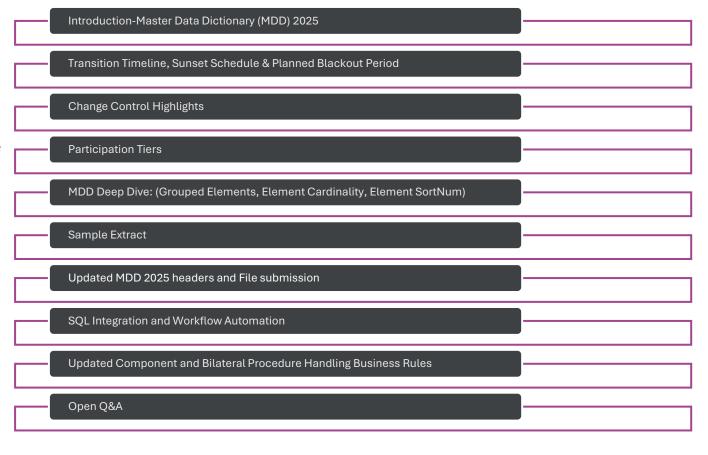
MASTER DATA DICTIONARY (MDD) OFFICE HOUR JUNE 27, 2025 (12PM CST)

AGENDA

- Please add your questions to the Q&A on Zoom.
- Our team will answer your questions while they arise or at the end of the webinar.





THE MASTER DATA DICTIONARY (MDD)



Single resource for MsTR & AJRR modules, layouts, data values, and descriptions replacing their previous data specification and dictionary files.



Replaces multiple Excel documents with a single book with a standardized format across registries.



Facilitates uniformity, accuracy, and scalability for data submission and reporting.



Includes updated data specifications for the Modern Data Registry.



MDD LAUNCH ROADMAP/SUNSET CYCLE

Timeline	
Spring 2025	AJRR & MsTR MDD launch.
Summer 2025	Sites build extracts using MDD. Old specs will be supported.
Fall 2025	2 - week RI® downtime for cutover AJRR & MsTR begin MDD submissions Previous 3 AJRR/MsTR spec versions still supported
Fall 2026- Cutoff (Sunset)	Old AJRR & MsTR specs sunset MDD required for AJRR & MsTR
Winter 2026	ASR, FTR, SER MDD Launches
Summer 2026	ASR, FTR, SER MDD data ingestion starts



THE POWER OF REGISTRY DATA. AAOS REGISTRIES

Upcoming Downtime for RegistryInsights®

In early fall 2025, RegistryInsights® access will be unavailable and file processing will stop for two weeks for all registries. Please plan accordingly.

During this time, the AAOS American Joint Replacement Registry and the AAOS Musculoskeletal Tumor Registry will cutover to a new data ingestion platform that will accept data from the Master Data Dictionary (MDD). The MDD streamlines data management and enhances accuracy by consolidating the new 2025 data dictionaries and specifications for all modules into a common schema.

Early Fall 2025- Planned Blackout Period

What's Impacted:

- •RegistryInsights® access
- File processing
- •PRO Portal (kiosk mode and email links)
 - •Collect assessments on paper during the blackout and manually enter them in the PRO Portal after it reopens
 - •You may also submit PROMS data during the blackout via a PROMs Excel file
 - •After the blackout ends, you can resume normal use of the PRO Portal with no issues

Exact blackout dates to be announced soon

CHANGE CONTROL

Please consult the **AJRR and MsTR Data Spec Layouts Changelog Report** available in Registry Insights (under Tools & Resources) for a detailed record of updates made during the transition from the pre-2025 specifications to the MDD 2025 specifications — including all changes; updates, additions, and deletions.

Change Control	AJRR	MsTR
New Module (MsTR)	-	Metastatic Bone Disease (MBD)
New Layouts (MsTR)	-	Alternative Entry Pathway (AEP) and Procedure Layouts
Required Status Updated	32 Data elements	200 Data elements
New or Updated Data Element	41 Data elements	109 Data elements
Removed Data Element from MDD 2025	15 Data elements	50 Data elements



PARTICIPATION TIERS (AJRR)

Participation Tier	Standard Participation (Required)	Enhanced Participation (Recommended)
Data Set Submitted	Minimum Data Set (MDS)	Enhanced Data Set (EDS)
Includes	- Patient demographics- Procedure details- Basic outcomes	Everything in MDS plus:Follow-up dataComplicationsPROs
Data Sources	Primarily EHR-abstracted elements	May include provider-entered forms
Purpose	Required for registry participation and foundational benchmarking	Supports quality programs (e.g., CMS IQR, BCBS), advanced analytics, and richer reporting
Note	Does not include follow-up data or PROMs	Helps meet payer and quality program requirements



PARTICIPATION TIERS (MSTR)

Participation Tier	Alternative Entry Pathway (AEP) – Streamlined Option	Full Participation – Complete Dataset
Data Entry Method	Provider-entered short forms via centralized REDCap	Data pulled from EHR and provider-entered SmartForms
Best For	Sites without full EHR or SmartForm workflows	Sites able to support full integration and workflow buildout
Includes	Select key data points (e.g., diagnosis, procedure type, margins)	Full dataset: follow-up, recurrence, metastasis, treatment, outcomes
Purpose	Temporary, low-burden path to contribute essential data	Supports longitudinal tracking and comprehensive analysis
Note	Limited scope, fewer data elements	Enables quality reporting, richer dashboards, and long-term insights



ELEMENT: GROUP FIELD NAME & SORTNUM

1. group_field_name - tells you which data elements

belong together as a unit.



Example:

- ComponentName^Mfg^Cat^Lot means these 4 fields are grouped together in a specific order.
- COM^POA- means there 2 fields are grouped together in a specific order

Instead of entering them in different columns, you will now report those values in one column, using a caret (^) to separate each item in the group.

If you have more than one group to report-like two different devices or codes-you separate each full group using a pipe (I)

<u> </u>	UI
ComponentName^Mfg^Cat^Lot	CoM^POA
Genesis^Test Drug Company 1^678787979^88796784	1^0SBC0ZX
Genesis^Test Drug Company 1^782782782^87878787	1^0SRB049
Genesis^Test Drug Company 2^333276769^78798989 Genesis^Test Drug Company^782782788^22898989	1^0SRR01A
Persona^Test Drug Company 3^989787879^98989782 Genesis^Test Drug Company^782782788^22898989	U^0SBC0ZX

Example of 2 grouped devices:

DeviceA^devcorp^A121^2788 | DeviceB^McKesson^m6765^7001



THE POWER OF REGISTRY DATA.

AAOS REGISTRIES

2. sortnum- The correct order of each value is defined by element_sortnum (correct sequencing)

For example, 0 - ComponentName, 1 - Mfg, 2 - Cat, and 3 - Lot. Please follow this sequence to avoid any rejections

EXAMPLE

Position	0	1	2	3
Group	ComponentName	Mfg	Cat	Lot
1	Device A	devcorp	A121	2788
2	Device B	McKessonCorp	m6765	7001

The **group_field_name** column tells you which elements are grouped together (device name, manufacturer, catalog number, and lot number). ComponentName \rightarrow Mfg \rightarrow Cat \rightarrow Lot

- ightharpoonup The values **must follow this order**: ComponentName ightharpoonup Mfg ightharpoonup Cat ightharpoonup Lot.
- ightharpoonup If you have more than one group, separate them using a pipe symbol \rightarrow |
- ➤ Within each group, separate the values using a caret symbol → ^

Example format:

- •Device A^devcorp^A121^2788 | Device B^McKessonCorp^m6765^7001
- •Dx-Z3A.20|171.30|Z89.52

***Grouped elements

Things in a group hold hands with ^. Different groups stand next to each other with | and numbers help everyone stay in line!

ELEMENT: CARDINALITY

3. elementCardinality- tells you if the field or group can repeat multiple times. If it says **"many"**, it means you can include as many groups as needed in that same cell, using that ^ and | format.

Before

AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	ВС	BD	BE
PX_1	PX_2	PX_3	PX_4	PX_5	PX_6	PX_7	PX_8	PX_9	PX_10	DX_1	DX_2	DX_3	DX_4	DX_5	DX_6	DX_7	DX_8	DX_9	DX_10

After

PX	DX
0.81	OSRVOJ9
27125 0SRB049	27125 27125
00.75	27258

Example:

Z3A.20 | 71.30 | Z89.52

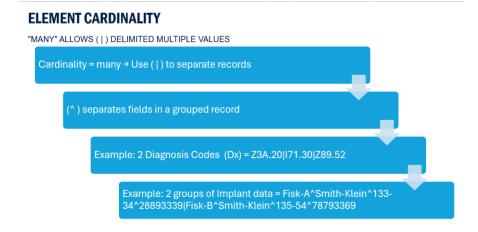
DeviceA^devcorp^A121^2788 | DeviceB^McKesson^m6765^7001



THE POWER OF REGISTRY DATA.

AAOS REGISTRIES

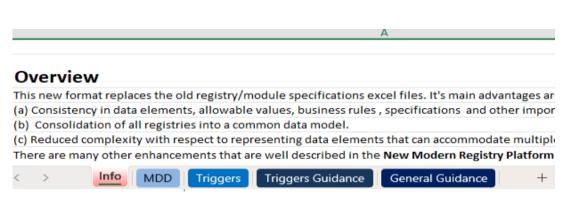


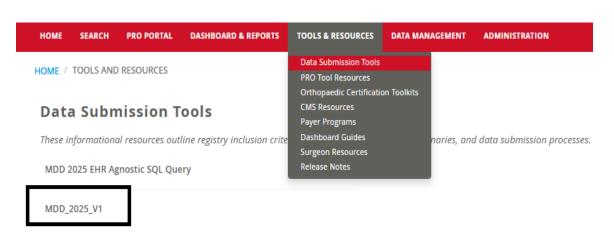


IF ELEMENTCARDINALITY = "MANY", YOU'RE ALLOWED TO REPEAT THE FULL GROUP IN THE SAME FIELD.

MASTER DATA DICTIONARY: MDD_2025_V1.XLSX THIS NEW FILE CONTAINS FIVE TABS AS DESCRIBED BELOW.

- Info: Registry summaries, versioning
- MDD: Elements, values, business rules
- Triggers: ICD, CPT codes
- Triggers Guidance: Notes on usage
- General Guidance: Submission docs and support links





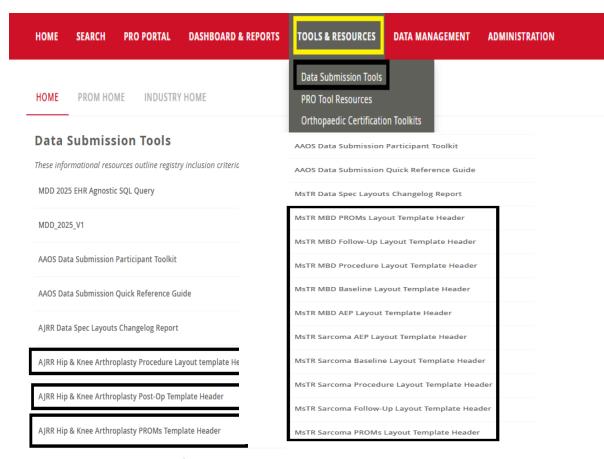
SAMPLE EXTRACT

AI	AJ	AK	AL	AM	AN
ProcedureDate	ADMSNDT	DSCHRGDT	DSCHDISPCODE	PX	DX
5/13/2020	5/13/2020	5/15/2020	3	0.81	OSRV0J9
3/28/2020	3/25/2020	4/4/2020	8	OSP909Z 81.53	0SP909Z 0SP909Z

BE	BF	BG	BI	ВЈ
AnesthesiaType	PeriarticularInjection	ComponentName^Mfg^Cat^Lot	CoM^POA	Trainee
1	2	Genesis^Test Drug Company 1^678787979^88796784	1^0SBC0ZX	
3	2	Genesis^Test Drug Company^782782788^22898989 Genesis^Test Drug Company^782782788^22898989	U^0SBC0ZX	



UPDATED MDD 2025 HEADERS AND FILE SUBMISSION



FILE SUBMISSION

- **SFTP**: Secure, supports automation/public keys; .csv or .xlsx
- **HTTPS**: Browser upload for restricted systems; .xlsx
- File Naming Convention:

<RegistryAccountID>_<RegistryName>_<Module>_<SubmissionType>_<Version>_<Timestamp.

This format is required for automated processing and validation



THE POWER OF REGISTRY DATA.

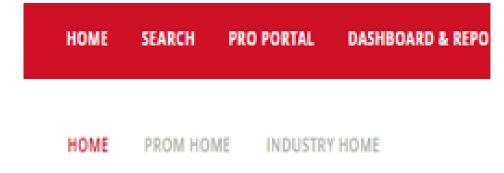
AAOS REGISTRIES

TECHNICAL IMPLEMENTATION

EHR Agnostic Query- A flexible data query that works across **any EHR system**, regardless of vendor or platform.

- Works with automated processes: Can be used in ETL tools to prepare data
- SQL-compatible: You can use SQL queries to check and format your data before submitting
- **Sample SQL provided**: You don't need a specific EHR system; the example works with any source
- **Flexible validation**: Helps automate checks and corrections for each field based on registry rules

*The EHR-agnostic query can be found under Tools & Resources > Data Submission Tools in Registry Insights.



Data Submission Tools

These informational resources outline registry inclusion criteria

MDD 2025 EHR Agnostic SQL Query



THE POWER OF REGISTRY DATA.

AAOS REGISTRIES

UPDATED COMPONENT AND BILATERAL PROCEDURE HANDLING BUSINESS RULES FOR MDD 2025

Goal: Improve consistency, reduce rejections, and align with CMS and HIPAA standards for component and bilateral procedure submissions.

1. Component Data Requirements

- Most procedures must have at least 2 components
- Must include 3 of 4 fields: Component Name, Manufacturer, Catalog Number (Lot Number is optional)
- Allowed exceptions (can submit one component):
 - Hemiarthroplasty
 - Patellofemoral arthroplasty
 - Revision procedures

2. Bilateral Procedures

- > **Submit 2 rows:** one for each side (Right and Left)
- > Use DX_Lat = "bilateral" with CPT modifier (e.g.,
 -50)

or set **DX_Lat = R/L** on each row

ICD-10 code must show laterality (or use DX_Lat field)

3. Bilateral Component Requirements

- Must submit 4 components total (2 per side)
- Both rows must have same Procedure Date & Surgeon NPI
- CPT code modifiers or DX_Lat required for laterality



QUESTIONS?



For questions or assistance, please use the Feedback & Support option within Registry Insights.



You can access all MDD resources under the Tools & Resources section in Registry Insights.