

CJRR

Canadian Joint Replacement Registry Minimum Data Set Manual

Updated 2025



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Introduction

About the Canadian Joint Replacement Registry

The Canadian Joint Replacement Registry (CJRR) is a pan-Canadian information system for hip and knee replacement surgeries. Its mandate is to record and analyze clinical parameters and outcomes of primary and revision hip and knee replacement surgeries over time. The registry was developed through a joint effort between the Canadian Institute for Health Information (CIHI) and orthopedic surgeons in Canada. The goal of CJRR is to provide information to help improve the quality of care and clinical outcomes of joint replacement recipients.

CJRR collects patient-specific information (clinical, surgical and prosthesis) on hip and knee replacement surgeries performed in Canada. As of 2018–2019, CJRR data can be submitted via the Discharge Abstract Database (DAD) under Group 20. Refer to the <u>DAD Abstracting</u> <u>Manual</u> for details about DAD submission and the <u>guidelines for entering product barcodes</u>.

As of 2022–2023, CJRR data is also submitted through the National Ambulatory Care Reporting System (NACRS) for outpatient surgeries. Please refer to the section Hip and Knee Prosthesis Information (CJRR) in the <u>NACRS Abstracting Manual</u> for guidelines on day surgeries.

Privacy and confidentiality

As a custodian of numerous registries and databases, CIHI has stringent policies to ensure that the privacy, confidentiality and security of its data holdings are protected. Information on CIHI's privacy and confidentiality policies and procedures is available on its website at cihi.ca.

For further information about CJRR's products and services, please visit our website at www.cihi.ca/cjrr.

Chapter 1 — Canadian Joint Replacement Registry data submissions

CJRR data may only be submitted electronically to CIHI via 3 modes:

- 1. CJRR electronic file system ("legacy CJRR"): Electronic files are submitted based on CJRR submission specifications outlined in this document. This option may not be available for your facility. If you have questions about this, please contact help@cihi.ca or your jurisdiction representative.
- 2. Discharge Abstract Database (DAD): Hip and knee replacement prosthesis information is submitted via the DAD in Group 20 based on instructions outlined in the DAD Abstracting Manual.
- **3. National Ambulatory Care Reporting System (NACRS):** Hip and knee replacement surgery information is submitted via NACRS based on instructions outlined in the *NACRS Abstracting Manual*.

Chapter 2 — Record information

Field 01: Record ID

Specifications

Туре	Details
Field length	11 numeric digits
Field status	Mandatory
Valid data	0–9
Joint type	Knee and hip

Definition

The Record ID is a code up to 11 digits that uniquely identifies the record in the database. The number **must** remain unchanged and should be referenced if the record needs to be updated.

Note

A unique ID for each record should be supplied by the data provider. Data suppliers will have to keep track of this number.

Health Card Number (HCN) is not permitted in the Record ID field. The record will be automatically rejected if both values match.

Field 02: Record Type

Specifications

Туре	Details
Field length	1 alphabetic character
Field status	Mandatory
Valid data	H, K
Joint type	Knee and hip

Definition

The Record Type defines whether the record refers to a hip or a knee replacement procedure.

The Record Type codes are the following:

Code	Description
Н	Hip
K	Knee

Field 03: Fiscal Year (of Surgery)

Specifications

Туре	Details
Field length	4 numeric digits
Field status	Mandatory
Valid data	0–9
Joint type	Knee and hip

Definition

The Fiscal Year (of Surgery) identifies the fiscal year to which the record should be allocated.

Note

The value is based on the surgery date. For example, if the surgery date is between April 1, 2018, and March 31, 2019, then the Fiscal Year (of Surgery) is 2018.

Example: The surgery was performed on May 18, 2018.

Fiscal Year (of Surgery)

2 0 1 8

Field 04: Hospital Province

Specifications

Туре	Details
Field length	2 alphabetic characters
Field status	Mandatory
Valid data	NL, PE, NS, NB, QC, ON, MB, SK, AB, BC, YT, NT, NU
Joint type	Knee and hip

Definition

The Hospital Province code identifies the province or territory of the institution where the joint replacement was performed.

The provincial/territorial codes are the following:

Code	Province/territory
NL	Newfoundland and Labrador
PE	Prince Edward Island
NS	Nova Scotia
NB	New Brunswick
QC	Quebec
ON	Ontario
MB	Manitoba
SK	Saskatchewan
AB	Alberta
ВС	British Columbia
YT	Yukon
NT	Northwest Territories
NU	Nunavut

Field 05: Submission Type

Specifications

Туре	Details
Field length	1 alphabetic character
Field status	Mandatory
Valid data	I, U
Joint type	Knee and hip

Definition

The Submission Type defines the specific operation to be performed with the record.

The Submission Type codes are the following:

Code	Description
1	Insert
U	Update

Note

Records are classified as I — *insert* (new records) or U — *update* (updated records). Resubmitted records are to be classified as updates and should use the original Record ID number. Insert records submitted in 1 fiscal period will be rejected if they are resubmitted as inserts in the next fiscal period. If the Submission Type is U, only clinical data can be updated, not patient and surgeon data.

Chapter 3 — Surgeon demographics

Field 06: Surgeon ID

Specifications

Туре	Details
Field length	11 numeric digits
Field status	Mandatory
Valid data	0–9
Joint type	Knee and hip

Definition

The Surgeon ID is a CIHI-assigned identification number for the orthopedic surgeon who performed the hip/knee replacement procedure. A Surgeon ID needs to be assigned prior to sending data to CJRR.

Note

The Surgeon ID will be provided to data providers in advance. Email <u>cjrr@cihi.ca</u> to request a Surgeon ID for new surgeons.

Field 07: Surgeon Last Name

Specifications

Туре	Details
Field length	25 alphabetic and special characters
Field status	Mandatory
Valid data	A–Z, space (), hyphen (-), period (.), apostrophe (')
Joint type	Knee and hip

Definition

Surgeon Last Name is the surname (or family name) of the orthopedic surgeon who performed the hip/knee replacement procedure.

Note

Surgeon Last Name submitted must exactly match the last name in the CJRR database (as supplied upon pre-registration), including punctuation (e.g., apostrophes, hyphens) and spaces.

Example: The surgeon's last name is O'Leary.

	Surgeon Last Name									
0	,	L	Е	Α	R	Υ				

Chapter 4 — Patient demographics

Field 08: Patient First Name

Specifications

Туре	Details
Field length	2–25 alphabetic and special characters
Field status	Mandatory
Valid data	A–Z, space (), hyphen (-), period (.), apostrophe (')
Joint type	Knee and hip

Definition

CJRR no longer requires the patient's first name; however, completion of the data field is still required. For successful submission, please enter "UNK" or another dummy value in the data field.

Example:				Patient First Name									
	U	Ν	K										

Field 09: Patient Last Name

Specifications

Туре	Details
Field length	2–25 alphabetic and special characters
Field status	Mandatory
Valid data	A–Z, space (), hyphen (-), period (.), apostrophe (')
Joint type	Knee and hip

Definition

CJRR no longer requires the patient's last name; however, completion of the data field is still required. For successful submission, please enter "UNK" or another dummy value in the data field.

Example:				Pat	tient	Las	t Na	me		
	U	N	K							

Field 10: Health Card Issuing Authority Code

Specifications

Туре	Details
Field length	3 alphabetic characters
Field status	Mandatory
Valid data	NL, PE, NS, NB, QC, ON, MB, SK, AB, BC, YT, NT, NU, CA, N/A
Joint type	Knee and hip

Definition

Health Card Issuing Authority Code is the code indicating the provincial/territorial authority that issued the health card.

The provincial/territorial authority codes are the following:

Code	Province/territory
NL	Government of Newfoundland and Labrador
PE	Government of Prince Edward Island
NS	Government of Nova Scotia
NB	Government of New Brunswick
QC	Government of Quebec
ON	Government of Ontario
MB	Government of Manitoba
SK	Government of Saskatchewan
AB	Government of Alberta
ВС	Government of British Columbia
YT	Government of Yukon
NT	Government of the Northwest Territories
NU	Government of Nunavut
CA	Government of Canada
N/A	Not applicable or international resident

Note

Use N/A when the HCN is not available (is blank).

Example:

An Alberta resident had knee replacement surgery in a British Columbia facility. The patient's 9-digit Alberta HCN is recorded in the Health Card Number field and the Health Card Issuing Authority Code is recorded as AB (Alberta) in the data file from the facility in British Columbia.

		Healt	h Ca	rd Nu	ımbeı	•				Prov	ince (Code
	1	2	3	4	5	6	7	8	9		Α	В

Example:

An RCMP officer (who has federal insurance coverage) had knee replacement surgery in a Nova Scotia facility. The Health Card Issuing Authority Code is recorded as CA (Government of Canada).

Health Card Number									Prov	ince (Code		
						1	2	3	4	5		С	Α

Example:

The patient is a resident of Saskatchewan but does not have provincial/territorial health coverage. The Health Card Issuing Authority Code is recorded as N/A (not applicable).

Or

The patient is a non-Canadian resident and does not have provincial/territorial health coverage. The Health Card Issuing Authority Code is recorded as N/A (international resident).

Health Card Number							Province Code						
											N	/	Α

Field 11: Health Card Number

Specifications

Type Details							
Field length 12 alphanumeric characters							
Field status	Mandatory						
Valid data	0–9, A–Z, blank						
Joint type	Knee and hip						

Definition

Health Card Number is the patient's health care/card number.

The Health Card Number will be validated according to the provincial/territorial algorithm.

This field must be completed in conjunction with the Health Card Issuing Authority Code field.

A federal Health Card Number (RCMP, veterans, etc.) will not be validated by CIHI.

The province-/territory-specific HCN value details are the following:

Province/territory	Value details				
NL	12 numeric; a valid MOD 10 check digited number				
PE	8 numeric; a valid MOD 10 check digited number				
NS 10 numeric; a valid MOD 10 check digited number					
NB 9 numeric; a valid MOD 10 check digited number					
QC	12 digits (4 alpha, 8 numeric)				
ON	10 digits (optional: 1 or 2 alpha characters for version codes if applicable); a valid MOD 10 check digited number				
MB	9 numeric				
SK	9 numeric; validation is done via a lookup table provided to CIHI by Saskatchewan Health				

Province/territory	Value details				
AB	9 numeric; the 5th digit is the check digit. The algorithm for validating the HCN involves 2 tables: Table A and Table B. Table A is 0246813579 Table B is 0987654321				
	Add together these values: 1st digit of HCN + 3rd digit of HCN + 6th digit of HCN + 8th digit of HCN +				
	Table A value at position (value of 2nd digit of HCN + 1) + Table A value at position (value of 4th digit of HCN + 1) + Table A value at position (value of 7th digit of HCN + 1) + Table A value at position (value of 9th digit of HCN + 1)				
	Divide that total by 10, giving a remainder. The 5th digit of HCN must = Table B value at position (remainder + 1).				
ВС	10 numeric; the validation is done using the first 10 digits only, with the 10th digit as the check digit.				
	Add together these values: 2nd digit of HCN times 2 + 3rd digit of HCN times 4 + 4th digit of HCN times 8 + 5th digit of HCN times 5 + 6th digit of HCN times 10 + 7th digit of HCN times 9 + 8th digit of HCN times 7 + 9th digit of HCN times 3				
	Divide the total by 11, giving a remainder. The 10th digit of HCN must = 11 - remainder.				
YT	9 numeric; a valid MOD 10 check digited number				
NT	8 digits (1 alpha [N, M, T, D, H]), 7 numeric; MOD 10 validation applied on first 8 digits with a 0 inserted as the first digit				
NU	9 numeric; first digit must be 1; last digit must be in (3, 4, 5, 6, 7, 8) and the 2nd through 8th digits of the HCN must be a valid MOD 10 check digited number				

Notes

Leave blank when the HCN is not available. In this case, Health Card Issuing Authority Code must be N/A.

For details on MOD 10 calculation, refer to Appendix F.

Example: Please see the examples for Field 10.

Field 12: Patient Birth Date

Specifications

Туре	Details
Field length	8 numeric digits
Field status	Mandatory
Valid data	0–9 in date format YYYYMMDD
Joint type	Knee and hip

Definition

Patient Birth Date is the calendar date the patient was born. The year must be 4 digits; the month and day must each be 2 digits.

Note

Age at time of surgery must be in the range 13 to 130 years.

Example: The birth date for a patient born on March 26, 1933, is recorded as 19330326.

Patient Birth Date							
1	9	3	3	0	3	2	6
Υ	Υ	Υ	Υ	М	М	D	D

Field 13: Gender

Specifications

Туре	Details
Field length	2 alphanumeric characters
Field status	Mandatory
Valid data	1, 2, ZZ
Joint type	Knee and hip

Definition

The Gender code describes the sex of the patient.

The Gender codes are the following:

Code	Description
1	Male
2	Female
ZZ	Other

Field 14: Patient Postal Code

Specifications

Туре	Details
Field length	6 alphanumeric digits
Field status	Mandatory
Valid code format	Z9Z9Z9, Z9Z9Z, Z9Z9, Z9Z
Valid data	A–Z, 0–9
Joint type	Knee and hip

Definition

The Patient Postal Code is the alphanumeric code assigned by Canada Post to identify the patient's place of residence.

The province-/territory-specific postal code details are the following:

Province/territory	Value details
NL	Starts with A
PE	Starts with C
NS	Starts with B
NB	Starts with E
QC	Starts with G, H, J
ON	Starts with K, L, M, N, P
MB	Starts with R
SK	Starts with S
АВ	Starts with T
ВС	Starts with V
YT	Starts with Y
NT	Starts with X0E, X1A, X0G
NU	Starts with X0A, X0B, X0C

Notes

If the patient does not have a postal code, if the postal code is unknown or if the patient has an international postal code, record Patient Postal Code as Z9Z9Z9, without spaces.

If the postal code is incomplete (i.e., in format Z9Z9Z, Z9Z9, Z9Z) a non-severe error (warning) will be issued. Refer to <u>Appendix D</u> for details.

Example: The patient's postal code is V6T 5A9.

Patient Postal Code						
٧	6	Т	5	Α	9	
Ζ	9	Z	9	Z	9	

Field 15: Hospital Institution Number

Specifications

Туре	Details
Field length	5 alphanumeric characters
Field status	Mandatory
Valid data	A-Z, 0-9
Joint type	Knee and hip

Definition

The Hospital Institution Number is a unique number that identifies the institution where the joint replacement was performed. The first digit specifies the province/territory.

The province/territory codes are as follows:

Province/territory	Code
NL	0
PE	1
NS	2
NB	3
QC	0–9
ON	5
MB	6
SK	7
AB	8
ВС	9
YT	Υ
NT	N
NU	V

Example: The patient's surgery was performed in an Alberta facility whose code is 89546.

Hospital Institution Number

8	9	5	4	6

Note

Prior to submitting data, submitting organizations, surgeons and hospitals/facilities need to pre-register with CJRR to be assigned IDs/numbers; otherwise, their records will not be recognized by the CJRR file processing system and will be rejected. Surgery performed at a day surgery facility should be submitted under the day surgery facility's number, if applicable. Facility numbers for day surgeries submitted to both CJRR and either the Discharge Abstract Database (DAD) or the National Ambulatory Care Reporting System (NACRS) should always match.

Field 16: Chart Number

Specifications

Туре	Details
Field length	4–12 alphanumeric characters
Field status	Mandatory
Valid data	A-Z, 0-9
Joint type	Knee and hip

Definition

The Chart Number is the unique number assigned by the admitting institution to identify the patient.

Notes

Chart Number cannot be fewer than 4 characters.

Health Card Number is not permitted in Chart Number field. For instances where Chart Number is not available or Health Card Number is included in the Chart Number, enter "UNKNOWN."

Field 17: Surgery Date

Specifications

Туре	Details
Field length	8 numeric digits
Field status	Mandatory
Valid data	0–9 in date format YYYYMMDD
Joint type	Knee and hip

Definition

The date of the hip or knee replacement surgery.

Note

For electronic file submissions, this date should be within the corresponding fiscal year; see Field 03: Fiscal Year (of Surgery).

Example:

A knee replacement surgery that was performed on November 4, 2012, is recorded as 20121104, with Fiscal Year (of Surgery) recorded as 2012.

		S	urgei	y Dat	te		
2	0	1	2	1	1	0	4
Υ	Υ	Υ	Υ	М	М	D	D

Chapter 5 — General procedure information

Field 18: Side (Location)

Specifications

Туре	Details
Field length	1 numeric digit
Field status	Mandatory
Valid data	1–4
Joint type	Knee and hip

Definition

The Side (Location) indicates whether a unilateral or a bilateral (right/left) joint replacement surgery was performed. Bilateral procedures are cases where both joints are done under the same anesthesia.

The Side (Location) codes are the following:

Code	Description	
1	Unilateral right	
2	Unilateral left	
3	Bilateral right	
4	Bilateral left	

Note

If bilateral, submit 1 record per side. Each record must have a different Record ID.

Field 19: Type of Replacement

Specifications

Туре	Details
Field length	1 numeric digit
Field status	Mandatory
Valid data	1, 2
Joint type	Knee and hip

Definition

The Type of Replacement field indicates the replacement type: primary or revision.

The Type of Replacement codes are the following:

Code	Description
1	Primary
2	Revision

Field 20: Type of Primary Procedure

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Mandatory if Type of Replacement = 1
Valid data	Knee: 1–5, OTH; Hip: 6–9, OTH
Joint type	Knee and hip

Definition

The Type of Primary Procedure indicates the primary procedure type performed on the patient. Refer to <u>Appendix A</u> for the corresponding component/prosthesis information required for each type of primary procedure.

The Type of Primary Procedure codes for knee and hip procedures are the following:

Code	Description	Joint type
1	Total knee arthroplasty (TKA), including patella	Knee
2	Total knee arthroplasty (TKA), excluding patella	Knee
3	Unicompartmental arthroplasty (UKA), medial	Knee
4	Unicompartmental arthroplasty (UKA), lateral	Knee
5	Patellofemoral arthroplasty (PFA)	Knee
6	Total hip arthroplasty	Hip
7	Resurfacing	Hip
8	Monopolar/unipolar hemiarthroplasty	Hip
9	Bipolar hemiarthroplasty	Hip
ОТН	Other	Knee and hip

Example:

The patient had a primary knee procedure, specifically a total knee arthroplasty excluding patella. Type of Replacement is coded as 1; Type of Primary Procedure is coded as 2.

Type of	Type of Primary
Replacement	Procedure
1	2

Example:

The patient had a revision procedure. Type of Replacement is coded as 2, so Type of Primary Procedure can be left blank.

Type of	Type of Primary
Replacement	Procedure
2	

Field 21: Diagnosis Grouping (primary procedures only)

Specifications

Туре	Details
Field length	2 alphanumeric characters
Field status	Mandatory if Type of Replacement = 1
Valid data	Knee: 1–6, ZZ; Hip: 1–5, 7–9, ZZ
Joint type	Knee and hip

Definition

The Diagnosis Grouping field indicates the patient's *most responsible* diagnosis grouping (as determined post-operatively) for the involved joint.

The Diagnosis Grouping codes for knee and hip procedures are the following:

Code	Description	Joint type
1	Degenerative arthritis (e.g., OA)	Knee and hip
2	Inflammatory arthritis (e.g., RA, AS, SLE)	Knee and hip
3	Osteonecrosis (e.g., AVN)	Knee and hip
4	Infection	Knee and hip
5	Tumour (primary and metastatic, including synovial)	Knee and hip
6	Fracture (femur or tibia)	Knee
7	Acute hip fracture (femur)	Hip
8	Childhood hip problem (e.g., hip dysplasia)	Hip
9	Old hip fracture (e.g., non-union, hardware failure)	Hip
ZZ	Other	Knee and hip

Example:

The patient's most responsible diagnosis for a primary hip replacement was an acute hip fracture. Type of Replacement is coded as 1; Diagnosis Grouping is coded as 7.

Type of	Diagnosis	
Replacement	Grouping	
1	7	

Example:

The patient had a revision procedure. Type of Replacement is coded as 2, so Diagnosis Grouping can be left blank.

Type of	Diagnosis	
Replacement	Grouping	
2		

Field 22: Reason for Revision (revision procedures only)

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Mandatory if Type of Replacement = 2
Valid data	Knee: 1–13, 18, OTH; Hip: 1–8, 11–12, 14–18, OTH
Joint type	Knee and hip

Definition

The Reason for Revision field indicates the patient's *most responsible* reason for revision (determined post-operatively) for the involved joint.

The Reason for Revision codes for knee and hip procedures are the following:

Code	Description	Joint type
1	Aseptic loosening	Knee and hip
2	Bearing wear (e.g., poly wear)	Knee and hip
3	Osteolysis	Knee and hip
4	Instability (e.g., dislocation, excludes patella for knee)	Knee and hip
5	Infection — single-stage revision	Knee and hip
6	Infection — stage 1 of 2-stage revision	Knee and hip
7	Infection — stage 2 of 2-stage revision	Knee and hip
8	Pain of unknown origin	Knee and hip
9	Patella maltracking or instability	Knee
10	Peri-prosthetic fracture (femur or tibia)	Knee
11	Implant fracture (any component)	Knee and hip
12	Implant dissociation (e.g., stem from tibial tray, head from trunnion)	Knee and hip
13	Arthritis in previously unresurfaced compartment (e.g., patellofemoral, medial or lateral compartment)	Knee
14	Peri-prosthetic fracture, femur	Hip
15	Peri-prosthetic fracture, acetabulum	Hip

Code	Description	Joint type
16	Acetabular erosion (e.g., hemiarthroplasty)	Hip
17	Leg length discrepancy	Hip
18	Stiffness	Knee and hip
ОТН	Other	Knee and hip

Example:

The patient had a revision procedure due to arthritis in the previously unresurfaced patellofemoral compartment. Type of Replacement is coded as 2; Reason for Revision is coded as 13.

Type of	Reason for		
Replacement	Revision		
2	1 3		

Chapter 6 — Knee replacement prosthesis information

General information

Knee replacement prosthesis information is gathered from the manufacturer's sticker for each component replaced. When a sticker is present, all of the following elements must be entered: manufacturer, product number and lot number. A maximum of 3 stickers for each component and 2 stickers for cement may be entered.

Refer to <u>Appendix A</u> for the corresponding component/prosthesis information required for each type of primary procedure, and to <u>Appendix B</u> for a reference guide on categorizing implant components.

As of April 2013, the CJRR electronic file submission system was modified to accept product and lot numbers for implant components and cement that have been scanned directly from barcodes. The CJRR system is still able to accept manually entered implant information when scanning barcodes is not an option. Refer to Appendix C for detailed instructions for both methods of data entry.

Note that CJRR does not require sticker information for sundry pieces involved in knee replacements, including augments, screws, nails, centralizers, rings, tapers and cages. Please contact CJRR if further details are required.

Fields 23, 27, 31: Femoral Component — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if femoral component was used
Valid data	1–11, OTH
Joint type	Knee and hip

Definition

The Femoral Component — Manufacturer field indicates the manufacturer of the femoral component used for the procedure.

The Femoral Component — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 24, 28, 32: Femoral Component — Manufacturer (Other)

Specifications

Туре	Details									
Field length	45 alphanumeric and special characters									
Field status	Applicable only if Femoral Component — Manufacturer = OTH									
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)									
Joint type	Knee and hip									

Definition

The Femoral Component — Manufacturer (Other) field indicates the manufacturer of the femoral component if *other* is indicated in the Femoral Component — Manufacturer field.

Example:

The patient's knee replacement used a femoral component made by the manufacturer Stryker. Femoral Component — Manufacturer is coded as 7, so Femoral Component — Manufacturer (Other) can be left blank.

	Femoral Component — Manufacturer																			
	7																			
Femoral Component — Manufacturer (Other)																				

Example:

The patient's knee replacement used a femoral component made by the manufacturer ABC Manufacturer. Femoral Component — Manufacturer is coded as OTH, so Femoral Component — Manufacturer (Other) is coded as ABC Manufacturer.

Femoral Component — Manufacturer														
O T H														
Femoral Component — Manufacturer (Other)														
A B C M A N U F A C T U R E R														

Fields 25, 29, 33: Femoral Component — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if femoral component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee and hip

Definition

The Femoral Component — Product Number field indicates the product (reference, catalogue or other) number of the femoral component used for the procedure.

Fields 26, 30, 34: Femoral Component — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if femoral component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee and hip

Definition

The Femoral Component — Lot Number field indicates the lot number of the femoral component used for the procedure.

Fields 35, 39, 43: Tibial Component — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if tibial component was used
Valid data	1–11, OTH
Joint type	Knee

Definition

The Tibial Component — Manufacturer field indicates the manufacturer of the tibial component used for the procedure. This includes all-poly tibias.

The Tibial Component — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 36, 40, 44: Tibial Component — Manufacturer (Other)

Specifications

Туре	Details								
Field length	45 alphanumeric and special characters								
Field status	Applicable only if Tibial Component — Manufacturer = OTH								
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)								
Joint type	Knee								

Definition

The Tibial Component — Manufacturer (Other) field indicates the manufacturer of the tibial component if *other* is indicated in the Tibial Component — Manufacturer field. This includes all-poly tibias.

Example:

The patient's knee replacement used a tibial component made by the manufacturer Ceraver. Tibial Component — Manufacturer is coded as 2, so Tibial Component — Manufacturer (Other) can be left blank.

	Tibial Component — Manufacturer																			
Tibial Component — Manufacturer (Other)																				

Example:

The patient's knee replacement used a tibial component made by the manufacturer ABC Manufacturer. Tibial Component — Manufacturer is coded as OTH, so Tibial Component — Manufacturer (Other) is coded as ABC Manufacturer.

Tibial Component — Manufacturer																				
O T H																				
Tibial Component — Manufacturer (Other)																				
					Α	В	С		М	Α	N	U	F	Α	С	Т	U	R	Е	R

Fields 37, 41, 45: Tibial Component — Product Number

Specifications

Туре	Details						
Field length	60 alphanumeric and special characters						
Field status	Applicable only if tibial component was used						
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)						
Joint type	Knee						

Definition

The Tibial Component — Product Number field indicates the product (reference, catalogue or other) number of the tibial component used for the procedure. This includes all-poly tibias.

Fields 38, 42, 46: Tibial Component — Lot Number

Specifications

Туре	Details						
Field length	60 alphanumeric and special characters						
Field status	Applicable only if tibial component was used						
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)						
Joint type	Knee						

Definition

The Tibial Component — Lot Number field indicates the lot number of the tibial component used for the procedure. This includes all-poly tibias.

Fields 47, 51, 55: Tibial Insert — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if tibial insert was used
Valid data	1–11, OTH
Joint type	Knee

Definition

The Tibial Insert — Manufacturer field indicates the manufacturer of the tibial insert used for the procedure.

The Tibial Insert — Manufacturer codes are the following:

Code	Description				
1	Biomet				
2	Ceraver				
3	DePuy/Finsbury/J&J				
4	Zimmer/Sulzer/Centerpulse				
5	MicroPort/Wright Medical				
6	Smith & Nephew				
7	Stryker/Osteonics/Howmedica				
8	Medacta International				
9	Link				
10	Corin				
11	Tecres Medical				
ОТН	Other				

Fields 48, 52, 56: Tibial Insert — Manufacturer (Other)

Specifications

Туре	Details					
Field length	length 45 alphanumeric and special characters					
Field status	us Applicable only if Tibial Insert — Manufacturer = OTH					
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)					
Joint type	Knee					

Definition

The Tibial Insert — Manufacturer (Other) field indicates the manufacturer of the tibial insert if *other* is indicated in the Tibial Insert — Manufacturer field.

Example:

The patient's knee replacement used a tibial insert made by the manufacturer MicroPort/Wright Medical. Tibial Insert — Manufacturer is coded as 5, so Tibial Insert — Manufacturer (Other) can be left blank.

Tibial Insert — Manufacturer															
5															
				Tibi	al In	sert	<u> </u>	Manι	ıfact	urer	(Otl	her)			

Example:

The patient's knee replacement used a tibial insert made by the manufacturer ABC Manufacturer. Tibial Insert — Manufacturer is coded as OTH, so Tibial Insert — Manufacturer (Other) is coded as ABC Manufacturer.

					Tibi	al In	sert	— N	lanu	fact	urer							
							0	Т	Н									
				Tibi	ial In	sert	<u> </u>	/lanı	ıfact	urer	(Otl	her)						
			Α	В	С		М	Α	N	U	F	Α	С	Т	U	R	Е	R

Fields 49, 53, 57: Tibial Insert — Product Number

Specifications

Туре	Details						
Field length	60 alphanumeric and special characters						
Field status	Applicable only if tibial insert was used						
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)						
Joint type	Knee						

Definition

The Tibial Insert — Product Number field indicates the product (reference, catalogue or other) number of the tibial insert used for the procedure.

Fields 50, 54, 58: Tibial Insert — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if tibial insert was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (¸)
Joint type	Knee

Definition

The Tibial Insert — Lot Number field indicates the lot number of the tibial insert used for the procedure.

Fields 59, 63, 67: Patellar Component — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if patellar component was used
Valid data	1–11, OTH
Joint type	Knee

Definition

The Patellar Component — Manufacturer field indicates the manufacturer of the patellar component used for the procedure.

The Patellar Component — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 60, 64, 68: Patellar Component — Manufacturer (Other)

Specifications

Туре	Details					
Field length	gth 45 alphanumeric and special characters					
Field status	Applicable only if Patellar Component — Manufacturer = OTH					
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)					
Joint type	Knee					

Definition

The Patellar Component — Manufacturer (Other) field indicates the manufacturer of the patellar component if *other* is indicated in the Patellar Component — Manufacturer field.

Example:

The patient's knee replacement used a patellar component made by the manufacturer Zimmer. Patellar Component — Manufacturer is coded as 4, so Patellar Component — Manufacturer (Other) can be left blank.

Patellar Component — Manufacturer																	
				Pat	ellar	Cor	npoi	nent	<u> </u>	4 ⁄Ianu	ıfact	urer	(Otl	ner)			

Example:

The patient's knee replacement used a patellar component made by the manufacturer ABC Manufacturer. Patellar Component — Manufacturer is coded as OTH, so Patellar Component — Manufacturer (Other) is coded as ABC Manufacturer.

			Pate	ellar	Con	npor	nent	— N	lanu	fact	urer						
						0	Т	Н									
		Pat	ellar	Cor	npo	nent	<u> </u>	/lanu	ıfact	urer	(Otl	her)					
		Α	В	С		М	Α	N	U	F	Α	С	Т	U	R	Ε	R

Fields 61, 65, 69: Patellar Component — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if patellar component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee

Definition

The Patellar Component — Product Number field indicates the product (reference, catalogue or other) number of the patellar component used for the procedure.

Fields 62, 66, 70: Patellar Component — Lot Number

Specifications

Туре	Details					
Field length	60 alphanumeric and special characters					
Field status Applicable only if patellar component was used						
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)					
Joint type	Knee					

Definition

The Patellar Component — Lot Number field indicates the lot number of the patellar component used for the procedure.

Fields 71, 75: Cement Details — Name

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if cement was used (if cement sticker is available)
Valid data	1–8, OTH
Joint type	Knee and hip

Definition

The Cement Details — Name field indicates the name of the cement used.

The Cement Details — Name codes are the following:

Code	Description
1	Simplex
2	Palacos
3	CMW
4	Cerafix
5	SmartSet
6	Refobacin
7	Versabond
8	Osteobond
ОТН	Mix/other

is coded as ABC Cement.

Fields 72, 76: Cement Details — Name (Other)

Specifications

Туре	Details						
Field length	45 alphanumeric and special characters						
Field status	Applicable only if Cement Details — Name = OTH						
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)						
Joint type	Knee and hip						

Definition

The Cement Details — Name (Other) field indicates the name of the cement if *other* is indicated in the Cement Details — Name field.

Example:

The patient's knee replacement was performed using Palacos cement.

Cement Details — Name is coded as 2, so Cement Details — Name (Other) can be left blank.

	Cement Details — Name																			
2																				
Cement Details — Name (Other)																				

Example:

The patient's knee replacement was performed using ABC Cement.

Cement Details — Name is coded as OTH, so Cement Details — Name (Other)

Fields 73, 77: Cement Details — Product Number

Specifications

Туре	Details					
Field length 60 alphanumeric and special characters						
Field status	Applicable only if cement was used (if cement sticker is available)					
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)					
Joint type	Knee and hip					

Definition

The Cement Details — Product Number field indicates the product (reference, catalogue or other) number of the cement used for the procedure.

Fields 74, 78: Cement Details — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if cement was used (if cement sticker is available)
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee and hip

Definition

The Cement Details — Lot Number field indicates the lot number of the cement used for the procedure.

Chapter 7 — Hip replacement prosthesis information

General information

Hip replacement prosthesis information is gathered from the manufacturer's sticker for each component replaced. When a sticker is present, all of the following elements must be entered: manufacturer, product number and lot number. A maximum of 3 stickers for each component and 2 stickers for cement may be entered.

Please refer to <u>Appendix A</u> for the corresponding component/prosthesis information required for each type of primary procedure, and to <u>Appendix B</u> for a reference guide on categorizing implant components.

As of April 2013, the CJRR electronic file submission system was modified to accept product and lot numbers for implant components and cement that have been scanned directly from barcodes. The CJRR system is still able to accept manually entered implant information when scanning barcodes is not an option. Refer to Appendix C for detailed instructions for both methods of data entry.

Note that CJRR does not require sticker information for sundry pieces involved in hip replacements, including augments, screws, nails, centralizers, rings, tapers and cages. Please contact CJRR if further details are required.

Fields 23, 27, 31: Femoral Component — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if femoral component was used
Valid data	1–11, OTH
Joint type	Knee and hip

Definition

The Femoral Component — Manufacturer field indicates the manufacturer of the femoral component used for the procedure. This includes modular body/stem/neck combinations and monoblock implants for hemiarthroplasties.

The Femoral Component — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 24, 28, 32: Femoral Component — Manufacturer (Other)

Specifications

Туре	Details
Field length	45 alphanumeric and special characters
Field status	Applicable only if Femoral Component — Manufacturer = OTH
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)
Joint type	Knee and hip

Definition

The Femoral Component — Manufacturer (Other) field indicates the manufacturer of the femoral component if *other* is indicated in the Femoral Component — Manufacturer field. This includes modular body/stem/neck combinations and monoblock implants for hemiarthroplasties.

Example:

The patient's hip replacement used a femoral component made by the manufacturer Biomet. Femoral Component — Manufacturer is coded as 1, so Femoral Component — Manufacturer (Other) can be left blank.

			Fen	nora	l Co	mpo	nent	— М	anu	factı	ırer				
								1							
		Fen	nora	l Co	mpc	nen	t — N	<i>l</i> lanu	fact	urer	(Otl	ner)			

Example:

The patient's hip replacement used a femoral component made by the manufacturer ABC Manufacturer. Femoral Component — Manufacturer is coded as OTH, so Femoral Component — Manufacturer (Other) is coded as ABC Manufacturer.

			Fem	oral	Cor	npoi	nent	— N	/lanu	ıfact	urer						
						0	Т	Н									
		Fen	ora	Co	mpo	nent	r	Manı	ufact	turer	Ot	her)					
		Α	В	С		М	Α	N	U	F	Α	С	Т	U	R	Ε	R

Fields 25, 29, 33: Femoral Component — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if femoral component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee and hip

Definition

The Femoral Component — Product Number field indicates the product (reference, catalogue or other) number of the femoral component used for the procedure. This includes modular body/stem/neck combinations and monoblock implants for hemiarthroplasties.

Fields 26, 30, 34: Femoral Component — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if femoral component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (¸)
Joint type	Knee and hip

Definition

The Femoral Component — Lot Number field indicates the lot number of the femoral component used for the procedure. This includes modular body/stem/neck combinations and monoblock implants for hemiarthroplasties.

Fields 35, 39, 43: Femoral Head — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if femoral head was used
Valid data	1–11, OTH
Joint type	Hip

Definition

The Femoral Head — Manufacturer field indicates the manufacturer of the femoral head used for the procedure. This includes bipolar heads, bipolar liners and bipolar cups/shells for hemiarthroplasties.

The Femoral Head — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 36, 40, 44: Femoral Head — Manufacturer (Other)

Specifications

Туре	Details
Field length	45 alphanumeric and special characters
Field status	Applicable only if Femoral Head — Manufacturer = OTH
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)
Joint type	Hip

Definition

The Femoral Head — Manufacturer (Other) field indicates the manufacturer of the femoral head if *other* is indicated in the Femoral Head — Manufacturer field. This includes bipolar heads, bipolar liners and bipolar cups/shells for hemiarthroplasties.

Example:

The patient's hip replacement used a femoral head made by the manufacturer DePuy/Finsbury. Femoral Head — Manufacturer is coded as 3, so Femoral Head — Manufacturer (Other) can be left blank.

						Fem	oral	Hea	d —	Man	ufac	ture	r				
3																	
					Fem	oral	Hea	ıd —	Mar	nufa	cture	er (O	ther)			

Example:

The patient's hip replacement used a femoral head made by the manufacturer ABC Manufacturer. Femoral Head — Manufacturer is coded as OTH, so Femoral Head — Manufacturer (Other) is coded as ABC Manufacturer.

				Fem	oral	Hea	d —	Man	ufac	cture	r						
						0	Т	Н									
			Fem	oral	Hea	d —	Maı	nufa	cture	er (O	ther)					
		Α	В	С		М	Α	Ν	U	F	Α	С	Т	U	R	Е	R

Fields 37, 41, 45: Femoral Head — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if femoral head was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Hip

Definition

The Femoral Head — Product Number field indicates the product (reference, catalogue or other) number of the femoral head used for the procedure. This includes bipolar heads, bipolar liners and bipolar cups/shells for hemiarthroplasties.

Fields 38, 42, 46: Femoral Head — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if femoral head was used
Valid data	0–9, A–Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Hip

Definition

The Femoral Head — Lot Number field indicates the lot number of the femoral head used for the procedure. This includes bipolar heads, bipolar liners and bipolar cups/shells for hemiarthroplasties.

Fields 47, 51, 55: Acetabular Component — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if acetabular component was used
Valid data	1–11, OTH
Joint type	Hip

Definition

The Acetabular Component — Manufacturer field indicates the manufacturer of the acetabular component used for the procedure.

The Acetabular Component — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 48, 52, 56: Acetabular Component — Manufacturer (Other)

Specifications

Туре	Details
Field length	45 alphanumeric and special characters
Field status	Applicable only if Acetabular Component — Manufacturer = OTH
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)
Joint type	Hip

Definition

The Acetabular Component — Manufacturer (Other) field indicates the manufacturer of the acetabular component if *other* is indicated in the Acetabular Component — Manufacturer field.

Example:

The patient's hip replacement used an acetabular component made by the manufacturer Medacta International. Acetabular Component — Manufacturer is coded as 8, so Acetabular Component — Manufacturer (Other) can be left blank.

Acetabular Component — Manufacturer																		
8																		
 Acetabular Component — Manufacturer (Other)																		

Example:

The patient's hip replacement used an acetabular component made by the manufacturer ABC Manufacturer. Acetabular Component — Manufacturer is coded as OTH, so Acetabular Component — Manufacturer (OTH) is coded as ABC Manufacturer.

					A	ceta	bula	ar Co	omp	oner	nt —	Mar	nufac	cture	er					
									0	Т	Н									
	Acetabular Component — Manufacturer (Other)																			
					Α	В	С		М	Α	N	U	F	Α	С	Т	U	R	Е	R

Fields 49, 53, 57: Acetabular Component — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if acetabular component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Hip

Definition

The Acetabular Component — Product Number field indicates the product (reference, catalogue or other) number of the acetabular component used for the procedure.

Fields 50, 54, 58: Acetabular Component — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if acetabular component was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Hip

Definition

The Acetabular Component — Lot Number field indicates the lot number of the acetabular component used for the procedure.

Fields 59, 63, 67: Acetabular Insert/Liner — Manufacturer

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if acetabular insert/liner was used
Valid data	1–11, OTH
Joint type	Hip

Definition

The Acetabular Insert/Liner — Manufacturer field indicates the manufacturer of the acetabular insert/liner used for the procedure.

The Acetabular Insert/Liner — Manufacturer codes are the following:

Code	Description
1	Biomet
2	Ceraver
3	DePuy/Finsbury/J&J
4	Zimmer/Sulzer/Centerpulse
5	MicroPort/Wright Medical
6	Smith & Nephew
7	Stryker/Osteonics/Howmedica
8	Medacta International
9	Link
10	Corin
11	Tecres Medical
ОТН	Other

Fields 60, 64, 68: Acetabular Insert/Liner — Manufacturer (Other)

Specifications

Туре	Details
Field length	45 alphanumeric and special characters
Field status	Applicable only if Acetabular Insert/Liner — Manufacturer = OTH
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)
Joint type	Hip

Definition

The Acetabular Insert/Liner — Manufacturer (Other) field indicates the manufacturer of the acetabular insert/Liner if *other* is indicated in the Acetabular Insert/Liner — Manufacturer field.

Example:

The patient's hip replacement used an acetabular insert/liner made by the manufacturer Smith & Nephew. Acetabular Insert/Liner — Manufacturer is coded as 6, so Acetabular Insert/Liner — Manufacturer (Other) can be left blank.

Acetabular Insert/Liner — Manufacturer																			
Acetabular Insert/Liner — Manufacturer (Other)																			

Example:

The patient's hip replacement used an acetabular insert/liner made by the manufacturer ABC Manufacturer. Acetabular Insert/Liner — Manufacturer is coded as OTH, so Acetabular Insert/Liner — Manufacturer (Other) is coded as ABC Manufacturer.

				Δ	ceta	bula	ar In	sert/	Line	er —	Mar	ufac	cture	er					
OTH																			
Acetabular Insert/Liner — Manufacturer (Other)																			
				Α	В	С		М	Α	N	U	F	Α	С	Т	U	R	Ε	R

Fields 61, 65, 69: Acetabular Insert/Liner — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if acetabular insert/liner was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Нір

Definition

The Acetabular Insert/Liner — Product Number field indicates the product (reference, catalogue or other) number of the acetabular insert/liner used for the procedure.

Fields 62, 66, 70: Acetabular Insert/Liner — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if acetabular insert/liner was used
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Hip

Definition

The Acetabular Insert/Liner — Lot Number field indicates the lot number of the acetabular insert/liner used for the procedure.

Fields 71, 75: Cement Details — Name

Specifications

Туре	Details
Field length	3 alphanumeric characters
Field status	Applicable only if cement was used (if cement sticker is available)
Valid data	1–8, OTH
Joint type	Knee and hip

Definition

The Cement Details — Name field indicates the name of the cement used.

The Cement Details — Name codes are the following:

Code	Description
1	Simplex
2	Palacos
3	CMW
4	Cerafix
5	SmartSet
6	Refobacin
7	Versabond
8	Osteobond
ОТН	Mix/other

Fields 72, 76: Cement Details — Name (Other)

Specifications

Туре	Details				
Field length	45 alphanumeric and special characters				
Field status	Applicable only if Cement Details — Name = OTH				
Valid data	0–9, A–Z, space (), hyphen (-), period (.), apostrophe ('), ampersand (&)				
Joint type	Knee and hip				

Definition

The Cement Details — Name (Other) field indicates the name of the cement if *other* is indicated in the Cement Details — Name field.

Example:

The patient's hip replacement was performed using CMW cement.

Cement Details — Name was coded as 3, so Cement Details — Name (Other)

can be left blank.

Cement Details — Name						
		3				
	Cement Details — N	ame (Other)				

Example:

The patient's hip replacement was performed using ABC Cement.

Cement Details — Name is coded as OTH, so Cement Details — Name (Other) is coded as ABC Cement.

	Ce	ment D	etail	s —	Nam	ne							
		0	Т	Н									
	Cemen	t Detail	s —	Nan	ne (C	Othe	r)						
				Α	В	С		С	Е	М	Е	N	Т

Fields 73, 77: Cement Details — Product Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if cement was used (if cement sticker is available)
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee and hip

Definition

The Cement Details — Product Number field indicates the product (reference, catalogue or other) number of the cement used for the procedure.

Fields 74, 78: Cement Details — Lot Number

Specifications

Туре	Details
Field length	60 alphanumeric and special characters
Field status	Applicable only if cement was used (if cement sticker is available)
Valid data	0-9, A-Z, underscore (_), space (), hyphen (-), period (.), apostrophe ('), percent sign (%), ampersand (&), plus sign (+), forward slash (/), dollar sign (\$), right square bracket (]), cedilla (,)
Joint type	Knee and hip

Definition

The Cement Details — Lot Number field indicates the lot number of the cement used for the procedure.

Indices

Numeric index by field

Record information

Field	Field name
01	Record ID
02	Record Type
03	Fiscal Year (of Surgery)
04	Hospital Province
05	Submission Type

Surgeon information

Field	Field name
06	Surgeon ID
07	Surgeon Last Name

Patient information

Field	Field name
08	Patient First Name
09	Patient Last Name
10	Health Card Issuing Authority Code
11	Health Card Number
12	Patient Birth Date
13	Gender
14	Patient Postal Code
15	Hospital Institution Number/Hospital Name
16	Chart Number
17	Surgery Date

General procedure information

Field	Field name
18	Side (Location)
19	Type of Replacement
20	Type of Primary Procedure
21	Diagnosis Grouping (primary procedures only)
22	Reason for Revision (revision procedures only)

Knee replacement — **Prosthesis information**

Field	Field name		
23, 27, 31	Femoral Component — Manufacturer		
24, 28, 32	Femoral Component — Manufacturer (Other)		
25, 29, 33	Femoral Component — Product Number		
26, 30, 34	Femoral Component — Lot Number		
35, 39, 43	Tibial Component — Manufacturer		
36, 40, 44	Tibial Component — Manufacturer (Other)		
37, 41, 45	Tibial Component — Product Number		
38, 42, 46	Tibial Component — Lot Number		
47, 51, 55	Tibial Insert — Manufacturer		
48, 52, 56	Tibial Insert — Manufacturer (Other)		
49, 53, 57	Tibial Insert — Product Number		
50, 54, 58	Tibial Insert — Lot Number		
59, 63, 67	Patellar Component — Manufacturer		
60, 64, 68	Patellar Component — Manufacturer (Other)		
61, 65, 69	Patellar Component — Product Number		
62, 66, 70	Patellar Component — Lot Number		
71, 75	Cement Details — Name		
72, 76	Cement Details — Name (Other)		
73, 77	Cement Details — Product Number		
74, 78	Cement Details — Lot Number		

Hip replacement — **Prosthesis information**

Field	Field name		
23, 27, 31	Femoral Component — Manufacturer		
24, 28, 32	Femoral Component — Manufacturer (Other)		
25, 29, 33	Femoral Component — Product Number		
26, 30, 34	Femoral Component — Lot Number		
35, 39, 43	Femoral Head — Manufacturer		
36, 40, 44	Femoral Head — Manufacturer (Other)		
37, 41, 45	Femoral Head — Product Number		
38, 42, 46	Femoral Head — Lot Number		
47, 51, 55	Acetabular Component — Manufacturer		
48, 52, 56	Acetabular Component — Manufacturer (Other)		
49, 53, 57	Acetabular Component — Product Number		
50, 54, 58	Acetabular Component — Lot Number		
59, 63, 67	Acetabular Insert/Liner — Manufacturer		
60, 64, 68	Acetabular Insert/Liner — Manufacturer (Other)		
61, 65, 69	Acetabular Insert/Liner — Product Number		
62, 66, 70	Acetabular Insert/Liner — Lot Number		
71, 75	Cement Details — Name		
72, 76	Cement Details — Name (Other)		
73, 77	Cement Details — Product Number		
74, 78	Cement Details — Lot Number		

Alphabetic index by field name

Field name	Joint type	Field
Acetabular Component — Lot Number	Hip	50, 54, 58
Acetabular Component — Manufacturer	Hip	47, 51, 55
Acetabular Component — Manufacturer (Other)	Hip	48, 52, 56
Acetabular Component — Product Number	Hip	49, 53, 57
Acetabular Insert/Liner — Lot Number	Hip	62, 66, 70
Acetabular Insert/Liner — Manufacturer	Hip	59, 63, 67
Acetabular Insert/Liner — Manufacturer (Other)	Hip	60, 64, 68
Acetabular Insert/Liner — Product Number	Hip	61, 65, 69
Cement Details — Lot Number	Hip/knee	74, 78
Cement Details — Name	Hip/knee	71, 75
Cement Details — Name (Other)	Hip/knee	72, 76
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Chart Number	Hip/knee	16
Diagnosis Grouping (primary procedures only)	Hip/knee	21
Femoral Component — Lot Number	Hip/knee	26, 30, 34
Femoral Component — Manufacturer	Hip/knee	23, 27, 31
Femoral Component — Manufacturer (Other)	Hip/knee	24, 28, 32
Femoral Component — Product Number	Hip/knee	25, 29, 33
Femoral Head — Lot Number	Hip	38, 42, 46
Femoral Head — Manufacturer	Hip	35, 39, 43
Femoral Head — Manufacturer (Other)	Hip	36, 40, 44
Femoral Head — Product Number	Hip	37, 41, 45
Fiscal Year (of Surgery)	Hip/knee	03
Gender	Hip/knee	13
Health Card Issuing Authority Code	Hip/knee	10
Health Card Number	Hip/knee	11
Hospital Institution Number/Hospital Name	Hip/knee	15
Hospital Province	Hip/knee	04
Patellar Component — Lot Number	Knee	62, 66, 70
Patellar Component — Manufacturer	Knee	59, 64, 67
Patellar Component — Manufacturer (Other)	Knee	60, 64, 68
Patellar Component — Product Number	Knee	61, 65, 69
Patient Birth Date	Hip/knee	12
Patient First Name	Hip/knee	08
Patient Last Name	Hip/knee	09
Patient Postal Code	Hip/knee	14

Field name	Joint type	Field
Reason for Revision (revision procedures only)	Hip/knee	22
Record ID	Hip/knee	01
Record Type	Hip/knee	02
Side (Location)	Hip/knee	18
Submission Type	Hip/knee	05
Surgeon ID	Hip/knee	06
Surgeon Last Name	Hip/knee	07
Surgery Date	Hip/knee	17
Tibial Component — Lot Number	Knee	38, 42, 46
Tibial Component — Manufacturer	Knee	35, 39, 43
Tibial Component — Manufacturer (Other)	Knee	36, 40, 44
Tibial Component — Product Number	Knee	37, 41, 45
Tibial Insert — Lot Number	Knee	50, 54, 58
Tibial Insert — Manufacturer	Knee	47, 51, 55
Tibial Insert — Manufacturer (Other)	Knee	48, 52, 56
Tibial Insert — Product Number	Knee	49, 53, 57
Type of Primary Procedure	Hip/knee	20
Type of Replacement	Hip/knee	19

Appendices

Appendix A: Prosthesis information required, by type of primary procedure

Knee — Type of primary procedure	Mandatory components	Additional components (if applicable)
Total knee arthroplasty (TKA), including patella	Femoral, tibial and patellar components	Tibial insert
Total knee arthroplasty (TKA), excluding patella	Femoral and tibial components	Tibial insert
Unicompartmental arthroplasty (UKA), medial	Femoral and tibial components	Tibial insert
Unicompartmental arthroplasty (UKA), lateral	Femoral and tibial components	Tibial insert
Patellofemoral arthroplasty (PFA)	Femoral and patellar components	_
Other	Any component or cement involved (at least one)	_
Knee — Revision	Any component or cement involved (at least one)	

Hip — Type of primary procedure	Mandatory components	Additional components (if applicable)
Total hip arthroplasty	Femoral component, femoral head and acetabular component	Acetabular insert/liner
Resurfacing	Femoral head	Acetabular component
Monopolar/unipolar hemiarthroplasty	Femoral component	Femoral head
Bipolar hemiarthroplasty	Femoral component and femoral head	_
Other	Any component involved (at least one)	_
Hip — Revision	Any component involved (at least one)	_

Appendix B: Component information categorization

Hip / Hanche

Component	English	Français
Femoral component / Composant fémoral	Modular body/stem/ neck combinations Femoral component/femoral stem Monoblock implant for hemiarthroplasty (e.g., Austin-Moore, Thompson implants) Endoprosthesis Prefabricated femoral component cement spacer, temporary joint prosthesis or mould	Combinaisons de corps/tige/ col modulaires Composant fémoral/prothèse fémorale/tige fémorale/ implant fémoral Prothèse monobloc pour les hémiarthroplasties (p. ex. prothèse d'Austin-Moore ou prothèse de Thompson) Composant fémoral préfabriqué, moule ou dispositif d'espacement en ciment Composant fémoral préfabriqué, moule ou « spacer » en ciment
Femoral head / Tête fémorale	Bipolar head (bipolar cup and bipolar liner/bipolar shell) Monopolar head Femoral head Resurfacing head Prefabricated femoral head cement spacer, temporary joint prosthesis or mould	Tête bipolaire et cupule bipolaire Tête fémorale/tête sphérique Prothèse de resurfaçage Tête fémorale préfabriquée, moule ou dispositif d'espacement en ciment Tête fémorale préfabriquée, moule ou « spacer » en ciment
Acetabular component / Composant acétabulaire	Acetabular component/ acetabular shell/acetabular cup/hemispherical shell Cluster acetabular shell Monoblock acetabular cup/1-piece cup All-polyethylene acetabular cup Prefabricated acetabular component cement spacer, temporary joint prosthesis or mould	 Composant acétabulaire Cotyle/cotyle en polyéthylène Prothèse cotyloïdienne Prothèse de cupule acétabulaire Cupule hémisphérique Coque acétabulaire Renfort acétabulaire Composant acétabulaire préfabriqué, moule ou dispositif d'espacement en ciment Composant acétabulaire préfabriqué, moule ou « spacer » en ciment
Acetabular liner/insert / Insert acétabulaire	Acetabular liner/acetabular insert Polyethylene/metal/ceramic insert	Noyau/noyau en polyéthylène Insert/insert acétabulaire Insert en polyéthylène/ métal/ céramique

Knee / Genou

Component	English	Français
Femoral component /	Femoral component	Composant fémoral
Composant fémoral	Trochlear component	Composant trochléen
	Femoral stem/modular femoral stem	Prothèse fémoro-patellaire
	Prefabricated femoral component	Tige fémorale/tige fémorale modulaire
	cement spacer, temporary joint prosthesis or mould	Composant fémoral préfabriqué, moule ou dispositif d'espacement en ciment
		Composant fémoral préfabriqué, moule ou « spacer » en ciment
Tibial component /	Monoblock (all polyethylene)	Tibia tout polyéthylène
Composant tibial	tibial component	Embase tibiale/implant tibial
	Tibial component/tibial baseplate/	Plateau tibial monobloc
	tibial tray	Tige tibiale/tige tibiale modulaire
	• Stemmed tibial component	Composant tibial préfabriqué, moule
	Tibial stem/modular tibial stem	ou dispositif d'espacement en ciment
	Modular tibial system	Composant tibial préfabriqué, moule
	Prefabricated tibial component cement spacer, temporary joint prosthesis or mould	ou « spacer » en ciment
Tibial insert / Insert tibial	Tibial insert/tibial plateau	Plateau tibial
	Poly insert	Surface articulaire
	Articular surface	
	Meniscal bearing	
Patellar component /	Patellar component	Bouton rotulien
Composant rotulien	All-poly patella	Bouton rotulien monobloc

Exclusions

English	Français
• Rings	Bagues
• Cages	• Cages
• Screws	• Vis
 Augments/blocks/wedges/cones 	Blocs d'augmentation/cônes
• Plugs	Bouchons/obturateurs
• Cables	• Câbles
• Plates	• Plaques
Centralizers	Centreurs
Stem extenders	Tiges d'extension
Cement restrictors	Obturateurs en ciment
 Tapers/taper sleeves/sleeves/adapters/ adapter sleeves 	Cônes/manchons de cônes

Appendix C: Entering prosthesis and cement information

Product stickers are not standardized across and even within manufacturers, so data providers must ensure that the correct barcode is entered and appears in the appropriate data field (i.e., Product Number versus Lot Number).

Product numbers are unique within manufacturers, so it is important to code the correct manufacturer when submitting prosthesis information. For example, any sticker that indicates the manufacturer **JOHNSON** or **JOHNSON** & **JOHNSON** should be coded under Manufacturer code 3: DePuy/Finsbury/J&J.

Note: All samples of product stickers provided below are fictitious yet resemble actual product stickers from a variety of manufacturers.

Data submitters are provided with 2 options when entering product or cement information: barcode scanning and manual entry.

For vendor-based systems that already support barcode scanning as part of their CJRR data capture systems, the CJRR team recommends that data providers maintain their existing business processes. In these instances, the correct product and lot numbers are already being extracted from the barcodes and submitted to CJRR.

Barcode scanning

Step 1: Setting up your barcode scanner

The first step is to **enable transmission of the Automatic Identification and Mobility (AIM) Code**. Please refer to your scanner's user manual for more information. Scanner settings are often enabled or disabled by scanning special barcodes provided in the user manual.

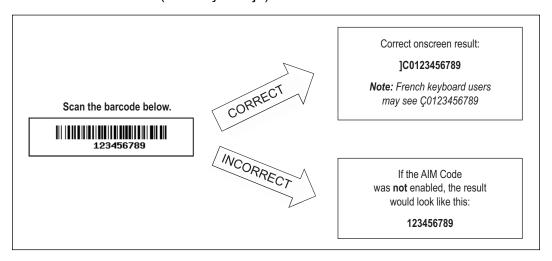
Enabling the AIM Code is necessary for the CJRR system to recognize the entry as a scanned barcode rather than a manually entered value. Without the AIM Code, the CJRR system will not extract the necessary product and lot information.

Step 2: Verifying that AIM Code transmission is enabled

To verify that the AIM Code transmission is enabled, **please scan the barcode below**. Onscreen, you should see the following: **]C0123456789**. Note the right square bracket (]) at the beginning of the output.

Note: The language of your keyboard affects how a barcode scanner reads data; only the keyboard languages "US" (English) and "Canadian French" are supported by the CJRR system. "Canadian Multilingual Standard" and all other keyboard languages are not supported.

French keyboard users: In place of the leading right square bracket, the scanned output will lead with a cedilla (either "," or "Ç").



Step 3: Scanning

With the AIM Code enabled, each scanned barcode should lead with a right square bracket (1). If this is missing, it may be an indication that the AIM Code was not enabled (see Step 1).

French keyboard users: In place of the leading right square bracket, the scanned output will lead with a cedilla (either "," or "Ç").

Entering product information (using scanner or manual entry)

Reminder: Product stickers are not standardized across manufacturers and, sometimes, within manufacturer lines. Please study the variations in stickers in your facility to become familiar with how they should be entered using the instructions below. The following instructions for entering product information apply to both barcode scanning and manual entry.

In a few circumstances, there are special handling exceptions for certain manufacturers. Across all stickers, the terms "catalogue number" and "reference number" are used interchangeably.

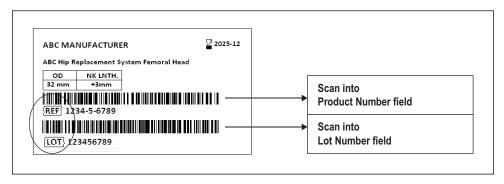
a) Stickers with 2 barcodes

In most cases, there will be character strings below each barcode; they contain the catalogue or reference number (top barcode) and the lot number (bottom barcode).

Link products: Do not scan the barcodes. The product and lot numbers need to be entered manually.

All other manufacturers: Scan the top barcode into the Product Number field and the bottom barcode into the Lot Number field. The scanned output may contain additional symbols or numbers. Do not edit or change the character string that appears in the scanned output. Alternatively, manually enter the catalogue/reference number into the Product Number field and the lot number into the Lot Number field.

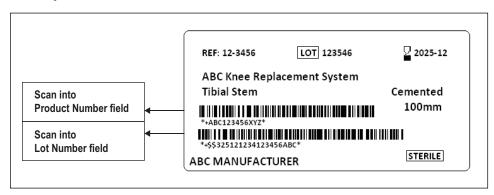
Example 1



Note

* For Link products, manually enter the catalogue/reference and lot numbers exactly as they are shown (in Example 1, for the reference number, enter 1234-5-6789, and for the lot number, enter 123456789).

Example 2

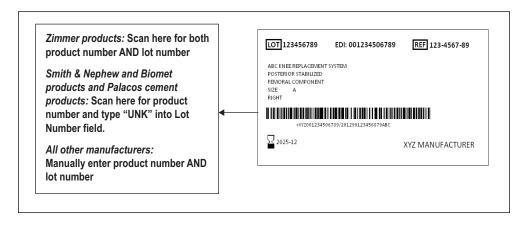


b) Stickers with a single barcode

Zimmer products: Zimmer product stickers contain 1 barcode that has both the catalogue/reference number and lot number embedded in the character string below the single barcode. Scan the barcode into the Product Number field and again into the Lot Number field. Alternatively, manually enter the catalogue/reference number into the Product Number field and the lot number into the Lot Number field.

Smith & Nephew or Biomet products, or Palacos cements: For Smith & Nephew and Biomet products or Palacos cements (with only 1 one-dimensional linear barcode), manually enter or scan the barcode into the Product Number field and enter "UNK" or the lot number into the Lot Number field.

Cerafix and all other manufacturers: *Manually enter* the catalogue/reference number into the Product Number field and the lot number into the Lot Number field.



c) Stickers with a two-dimensional (2D) barcode

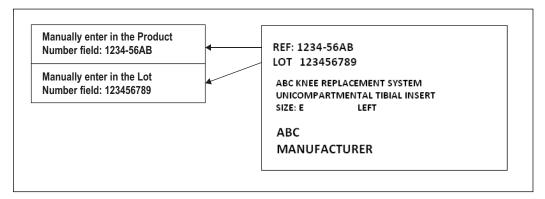
If both one-dimensional (linear) and two-dimensional (square, data matrix) barcodes are available, scan or manually enter the one-dimensional barcode(s) according to the above instructions.

If only a square 2D barcode is available, scan the 2D barcode into the Product Number field and enter "UNK" into the Lot Number field. Alternatively, manually enter the catalogue/reference number into the Product Number field and the lot number into the Lot Number field.

Note: A compatible scanner is required to scan two-dimensional barcodes.

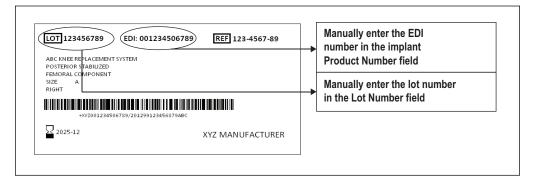
d) Stickers with no barcodes

Manually enter the catalogue/reference number into the Product Number field and the lot number into the Lot Number field. Include any dashes, as shown below.



For Zimmer products, the product number is often referred to as the EDI number.

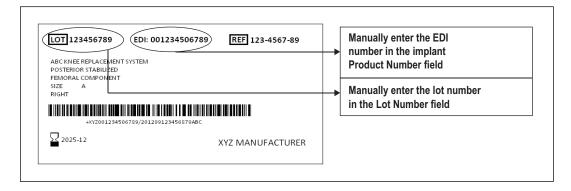
- If there is an EDI number, manually enter it in the implant Product Number field.
- If there is no EDI number, manually enter the catalogue number (also known as the reference number) in the implant Product Number field.



e) Stickers with missing or unknown barcodes

In cases where a product's information is missing or damaged, data providers can complete the occurrence as follows:

- Product number = UNK
- Lot number = UNK
- Manufacturer = Select "Other/Autre" and enter "Missing"



For more information

Product labelling can change over time. We kindly ask data providers to report any discrepancies, new sticker variations or issues to cjrr@cihi.ca.

Appendix D: Deleting and correcting CJRR records

When communicating with CJRR about specific records, **do not send personal health information (PHI) via email or fax**, as these are not secure methods of data transmission. To delete a patient or procedure record or to update existing patient information, contact CJRR by email (<u>cirr@cihi.ca</u>) and provide the information listed below.

- To delete a patient, follow this process:
 - Contact CJRR by email (cirr@cihi.ca) for specific instructions.
 Do not send PHI via email or fax.
- To delete a procedure, provide this information:
 - Record_id
 - Surgery date
 - Joint type
 - Side (location)
 - Type of replacement
 - Surgeon_id
- To correct existing patient information, follow this process:
 - Contact CJRR by email (cirr@cihi.ca) for specific instructions.
 Do not send PHI via email or fax.

Appendix E: CJRR error decoder

Data element name	Error number	Error condition	Error message	Error type	System action
Record ID (H and K)	1-1	Field is blank	Missing value	Severe	Record rejected
	1-2	Field is not numeric	Invalid value	Severe	Record rejected
	1-3	Field length is not between 1 and 11 digits	Out of range	Severe	Record rejected
	1-4	Submission type is U and Record ID does not exist in database	Corresponding record does not exist in the database for the submitted update record	Severe	Record rejected
	1-5	Submission type is I and Record ID already exists in the database	Record ID already exists in database	Severe	Record rejected
	1-6	More than one record with the same Record ID in the same file	More than one record with the same Record ID found in the submission file	Severe	Record rejected
	1-7	Value matches Health Card Number (field 11)	Submitted value must not match the submitted Health Card Number	Severe	Record rejected
Record Type	2-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	2-2	Value in field is not 1 of the 2 options	Invalid value	Severe	Record rejected
	2-3	Value in field doesn't match the value in control record	Record type mismatch with value in control record	Severe	Record rejected
Fiscal Year	3-1	Field is blank	Missing value	Severe	Record rejected
(of Surgery) (H and K)	3-2	Fiscal year not same as year in control record	Fiscal year mismatch with year in control record	Severe	Record rejected
	3-3	Invalid value	Invalid value	Severe	Record rejected
Hospital Province	4-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	4-2	Invalid value	Invalid value	Severe	Record rejected
Submission Type	5-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	5-2	Invalid value	Invalid value	Severe	Record rejected

Data element name	Error number	Error condition	Error message	Error type	System action
Surgeon ID (H and K)	6-1	Field is blank	Missing value	Severe	Record rejected
	6-2	Surgeon ID not found in database	Value not found in database	Severe	Record rejected
	6-3	Submission type is U and Surgeon ID is not the same	Surgeon ID cannot be updated	Severe	Record rejected
	6-4	Invalid value	Invalid value	Severe	Record rejected
Surgeon Last Name (H and K)	7-1	Surgeon last name not found in database	Value not found in database	Severe	Record rejected
	7-2	Field is blank	Missing value	Severe	Record rejected
	7-3	Surgeon last name and surgeon ID do not match	Surgeon last name and surgeon ID do not match	Severe	Record rejected
	7-4	Invalid value	Invalid value	Severe	Record rejected
Patient First Name	8-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	8-2	Field length is outside range (<2 or >25 characters)	Out of range	Severe	Record rejected
	8-3	Invalid value	Invalid value	Severe	Record rejected
	8-4	Submission type is U and patient information does not match database	Record type is U but patient values do not match database	Severe	Record rejected
Patient Last Name	9-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	9-2	Field length is outside range (<2 or >25 characters)	Out of range	Severe	Record rejected
	9-3	Invalid value	Invalid value	Severe	Record rejected
	9-4	Submission type is U and patient information does not match database	Record type is U but patient values do not match database	Severe	Record rejected
Health Card Issuing	10-1	Code is invalid	Invalid value	Severe	Record rejected
Authority Code	10-2	Field is blank	Missing value	Severe	Record rejected
(H and K)	10-3	Submission type is U and patient information does not match database	Record type is U but patient values do not match database	Severe	Record rejected

Data element name	Error number	Error condition	Error message	Error type	System action
Health Card Number (H and K)	11-1	Field is blank and Health Card Issuing Authority Code ≠ N/A	Missing value	Severe	Record rejected
	11-2	Field contains more than 12 characters	Out of range	Severe	Record rejected
	11-3	Value not valid according to Province Issuing Health Card rules	Invalid combination	Severe	Record rejected
	11-4	Health Card Issuing Authority Code = N/A and field is populated	Invalid combination	Severe	Record rejected
	11-5	Submission type is U and patient information does not match database	Record type is U but patient values do not match database	Severe	Record rejected
	11-6	Invalid value	Invalid value	Severe	Record rejected
Patient Birth Date	12-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	12-2	Date format is invalid (month and day combination is not valid)	Invalid date	Severe	Record rejected
	12-3	Patient is too old/young	Invalid value — out of range	Severe	Record rejected
	12-4	Submission type is U and patient information does not match database	Record type is U but patient values do not match database	Severe	Record rejected
	12-5	Invalid value	Invalid value	Severe	Record rejected
Gender (H and K)	13-1	Field is blank	Missing value	Severe	Record rejected
	13-2	Invalid character	Invalid value	Severe	Record rejected
	13-3	Submission type is U and patient information does not match database	Record type is U but patient values do not match database	Severe	Record rejected
Patient Postal Code	14-1	Field <3 characters	Out of range	Severe	Record rejected
(H and K)	14-2	Field is blank	Missing value	Severe	Record rejected
	14-3	Format for postal code is incorrect	Invalid value	Severe	Record rejected
	14-4	Invalid value	Invalid value	Severe	Record rejected
	14-5	Field has 3, 4 or 5 characters	Postal code is incomplete	Non-severe	None
	14-6	Postal code is Z9Z9Z9	Postal code does not match province	Non-severe	None

Data element name	Error number	Error condition	Error message	Error type	System action
Hospital Institution	15-1	Field is blank	Missing value	Severe	Record rejected
Number (H and K)	15-2	Hospital Institution Number is not found in the database	Value not found in database	Severe	Record rejected
	15-3	Starting digit for facility does not belong to the province (Quebec excluded from validation)	The facility number does not belong to the selected province	Severe	Record rejected
	15-4	Invalid value	Invalid value	Severe	Record rejected
Chart Number	16-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	16-2	Length is less than 4 or greater than 12	Out of range	Severe	Record rejected
	16-3	Invalid value	Invalid value	Severe	Record rejected
	16-4	Value matches Health Card Number (field 11)	Submitted value must not match the submitted Health Card Number	Severe	Record rejected
Surgery Date	17-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	17-2	Surgery date is not within the corresponding fiscal year of surgery	Surgery date must be within the Fiscal Year of Surgery	Severe	Record rejected
	17-3	Invalid date	Invalid value	Severe	Record rejected
Side (Location)	18-1	Field is blank	Missing value	Severe	Record rejected
(H and K)	18-2	Invalid value	Invalid value	Severe	Record rejected
Type of	19-1	Field is blank	Missing value	Severe	Record rejected
Replacement (H and K)	19-2	Invalid value	Invalid value	Severe	Record rejected
Type of Primary Procedure (H and K)	20-1	Type of Replacement is 1 (primary) and this field is blank	Missing value	Severe	Record rejected
	20-2	Type of Replacement is 2 (revision) and this field is populated	Type of primary procedure is not applicable for revisions	Severe	Record rejected
	20-3	Record Type is K and Type of Primary Procedure not in 1, 2, 3, 4, 5 or OTH	Invalid value	Severe	Record rejected

Data element name	Error number	Error condition	Error message	Error type	System action
Type of Primary Procedure (H and K) (continued)	20-4	Record Type is H and Type of Primary Procedure not in 6, 7, 8, 9 or OTH	Invalid value	Severe	Record rejected
	20-5	Type of Primary Procedure is 1, 2, 3, 4 or 5 and femoral component sticker information is missing	Femoral component sticker information is missing	Severe	Record rejected
	20-6	Type of Primary Procedure is 1, 2, 3 or 4 and tibial component sticker information is missing	Tibial component sticker information is missing	Severe	Record rejected
	20-7	Type of Primary Procedure is 1 or 5 and patellar component sticker information is missing	Patellar component sticker information is missing	Severe	Record rejected
	20-8	Type of Primary Procedure is 2, 3 or 4 and any patellar component stickers are present	Patellar component sticker information must be blank for this type of primary procedure	Severe	Record rejected
	20-9	Type of Primary Procedure is 5 and any tibial component stickers are present	Tibial component sticker information must be blank for this type of primary procedure	Severe	Record rejected
	20-10	Type of Primary Procedure is 5 and any tibial insert stickers are present	Tibial insert sticker information must be blank for this type of primary procedure	Severe	Record rejected
	20-11	Type of Primary Procedure is 6, 8 or 9 and femoral component sticker information is missing	Femoral component sticker information is missing	Severe	Record rejected
	20-12	Type of Primary Procedure is 6, 7 or 9 and femoral head sticker information is missing	Femoral head sticker information is missing	Severe	Record rejected
	20-13	Type of Primary Procedure is 6 and acetabular component sticker information is missing	Acetabular component sticker information is missing	Severe	Record rejected
	20-14	Type of Primary Procedure is 7 and any femoral component stickers are present	Femoral component sticker information must be blank for this type of primary procedure	Severe	Record rejected

Data element name	Error number	Error condition	Error message	Error type	System action
Type of Primary Procedure (H and K) (continued)	20-15	Type of Primary Procedure is 7, 8 or 9 and any acetabular insert/liner stickers are present	Acetabular insert/liner sticker information must be blank for this type of primary procedure	Severe	Record rejected
	20-16	Type of Primary Procedure is 8 or 9 and any acetabular component stickers are present	Acetabular component sticker information must be blank for this type of primary procedure	Severe	Record rejected
Diagnosis Grouping (primary procedures only) (H and K)	21-1	Record Type is K and Type of Replacement is equal to 1 and this field does not have a valid value from the list of valid values	Invalid value	Severe	Record rejected
	21-2	Record Type is H and Type of Replacement is equal to 1 and this field does not have a valid value from the list of valid values	Invalid value	Severe	Record rejected
	21-3	Type of Replacement is 1 and this field is blank	Missing value	Severe	Record rejected
	21-4	Type of Replacement is 2 and this field is populated	Invalid combination	Severe	Record rejected
	21-5	The field contains an invalid value	Invalid value	Severe	Record rejected
Reason for Revision (revision procedures only) (H and K)	22-1	Record Type is K and Type of Replacement is equal to 2 and this field does not have a valid value from the list of valid values	Invalid value	Severe	Record rejected
	22-2	Record Type is H and Type of Replacement is equal to 2 and this field does not have a valid value from the list of valid values	Invalid value	Severe	Record rejected
	22-3	Type of Replacement is 2 and this field is blank	Missing value	Severe	Record rejected
	22-4	Type of Replacement is 1 and this field is populated	Invalid combination	Severe	Record rejected
	22-5	The field contains an invalid value	Invalid value	Severe	Record rejected
	A	If no component (any) OR cement has been completed	At least one component or cement must be completed	Severe	Record rejected

Femoral component sticker information

Femoral Component — Manufacturer (H and K)

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	В	Stickers are not completed in sequential order	Femoral component stickers must be completed in sequential order	Severe	Record rejected
Femoral Component — Manufacturer (H and K)	23-1	The value in this field is not found in the manufacturer table	Value not found in database	Severe	Record rejected
	23-2	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Femoral Component —	24-1	Field contains invalid value	Invalid value	Severe	Record rejected
Manufacturer (Other)	24-2	Length of field exceeded	Out of range	Severe	Record rejected
(H and K)	24-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	24-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Femoral Component —	25-1	Field contains invalid value	Invalid value	Severe	Record rejected
Product Number	25-2	Length of field exceeded	Out of range	Severe	Record rejected
(H and K)	25-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Femoral Component —	26-1	Field contains invalid value	Invalid value	Severe	Record rejected
Lot Number (H and K)	26-2	Length of field exceeded	Out of range	Severe	Record rejected
	26-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Femoral head sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	С	Stickers are not completed in sequential order	Femoral head stickers must be completed in sequential order	Severe	Record rejected
Femoral Head — Manufacturer (H)	35-1	Manufacturer codes for femoral head and femoral component (hip) are not the same (first stickers only)	Manufacturer for femoral component and femoral head does not match	Non-severe	None
	35-2	Manufacturer code does not exist in the manufacturer table	Value not found in database	Severe	Record rejected
	35-3	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Femoral Head —	36-1	Field contains invalid value	Invalid value	Severe	Record rejected
Manufacturer (Other) (H)	36-2	Length of field exceeded	Out of range	Severe	Record rejected
	36-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	36-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Femoral Head —	37-1	Field contains invalid value	Invalid value	Severe	Record rejected
Product Number (H)	37-2	Length of field exceeded	Out of range	Severe	Record rejected
	37-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Femoral Head — Lot Number (H)	38-1	Field contains invalid value	Invalid value	Severe	Record rejected
	38-2	Length of field exceeded	Out of range	Severe	Record rejected
	38-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Acetabular component sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	D	Stickers are not completed in sequential order	Acetabular component stickers must be completed in sequential order	Severe	Record rejected
Acetabular Component — Manufacturer (H)	47-1	Manufacturer code does not exist in the manufacturer table	Value not found in database	Severe	Record rejected
	47-2	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Acetabular	48-1	Field contains invalid value	Invalid value	Severe	Record rejected
Component —	48-2	Length of field exceeded	Out of range	Severe	Record rejected
Manufacturer (Other) (H)	48-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	48-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Acetabular	49-1	Field contains invalid value	Invalid value	Severe	Record rejected
Component —	49-2	Length of field exceeded	Out of range	Severe	Record rejected
Product Number (H)	49-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Acetabular Component — Lot Number (H)	50-1	Field contains invalid value	Invalid value	Severe	Record rejected
	50-2	Length of field exceeded	Out of range	Severe	Record rejected
	50-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Acetabular insert/liner sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	Е	Stickers are not completed in sequential order	Acetabular insert/liner stickers must be completed in sequential order	Severe	Record rejected
Acetabular Insert/Liner — Manufacturer (H)	59-1	Manufacturer codes for acetabular component and insert/liner are not the same (first stickers only)	Manufacturer for acetabular component and insert/liner does not match	Non-severe	None
	59-2	Manufacturer code does not exist in the manufacturer table	Value not found in database	Severe	Record rejected
	59-3	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Acetabular Insert/	60-1	Field contains invalid value	Invalid value	Severe	Record rejected
Liner — Manufacturer	60-2	Length of field exceeded	Out of range	Severe	Record rejected
(Other) (H)	60-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	60-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Acetabular	61-1	Length of field exceeded	Out of range	Severe	Record rejected
Insert/Liner —	61-2	Field contains invalid value	Invalid value	Severe	Record rejected
Product Number (H)	61-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Acetabular Insert/Liner — Lot Number (H)	62-1	Length of field exceeded	Out of range	Severe	Record rejected
	62-2	Field contains invalid value	Invalid value	Severe	Record rejected
	62-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Tibial component sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	F	Stickers are not completed in sequential order	Tibial component stickers must be completed in sequential order	Severe	Record rejected
Tibial Component — Manufacturer (K)	35-1	Manufacturer code not found in the manufacturer table	Value not found in database	Severe	Record rejected
	35-2	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Tibial Component —	36-1	Field contains invalid value	Invalid value	Severe	Record rejected
Manufacturer (Other) (K)	36-2	Length of field exceeded	Out of range	Severe	Record rejected
	36-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	36-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Tibial Component —	37-1	Length of field exceeded	Out of range	Severe	Record rejected
Product Number (K)	37-2	Field contains invalid value	Invalid value	Severe	Record rejected
	37-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Tibial Component — Lot Number (K)	38-1	Length of field exceeded	Out of range	Severe	Record rejected
	38-2	Field contains invalid value	Invalid value	Severe	Record rejected
	38-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Tibial insert sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	G	Stickers are not completed in sequential order	Tibial insert stickers must be completed in sequential order	Severe	Record rejected
Tibial Insert — Manufacturer (K)	47-1	Manufacturer codes for tibial component and tibial insert are not the same (first stickers only)	Manufacturer for tibial insert and tibial component does not match	Non-severe	None
	47-2	Manufacturer code is not found in the manufacturer table	Value not found in database	Severe	Record rejected
	47-3	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Tibial Insert —	48-1	Field contains invalid value	Invalid value	Severe	Record rejected
Manufacturer	48-2	Length of field exceeded	Out of range	Severe	Record rejected
(Other) (K)	48-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	48-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Tibial Insert —	49-1	Length of field exceeded	Out of range	Severe	Record rejected
Product Number (K)	49-2	Field contains invalid value	Invalid value	Severe	Record rejected
	49-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Tibial Insert — Lot Number (K)	50-1	Length of field exceeded	Out of range	Severe	Record rejected
	50-2	Field contains invalid value	Invalid value	Severe	Record rejected
	50-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Patellar component sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	Н	Stickers are not completed in sequential order	Patellar component stickers must be completed in sequential order	Severe	Record rejected
Patellar Component —	59-1	Manufacturer not found in database	Value not found in database	Severe	Record rejected
Manufacturer (K)	59-2	For each sticker present, manufacturer is missing	Missing value	Severe	Record rejected
Patellar Component —	60-1	Field contains invalid value	Invalid value	Severe	Record rejected
Manufacturer	60-2	Length of field exceeded	Out of range	Severe	Record rejected
(Other) (K)	60-3	Option OTH is selected and details are missing	Manufacturer is "Other" and details are missing	Severe	Record rejected
	60-4	Manufacturer not OTH, but Manufacturer (Other) populated	Manufacturer (Other) must be blank if "Other" is not selected	Severe	Record rejected
Patellar Component —	61-1	Field contains invalid value	Invalid value	Severe	Record rejected
Product Number (K)	61-2	Length of field exceeded	Out of range	Severe	Record rejected
	61-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Patellar Component — Lot Number (K)	62-1	Field contains invalid value	Invalid value	Severe	Record rejected
	62-2	Length of field exceeded	Out of range	Severe	Record rejected
	62-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Cement sticker information

Data element name	Error number	Error condition	Error message	Error type	System action
Sticker Information	I	Stickers are not completed in sequential order	Cement stickers must be completed in sequential order	Severe	Record rejected
Cement Details — Name (H and K)	71-1	Cement code does not exist in the cement table	Value not found in database	Severe	Record rejected
	71-2	For each sticker present, name is missing	Missing value	Severe	Record rejected
Cement Details —	72-1	Field contains invalid value	Invalid value	Severe	Record rejected
Name (Other)	72-2	Length of field exceeded	Out of range	Severe	Record rejected
(H and K)	72-3	Option OTH is selected and details are missing	Cement name is "Other" and details are missing	Severe	Record rejected
	72-4	Cement not OTH, but Cement (Other) populated	Cement name (Other) must be blank if "Other" is not selected	Severe	Record rejected
Cement Details —	73-1	Field contains invalid value	Invalid value	Severe	Record rejected
Product Number	73-2	Length of field exceeded	Out of range	Severe	Record rejected
(H and K)	73-3	For each sticker present, product number is missing	Missing value	Severe	Record rejected
Cement Details — Lot Number (H and K)	74-1	Field contains invalid value	Invalid value	Severe	Record rejected
	74-2	Length of field exceeded	Out of range	Severe	Record rejected
	74-3	For each sticker present, lot number is missing	Missing value	Severe	Record rejected

Appendix F: MOD 10 calculation

MOD 10 calculation

Add together these values:

- Rightmost digit of HCN (excluding the check digit) times 2
- Next rightmost digit of HCN (excluding the check digit) times 1
- · Next rightmost digit of HCN (excluding the check digit) times 2
- Next rightmost digit of HCN (excluding the check digit) times 1
- Next rightmost digit of HCN (excluding the check digit) times 2
- Next rightmost digit of HCN (excluding the check digit) times 1
- · Next rightmost digit of HCN (excluding the check digit) times 2
- · Next rightmost digit of HCN (excluding the check digit) times 1
- · Next rightmost digit of HCN (excluding the check digit) times 2
- · And so on until all digits are accounted for

Where the result of the multiplication is more than one digit, add the digits together.

Add the results of each multiplication together.

Divide the total by 10, giving a remainder.

The check digit of the HCN must = 10 -the remainder.



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