

# **Patient-Reported Outcome (PRO) Data Dictionary User Guide**

*Last Updated August 1, 2023*

**Centers for Medicare & Medicaid Services (CMS)**

**Comprehensive Care for Joint Replacement (CJR) Model**

**Reporting of Patient-Reported Outcome (PRO) and Limited Risk Variable Data**

## **File Content and Descriptions**

The Patient-Reported Outcome (PRO) Data Dictionary is an Excel document that provides a comprehensive list of data elements to be submitted by hospitals participating in the reporting of PRO and risk variable data component of the Center for Medicare & Medicaid Innovation (CMMI) Comprehensive Care for Joint Replacement (CJR) model. The Data Dictionary is a complementary resource to accompany the CJR PRO Data Collection Template.

The Data Dictionary provides guidance on the data collection process, hyperlinks to PRO survey instruments, and data specifications (variable names) that can be cross-walked to the template. There are eleven Excel worksheets in the Data Dictionary:

- History of Updates
- Collection Process
- Customization Elements
- Pre-Op IDs & Risk Variables
- Post-Op IDs
- Hip dysfunction and Osteoarthritis Outcome Score for Joint Replacement (HOOS, JR)
- Hip dysfunction and Osteoarthritis Outcome Score (HOOS) Subscales
- Knee injury and Osteoarthritis Outcome Score for Joint Replacement (KOOS, JR)
- Knee injury and Osteoarthritis Outcome Score (KOOS) Subscales
- Veterans Rand 12-Item Health Survey (VR-12)
- Patient-Reported Outcomes Measurement Information Systems (PROMIS)-Global

### **History of Updates Worksheet**

This worksheet lists the types of updates made to the various versions of the Data Dictionary and PRO Data Collection Template.

### **Collection Process Worksheet**

This worksheet orients hospitals to the Total Hip Arthroplasty (THA) or Total Knee Arthroplasty (TKA) pre- or post-operative data specifications worksheets for defining successful submission. In this worksheet, hospitals can find webpage links to PRO survey instruments.

### **Customization Elements Worksheet**

This worksheet defines the variable names of the first four columns in the Data Entry worksheet of the PRO Data Collection Template. The first four columns in the Data Entry worksheet are called *Customization Elements* and they are: P\_TYPE (Procedure Type), TODC (Time of Data Collection), PS\_PROM (Procedure-Specific Patient-Reported Outcome Measure [PROM]), and G\_PROM (Generic PROM). These four data elements together define a *Validation Scenario* in

the macro-enabled data entry worksheet of the PRO Data Collection Template, which helps users by graying out non-applicable data fields based on whether data are relevant to the pre- or post-operative period and are for THA or TKA procedures.

### **Pre-Op IDs & Risk Variables Worksheet**

This worksheet provides the data elements to be collected during the THA or TKA pre-operative period.

### **Post-Op IDs Worksheet**

This worksheet provides the data elements to be collected during the THA or TKA post-operative period.

### **HOOS Jr and HOOS Subscales Worksheets**

These two worksheets provide THA procedure-specific PRO questionnaire and data specifications that can be cross-walked to the template.

### **KOOS Jr and KOOS Subscales Worksheets**

These two worksheets provide TKA procedure-specific PRO questionnaire and data specifications that can be cross-walked to the template.

### **VR-12 Worksheet**

This worksheet provides the VR-12 (generic) PRO questionnaire and data specifications that can be cross-walked to the template.

### **PROMIS-Global Worksheet**

This worksheet provides the PROMIS-Global (generic) PRO questionnaire and data specifications that can be cross-walked to the template. Please note that two questions on the PROMIS-Global PRO questionnaire changed response coding from version 1.1 to version 1.2 (PROMIS\_GLOBAL\_Q8, “Emotional problems in the past 7 days” and PROMIS\_GLOBAL\_Q9, “Average fatigue in the past 7 days”). The Data Dictionary and the template identify the different response coding for these questions depending on the version being used. Hospitals collecting data with the PROMIS-Global v. 1.1 should enter responses to these questions per the coding instructions provided for version 1.1; likewise, hospitals collecting data with the PROMIS-Global v. 1.2 should enter responses per coding instructions for this version.

## Contacts and Additional Resources

For more information about the CJR model:

- Visit the Centers for Medicare & Medicaid Services (CMS) Innovation Center website at: <https://innovation.cms.gov/innovation-models/cjr>; or
- Direct your inquiries to the CMS CJR Model Team at: [CJRSupport@cms.hhs.gov](mailto:CJRSupport@cms.hhs.gov)

For the CJR model final regulation, please visit the Federal Register website at:

<https://www.federalregister.gov/>.

For PRO and risk variable data collection resources:

- [CJR model site](#) for the data collection template
- [CMMI Connect](#) -> Files -> CJR Connect -> CJR PRO Data Collection folder for all other PRO resources