osteoarthritis of the knee (Schifferdecker et al., 2018; Yount et al., 2021). These domains and PROMIS items were deemed relevant by a sample of patients with knee osteoarthritis. They are intended to supplement other items or short forms from the same domains when assessing individuals with knee osteoarthritis. They are intended to provide additional descriptive information as they do not produce summary scores.

- The **PROMIS OA-Knee–Anger Pool** assesses the degree to which the respondent is frustrated by potential limitations caused by their knee. The Anger Pool includes one item that assesses anger in the past 7 days.
- The **PROMIS OA-Knee–Anxiety Pool** assesses the degree to which the respondent worries about various outcomes related to their knee (e.g., “I worried about falling”). The Anxiety Pool includes 3 items, all of which assess anxiety in the past 7 days.
- The **PROMIS OA-Knee–Independence Pool** assesses the degree to which the respondent feels their knee osteoarthritis interferes with their ability to be independent (i.e., not have to rely on others). The Independence Pool includes 3 items; two items assess independence in the past 7 days and one item does not have a timeframe.
- The **PROMIS OA-Knee–Life Satisfaction Pool** assesses the degree to which the respondent is able to enjoy their life. The Life Satisfaction Pool includes one item that assesses life satisfaction in the past 7 days.
- The **PROMIS OA-Knee–Pain Intensity Pool** assesses the degree of knee pain the respondent experiences when their leg is manipulated in certain ways. The Pain Intensity Pool includes 3 items, all of which assess pain intensity in the past 7 days.
- The **PROMIS OA-Knee–Symptoms Pool** assesses the degree to which the respondent experiences two symptoms related to knee osteoarthritis – stiffness and swelling. The Symptoms Pool includes 2 items that assess these symptoms in the past 7 days.

The PROMIS items included in these OA-Knee Item Pools are not disease-specific but many do reference the knee. These Pools were developed for use with adults with knee osteoarthritis (ages 18+).

INTRODUCTION TO ASSESSMENT OPTIONS

The PROMIS OA-Knee Item Pools are available for paper-and-pencil administration, via a printable PDF at HealthMeasures.net. You can select which PROMIS OA-Knee items from pools would be helpful to include in your project. Users are not required to administer all items within an item pool, but instead encouraged to select content that would be useful.

COMPARING SCORES ACROSS VERSIONS

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

SCORING THE INSTRUMENT

The six PROMIS OA-Knee Item Pools are not calibrated. They do not produce summary scores. Use the raw response option score for each Pool item.

Some PROMIS OA-Knee pools assess the same domain as other PROMIS measures (i.e., Anger, Anxiety, Life Satisfaction, Pain Intensity). For these domains, use a PROMIS measure that produces a PROMIS T-score and consider supplementing it with the OA-Knee-specific Item Pool when working with individuals with knee osteoarthritis.

PREVIEW OF SAMPLE ITEM

Figure 1 is an excerpt from the paper version of the OA-Knee – Symptoms Item Pool. Please note that all six OA-Knee Item Pools are combined into a single paper-and-pencil PDF.

<u>Symptoms Item Pool</u>						
In the past 7 days		Not at all	A little bit	Somewhat	Quite a bit	Very much
KNSYMP01	Did you feel stiffness in your knee(s) when standing up after a period of rest?	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5
In the past 7 days						
		Never	Rarely	Sometimes	Often	Always
KNSYMP02	Did you have swelling in or around your knee?	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5

Figure 1

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: 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.