

Patient-Reported Outcome (PRO) Data Collection Template User Guide

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**Centers for Medicare & Medicaid Services (CMS)
Comprehensive Care for Joint Replacement (CJR) Model
Reporting of Patient-Reported Outcome (PRO) and Limited Risk Variable Data**

September 1, 2022

File Content and Descriptions

Hospitals participating in the Center for Medicare & Medicaid Innovation (CMMI) Comprehensive Care for Joint Replacement (CJR) model must use the Patient-Reported Outcome (PRO) Data Collection Template to submit the required PRO and risk variable data. The template is a customizable Excel document; depending on selections from the *Customization Elements* for each procedure, the template will shade gray and disable data elements that do not apply and allow all other data to be entered. The variable names in this template are defined in the accompanying PY 7 CJR PRO Data Dictionary. The Data Dictionary will also provide detailed data specifications for the variables in the template.

In Performance Years (PYs) 3–8, hospitals must use the PRO Data Collection Template unless otherwise instructed by the Centers for Medicare & Medicaid Services (CMS). The current data collection template, titled *PY 7 CJR PRO Data Collection Template*, is available on the CJR model site at: <https://innovation.cms.gov/innovation-models/cjr>.

Data Entry Worksheet

The CJR PRO Data Collection Template includes macros for data element validation and customization. When the file is opened, choose “Enable Content” to enable macros if prompted with a security warning. Macros must be enabled for correct template functionality.

There is one worksheet in the template, the Data Entry worksheet. This worksheet can be customized to show the data hospitals are required to collect and submit for eligible Total Hip Arthroplasty or Total Knee Arthroplasty (THA or TKA) procedures. The first four columns (A through D) in this worksheet are called *Customization Elements* (highlighted in blue in the Data Entry worksheet). These columns define the type of procedure, whether the data being submitted are pre- or post-operative data, and the specific PRO survey instruments for the patient. Each row in the Excel spreadsheet reflects an individual procedure and can be customized accordingly.

The variable names **P_TYPE**, **TODC**, **PS_PROM**, and **G_PROM** are defined as Procedure Type, Time of Data Collection, Procedure-Specific Patient-Reported Outcome Measure (PROM) survey, and Generic PROM, respectively. Additional data specifications for these variables can be found in the Data Dictionary. The Data Dictionary also has a worksheet summarizing any changes to the Template compared to prior versions. For the four *Customization Elements*, the drop-down menu options are:

- Procedure Type (P_TYPE): 1 = Left Hip Replacement **or** 2 = Right Hip Replacement **or** 3 = Left Knee Replacement **or** 4 = Right Knee Replacement (**Note:** This is a change from prior template versions)

- Time of Data Collection (TODC): 1=Pre-op **or** 2=Post-op
- Procedure Specific PROM (PS_PROM): Dependent on choice of Procedure Type, but can be 1=Hip dysfunction and Osteoarthritis Outcome Score for Joint Replacement (HOOS, JR) **or** 2=Hip dysfunction and Osteoarthritis Outcome Score (HOOS) Subscales; 3=Knee injury and Osteoarthritis Outcome Score for Joint Replacement (KOOS, JR) **or** 4=Knee injury and Osteoarthritis Outcome Score (KOOS) Subscales
- Generic PROM (G_PROM): 1=Veterans Rand 12-Item Health Survey (VR-12) **or** 2=Patient-Reported Outcomes Measurement Information Systems (PROMIS)-Global version 1.1 **or** 3=PROMIS-Global version 1.2

Once hospitals complete their selections of the four *Customization Elements*, the worksheet will automatically show the data elements that hospitals are to collect and submit in the remaining columns (E through CX). Data elements that are not applicable will be shaded gray. [Please note that in order for the template to correctly identify required variables, the Customization Elements must be entered sequentially beginning with column A.](#)

The column (CY) called **Core Data Missed**, located on the far right of this worksheet, will show the number of core data elements (or remaining data) hospitals must submit. This column is included to help hospitals perform automated self-checks on the completeness of their submitted data. As hospitals enter the core data elements, this number will automatically decrease accordingly. Hospitals can refer to the data dictionary for information on the core versus non-core data elements for collection and submission. A value of “0” in the Core Data Missed column indicates the data for that patient (row) are complete. The cells shaded gray indicate that data are not applicable based on the selections of the four *Customization Elements*, and not required for successful submission. Hospitals should not enter data in grayed-out fields. Please note, hospitals must thoroughly review their data for accuracy and completeness prior to submission.

In this worksheet, each data variable cell has a unique data validation rule which will reject invalid entries. Hospitals can click on the variable name in the first row of the worksheet ([Figure 1](#)), or refer to the comment automatically populated from the rejected cell for validation details ([Figure 2](#)).

Figure 1: Data validation rule when hospitals click on the variable name

	A	B	C	D	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1	P_TYPE	TODC	PS_PROM	G_PROM	CJR_HOO S_Q4	CJR_HOO S_Q5	CJR_HOO S_Q6	CJR_HOO S_Q7	CJR_HOO S_Q8	CJR_HOO S_Q9	CJR_HOO S_Q10	CJR_HOO S_Q11	CJR_HOO S_Q12	CJR_HOO S_Q13	CJR_HOO S_Q14
2	1	1	1	1											
3															
4															
5															
6															
7															

HOOS
0 = None
1 = Mild
2 = Moderate
3 = Severe
4 = Extreme

Figure 2: Data validation rule details from a rejected cell

	A	B	C	D	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1	P_TYPE	TODC	PS_PROM	G_PROM	CJR_HOO S_Q4	CJR_HOO S_Q5	CJR_HOO S_Q6	CJR_HOO S_Q7	CJR_HOO S_Q8	CJR_HOO S_Q9	CJR_HOO S_Q10	CJR_HOO S_Q11	CJR_HOO S_Q12	CJR_HOO S_Q13	CJR_HOO S_Q14
2	1	1	1	1											
3															
4															
5															
6															
7															

Integer ranging from 0-4

Note: The PRO Data Collection Template, in its macro-enabled .xlsm file format, provides important data quality checks to increase the likelihood of success for hospitals submitting data. The PRO Data Collection Template is the only quality check available. Hospitals must submit data using the template format. Failure to adhere to the template will result in your hospital's PRO data file not being processed by CMS. For the data collection template, please visit the CJR model site at: <https://innovation.cms.gov/innovation-models/cjr>.

Data Submission

Hospitals participating in the PRO and limited risk variable data reporting component of the CJR model will be asked to submit Personally Identifiable Information (PII) and Protected Health Information (PHI) in the Data Collection Template. **Do NOT email your data. Emailing these data is a health information privacy violation.**

Participating hospitals must meet the PRO and risk variable data reporting requirements for each PY in order to fulfill the successful data reporting criteria set forth in the 2015 CJR final rule and 2021 CJR final rule. Successful submission of THA/TKA PRO and risk variable data for eligible elective, primary THA/TKA procedures requires the completion of all the following:

1. Submission of the relevant data elements as finalized in the 2015 CJR final rule (refer to Table 28 of the final rule).
2. Submission for the required number of procedures as updated in the 2021 CJR final rule (refer to Table 5a of the final rule):

- In PY 7, post-operative data must be submitted on at least 80% or at least 300 of the eligible THA/TKA procedures performed during PY 6 (July 1, 2021 to June 30, 2022), and pre-operative and risk variable data must be submitted on at least 85% or at least 400 of the eligible procedures performed during PY 7 (July 1, 2022 to June 30, 2023).
 - In PY 8, post-operative data must be submitted on at least 85% or at least 400 of the eligible THA/TKA procedures performed during PY 7 (July 1, 2022 to June 30, 2023), and pre-operative and risk variable data must be submitted on at least 90% or at least 500 of the eligible procedures performed during PY 8 (July 1, 2023 to June 30, 2024).
3. THA/TKA data submission must occur within the periods listed below.
- In PY 7, PRO data must be submitted between August 1, 2023 and September 30, 2023.
 - In PY 8, PRO data must be submitted between August 1, 2024 and September 30, 2024.

Contacts and Additional Resources

For more information about the CJR model:

- Visit the Centers for Medicare & Medicaid Services 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

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