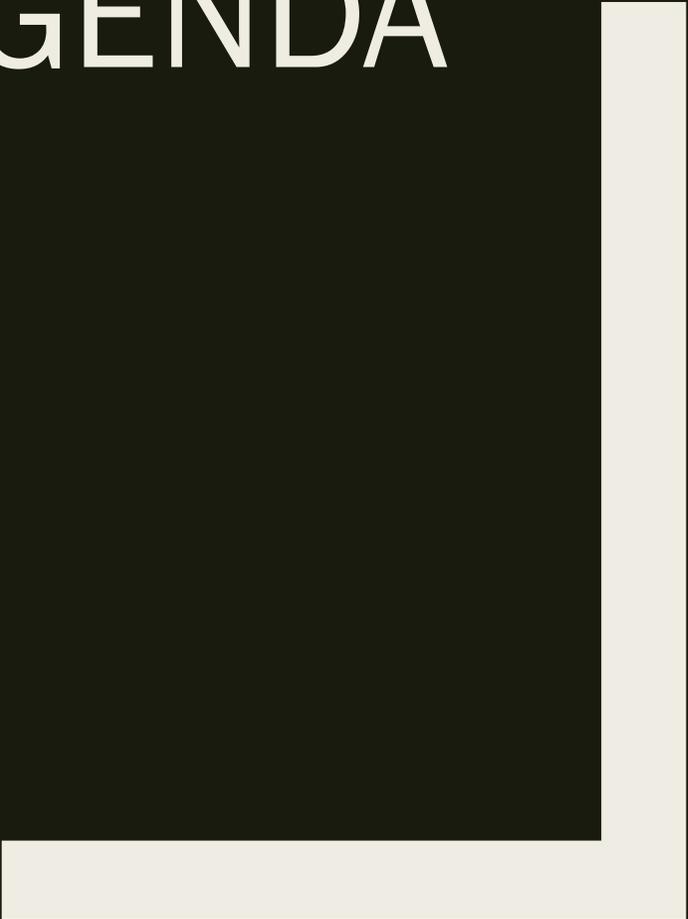
A large, thick black L-shaped graphic is positioned on the left and bottom edges of the slide, framing the central text.

CHSD NEW DATA MANAGER WEBINAR

CHSD Consultants
Leslie Wacker and Chasity Wellnitz

AGENDA



DATA HARVEST ACTIVITIES

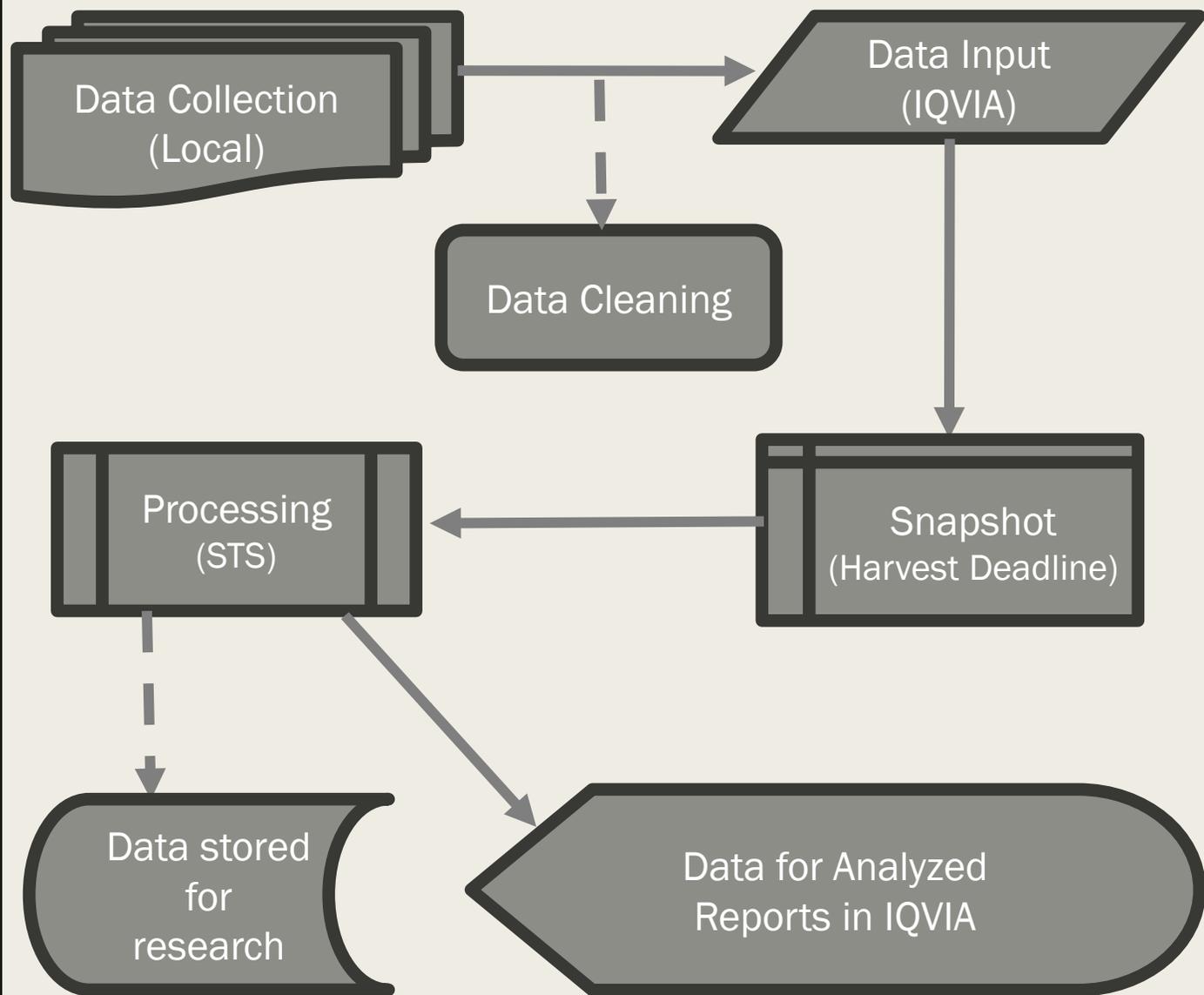
- Data preparation
- Uploading data file
- Utilizing IQVIA tools

What is a "Harvest"?

Harvest refers to the process for submitting data from your site through IQVIA ultimately to STS for analysis and research

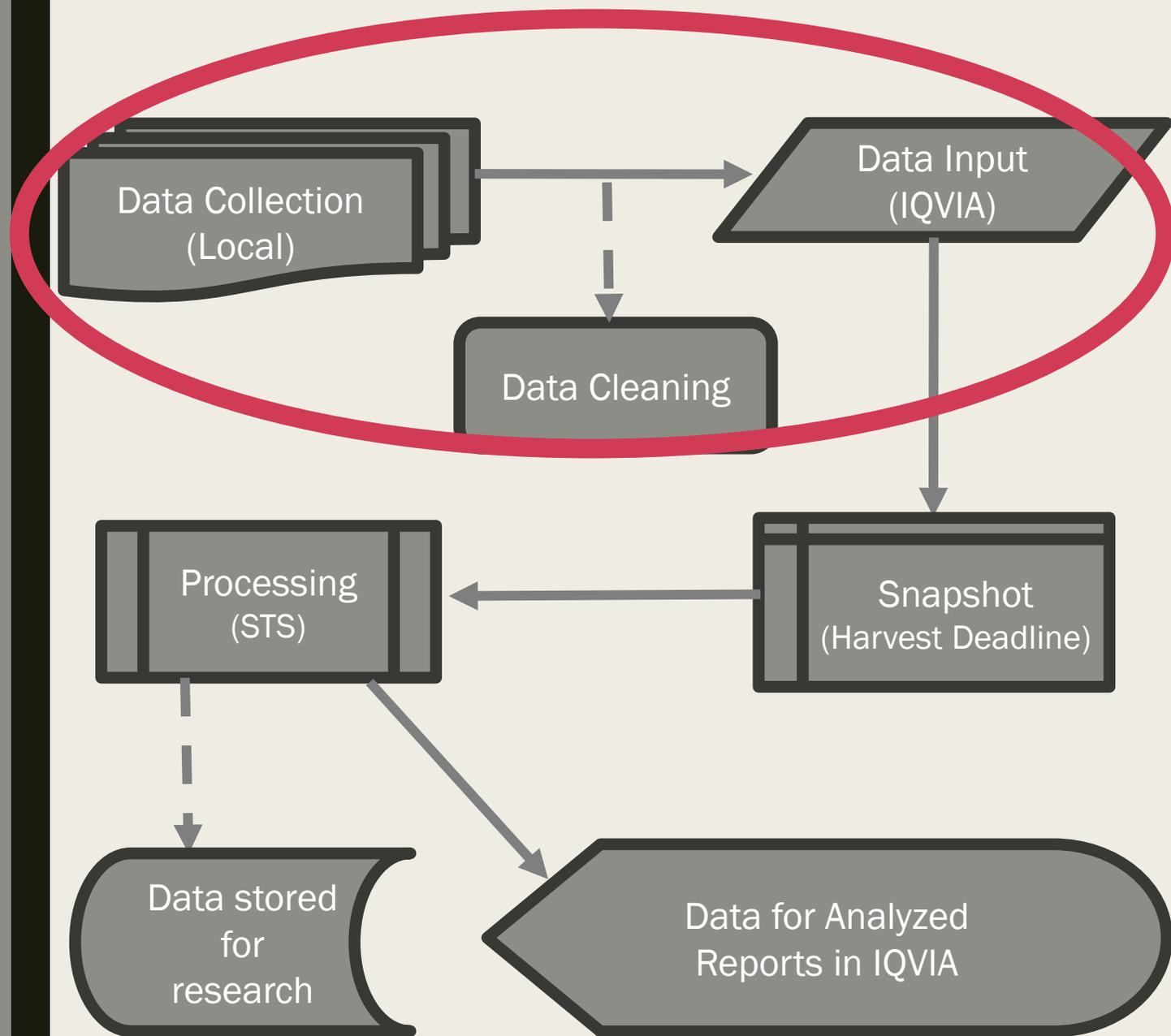
What is a "Harvest"?

Harvest refers to the process for submitting data from your site through IQVIA ultimately to STS for analysis and research



What is a "Harvest"?

Harvest refers to the process for submitting data from your site through IQVIA ultimately to STS for analysis and research



Data Collection -

- Day to day data collection into your vendor software or IQVIA (direct data entry sites)

Data Collection -

- Day to day data collection into your vendor software or IQVIA (direct data entry sites)
- Utilize vendor specific tools for identifying missing or out of range data BEFORE submitting data

Data Collection -

- Day to day data collection into your vendor software or IQVIA (direct data entry sites)
- Utilize vendor specific tools for identifying missing or out of range data BEFORE submitting data
- Submit FAQs related to harvest – note in the comments it is for harvest, if applicable

Vendor Validation Tools



Each software vendor has their own validation tools



All follow software and data specifications



Visible when entering each field ("field level validation")

Vendor Validation Tools



Each software vendor has their own validation tools



All follow software and data specifications



Visible when entering each field ("field level validation")

STS Congenital Heart Surgery Database

Version 6.23.2

Long Name: Preoperative Hematocrit

SeqNo: 825

Short Name: **Hct**

Core: Yes

Section Name: Preoperative Labs/Testing

Harvest: Yes

DBTableName: Operations

Definition: Indicate the pre-operative Hematocrit level (%) at the date and time closest to surgery. Capture only measured hematocrit levels, not calculated values.

Data Source: User

Format: Real

Low Value: 1.00 *High Value:* 99.99 *UsualRangeLow:* 15.00 *UsualRangeHigh:* 55.00

ParentShort Name: PreopLabsAvail

ParentLongName: Preoperative Labs Available

ParentHarvestCodes:

ParentValues: = "Y"

Allowable values

Vendor Validation Tools



Each software vendor has their own validation tools



All follow software and data specifications



Visible when entering each field ("field level validation")

STS Congenital Heart Surgery Database

Version 6.23.2

Long Name: Preoperative Hematocrit

SeqNo: 825

Short Name: **Hct**

Core: Yes

Section Name: Preoperative Labs/Testing

Harvest: Yes

DBTableName: Operations

Definition: Indicate the pre-operative Hematocrit level (%) at the date and time closest to surgery. Capture only measured hematocrit levels, not calculated values.

Data Source: User

Format: Real

Low Value: 1.00 *High Value:* 99.99

UsualRangeLow: 15.00 *UsualRangeHigh:* 55.00

ParentShortName: PreopLabsAvail

ParentLongName: Preoperative Labs Available

ParentHarvestCodes: 1

ParentValues: = "Yes"

Usual values

Vendor Validation Tools



Each software vendor has their own validation tools



All follow software and data specifications



Visible when entering each field ("field level validation")

Long Name: Preoperative Hematocrit

SeqNo:	825
Short Name:	Hct
Database Table Name:	Operations
Data Source:	User
Format:	Real
Definition:	Indicate the pre-operative Hematocrit level (%) at the date and time closest to surgery. Capture only measured hematocrit levels, not calculated values.
Low Value:	1.00
High Value:	99.99
Parent LongName:	Preoperative Labs Available
ParentShortName:	PreopLabsAvail
ParentHarvestCodes:	1
ParentValue:	= "Yes"

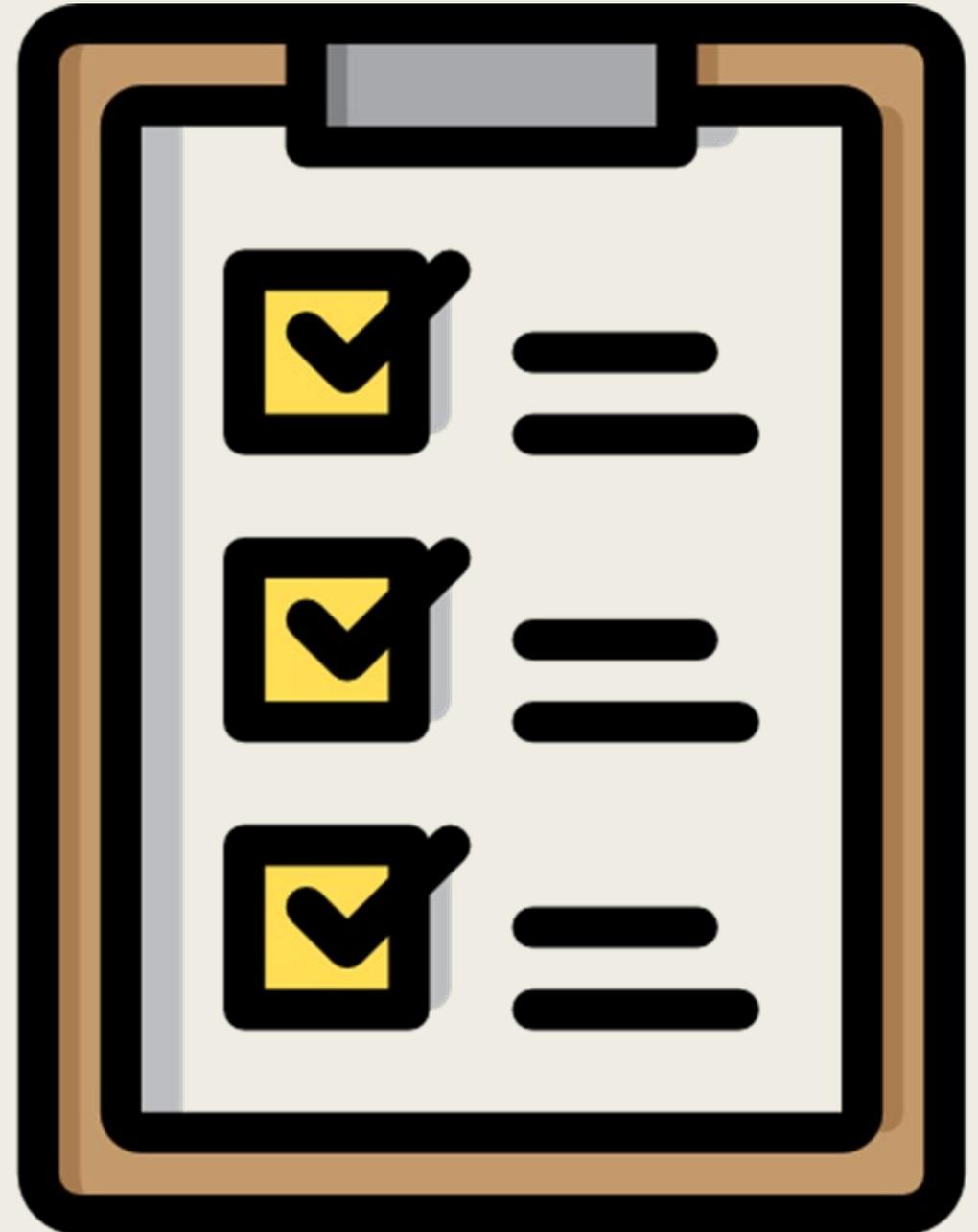
Intent/Clarification:

If preoperative labs available, indicate the hematocrit.

Vendor Validation Tools



Visible after finishing the case/event ("event level validation")



Vendor Validation Tools



"Front-end"

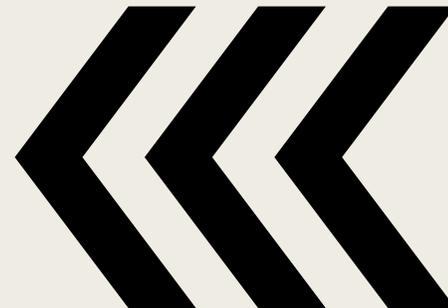
Occur as you're entering data

Vendor Validation Tools



"Front-end"

Occur as you're entering data



"Back-end"

Occur as you create an extract

Create an extract (aka "harvest file" or "dat file")

- How this is done is different in each vendor

Create an extract (aka "harvest file" or "dat file")

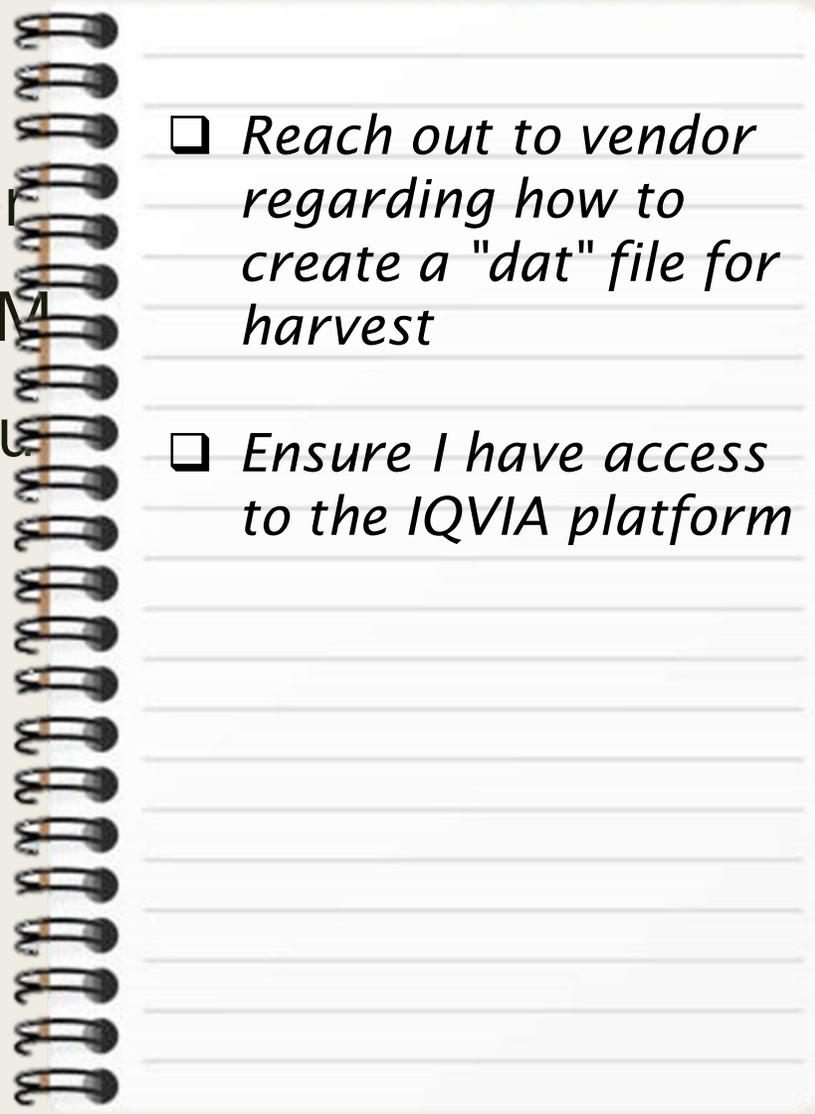
- How this is done is different in each vendor
- A snapshot of what your data is **AT THAT TIME**

Create an extract (aka "harvest file" or "dat file")

- How this is done is different in each vendor
- A snapshot of what your data is AT THAT TIME
- Submit this file to IQVIA using the Upload function

Create an extract (aka "harvest file" or "dat file")

- How this is done is different in each vendor
- A snapshot of what your data is AT THAT TIME
- Submit this file to IQVIA using the Upload function

- 
- A graphic of a spiral-bound notebook with a metal spiral binding on the left side and horizontal lines for writing on the pages. The notebook is positioned vertically on the right side of the slide.
- Reach out to vendor regarding how to create a "dat" file for harvest*
 - Ensure I have access to the IQVIA platform*

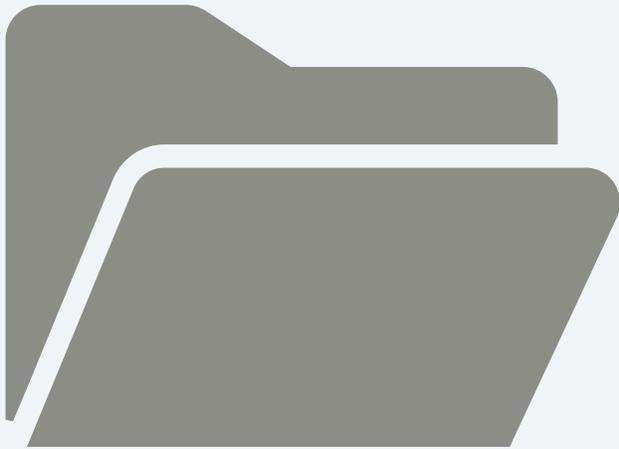
Submit the Harvest file



Submit the Harvest file



STS National Database™
Trusted. Transformed. Real-Time.



Sign in to your account

Username

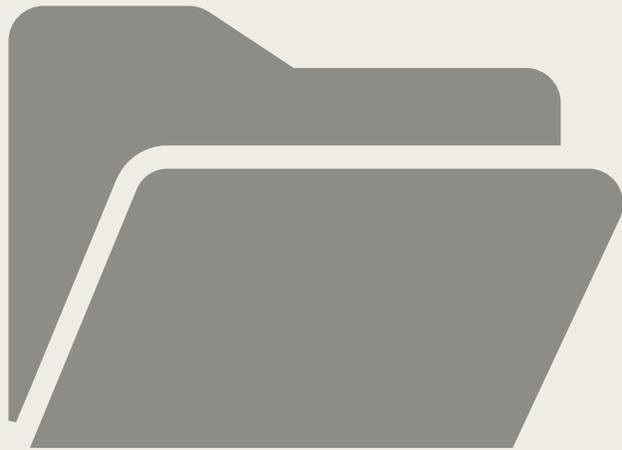
Password

[Forgot password?](#)

[Need help?](#)

[Sign In](#)

Submit the Harvest file



Welcome,
Leslie W

Currently Viewing

Congenital Heart Surgery Database
50065 -- 50065

DASHBOARD

Community Page

PLATFORM

Case Forms

Upload

Form management

Notifications

10

ANALYTICS

Operational Reports

RESOURCES

Library

ACCOUNT

My Account

Log out

Drag and Drop or Browse for file



Upload File



Check Mapping



Format Review



Validate File



Drag and Drop File Here to Upload

-or-

Choose File from Computer

(Max File Size: 50 MB)

Drag and Drop or Browse for file



Upload File



Check Mapping



Format Review



Validate File



Drag and Drop File Here to Upload

-or-

Choose File from Computer

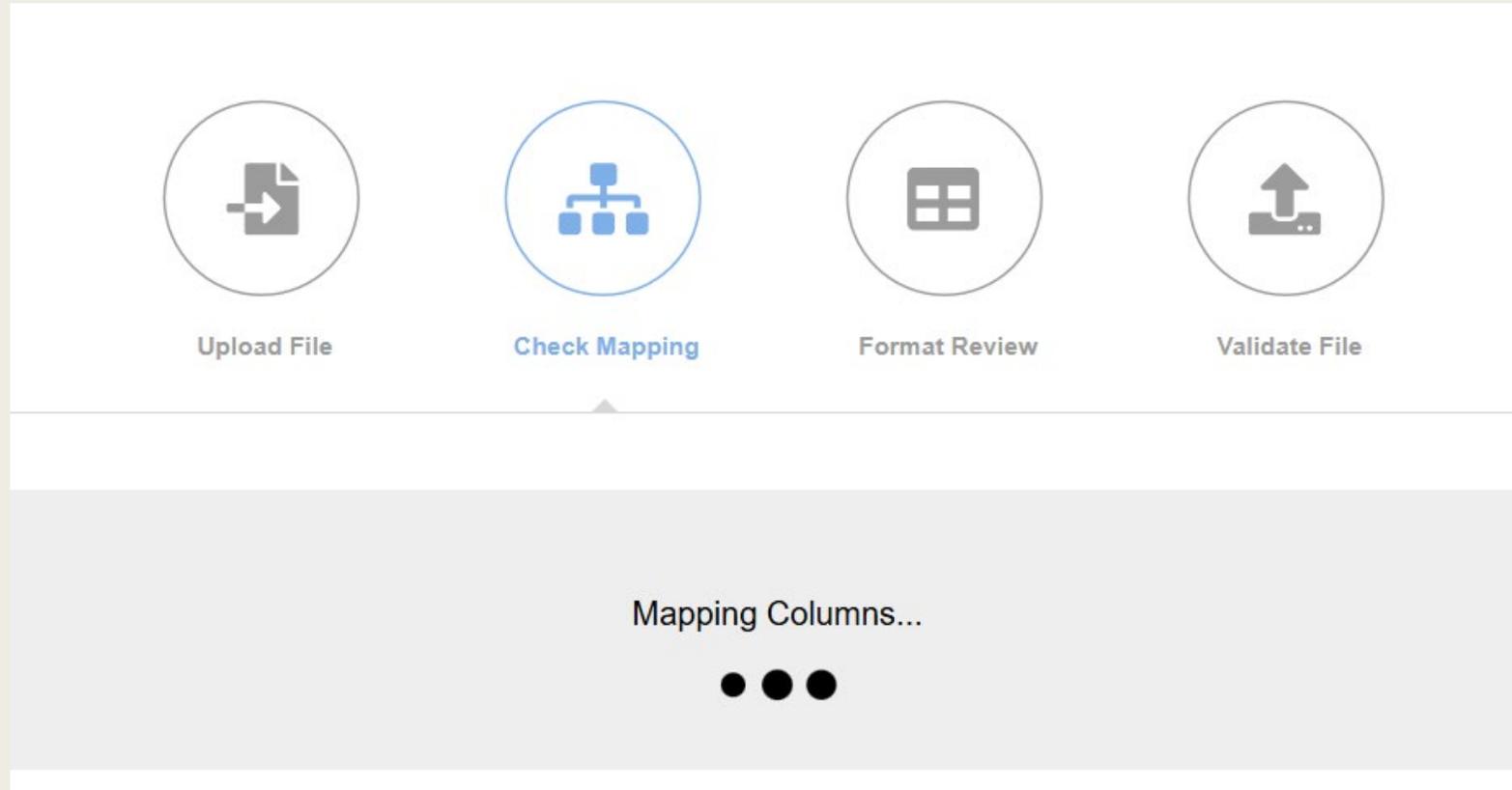
(Max File Size: 50 MB)

Remove File

Upload File

Selected File: CY2021.dat (2.84 MB)

Drag and Drop or Browse for file



Process File



03/04/2025
09:12:50
AM

Case Forms Upload ID: **302878**

Facility

Processing Status: **File Upload Completed**

File Name: **CY2024.dat**

Restricted Uploader User Name: **Wacker Leslie**



274/651

[View Reports](#)

Process File

03/04/2025
09:12:50
AM

Case Forms Upload ID: **302878**
Facility
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Restricted Uploader User Name: **Wacker Leslie**

  
274/651
[View Reports](#)

1. Numerator = how many files were accepted
2. Denominator = how many files there were total

Process File



03/04/2025
09:12:50
AM

Case Forms Upload ID: **302878**
Facility
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Restricted Uploader User Name: **Wacker Leslie**



Make sure your denominator matches what you expected to see

In other words, is this the same number of cases extracted from your software?

Process File



03/04/2025
09:12:50
AM

Case Forms Upload ID: **302878**
Facility
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Restricted Uploader User Name: **Wacker Leslie**



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[View Reports](#)



Critical Errors: Entire patient record
NOT accepted

Process File

03/04/2025
09:12:50
AM

Case Forms Upload ID: **302878**
Facility
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Restricted Uploader User Name: **Wacker Leslie**

24 651
[View Reports](#)

Error: Part of the record NOT accepted

Process File

03/04/2025
09:12:50
AM

 Case Forms Upload ID: **302878**
Facility
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Restricted Uploader User Name: **Wacker Leslie**

  
274/66
[View Reports](#)

Warning: Case accepted, but things to check out

Process File



03/04/2025
09:12:50
AM

Case Forms Upload ID: **302878**
Facility
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Restricted Uploader User Name: **Wacker Leslie**



274/651

[View Reports](#)

ess File



03/04/2023
09:12:50
AM



274/651

[View Reports](#)

DO NOT move on to other reports in IQVIA without checking out these critical errors, errors, and warnings

Data Quality Report (DQR)

Data Quality Report

File Edit Data Visualizations View Tools User

Data Quality Report

Filters

Type to search filters

File Uploader

OPTYPE

- Critical Errors
- Operation Type 1 and 2
- Other

DUPLICATE

- Duplicate
- Non-Duplicate

VALIDATION ALERT	MESSAGE
Failed	File Upload Completed

Validation Alert Summary

Legend: Critical (Red), Error (Yellow), warning (Blue)

Alert Type	Percentage
Critical	68.4%
warning	31.5%

Alerts by Uploaded Records

Select Data From Validation Alert Summary

Records Level Validation

Select Data From Alerts by Uploaded records

Data Quality Report | Critical Summary

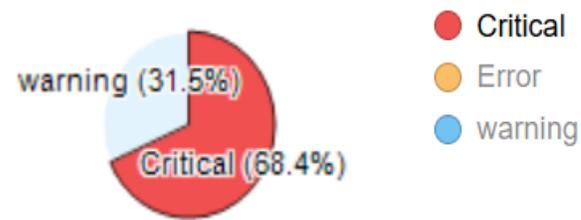
Data Quality Report (DQR)

Data Quality Report

File Based Issue

VALIDATION ALERT	MESSAGE
Failed	File Upload Completed

Validation Alert Summary



Alerts by Uploaded Records

Record ID	Source Patient ID	Critical
442	No Patient ID Available	2
504		1

Records Level Validation

Validation Status	Error Type	Operation ID	Short Name	Message	Source
Critical	Validation error occurred during transform...		syndromemulti	Invalid value supplied for syndromemulti. This record ha...	V126
Critical	Warning/Error occurred while save			Errorjava.lang.IllegalStateException: Expected BEGIN_...	No F
Critical	java lang IllegalStateException: Expected			Errorjava lang IllegalStateException: Expected BEGIN	No F

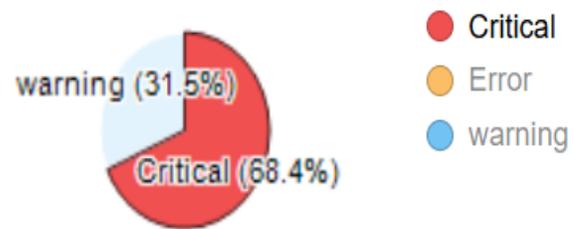
Data Quality Report (DQR)

Data Quality Report

File Based Issue

VALIDATION ALERT	MESSAGE
Failed	File Upload Completed

Validation Alert Summary



Alerts by Uploaded Records

Record ID	Source Patient ID	Critical
442	No Patient ID Available	2
504		1

Records Level Validation

Validation Status	Error Type
Critical	Validation error occurred during transform... Invalid value supplied for syndromemulti. This record has been dropped. Review the data then resubmit the record if necessary.
Critical	Warning/Error occurred while save syndromemulti invalid value supplied for syndromemulti. This record na... V
Critical	Warning/Error occurred while save Error:java.lang.IllegalStateException: Expected BEGIN ... N

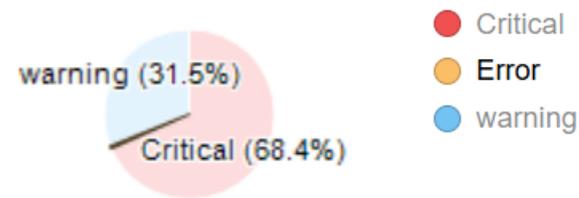
Data Quality Report (DQR)

Data Quality Report

File Based Issue

VALIDATION ALERT	MESSAGE
Failed	File Upload Completed

Validation Alert Summary



Alerts by Uploaded Records

Record ID	Source Patient ID	Error
592		1

Records Level Validation

Validation Status	Error Type	Operation ID	Short Name	Message	Source
Error	ValidationErrors occurred during rcsave		tin	error : QCH4886 Tax Identification Number is required. ...	V34

Data Quality Report (DQR)

File Edit Data Visualizations View Tools User

Data Quality Report

Filters

Type to search filters

File Uploader

OPTYPE

- Critical Errors
- Operation Type 1 and 2
- Other

DUPLICATE

- Duplicate
- Non-Duplicate

File Based Issue

VALIDATION ALERT	MESSAGE
Failed	File Upload Completed

Validation Alert Summary

Legend: Critical (red), Error (orange), warning (blue)

Alerts by Uploaded Records

Record ID	Source Patient ID	warning
623	No Patient ID Available	1
624	No Patient ID Available	1
625	No Patient ID Available	1
626	No Patient ID Available	1

Records Level Validation

Validation Status	Error Type	Operation ID	Short Name	Message	Source
warning	ValidationErrors occurred during rcsave		pasys	warning : QCH0101 The value entered for Hemo Data-P...	V34
warning	ValidationErrors occurred during rcsave		lvedd	warning : QCH0086 The value entered for Hemo Data-L...	V34
warning	ValidationErrors occurred during rcsave		lvedd	warning : QCH0086 The value entered for Hemo Data-L...	V34

Data Quality Report | Critical Summary

Data Quality Report (DQR)

File Based Issue

VALIDATION ALERT	MESSAGE
Failed	File Upload Completed

Validation Alert Summary

warning (31.5%)
Critical (68.4%)

● Critical
● Error
● warning

Records Level Validation

Validation Status	Error Type	Operation ID	Short Name
warning	ValidationErrors occurred during rcsave		pasys
warning	ValidationErrors occurred during rcsave		lvedd
warning	ValidationErrors occurred during rcsave		lvedd

1. Fix all critical errors

2. Fix all errors

3. Double check all warnings

4. Go back to vendor software and re-create a harvest file for the same time period.

5. Submit new file to IQVIA using Upload function.

Re-submit a file for the same time-period



Upload File



Check Mapping



Format Review



Validate File



Drag and Drop File Here to Upload

-or-

Choose File from Computer

(Max File Size: 50 MB)

Process File



03/27/2025
10:33:16
A1

Case Forms Upload ID: **297472**
Facility:
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Abstractor User Name: **W Leslie**



651/651

[View Reports](#)

File accepted!

Process File



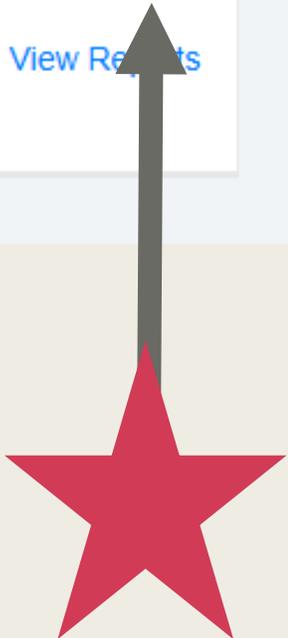
03/05/2025
10:33:16
AM

Case Forms Upload ID: **297472**
Facility:
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Abstractor User Name: **W Leslie**

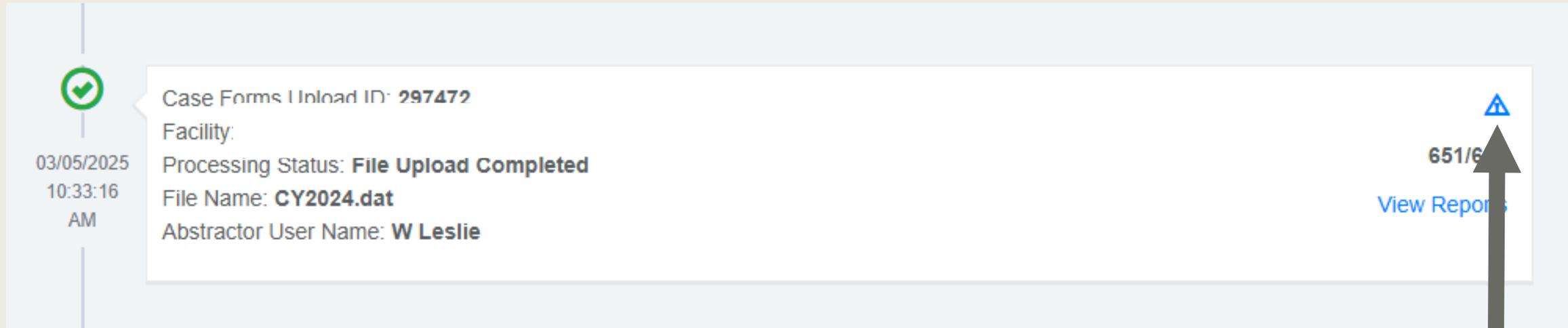


651/651

[View Results](#)



Process File



The screenshot shows a notification card with a green checkmark icon on the left. The text inside the card reads: "Case Forms Upload ID: 297472", "Facility:", "Processing Status: File Upload Completed", "File Name: CY2024.dat", and "Abstractor User Name: W Leslie". To the right of the card, there is a blue warning triangle icon, the text "651/6", and a blue link labeled "View Reports".

03/05/2025
10:33:16
AM

Case Forms Upload ID: **297472**
Facility:
Processing Status: **File Upload Completed**
File Name: **CY2024.dat**
Abstractor User Name: **W Leslie**

651/6
[View Reports](#)

- Only warnings left, peek at warnings to make sure there's nothing unexpected

Check DQR

Data Quality Report

File Based Issue

VALIDATION ALERT	MESSAGE
Passed	File Upload Completed

Validation Alert Summary



warning (100.0%)

● warning

Alerts by Uploaded Records

Record ID	Source Patient ID	warning
1		1
2		1
3		1
4		1
5		1
6		1

Records Level Validation

Validation Status	Error Type	Operation ID	Short Name	Message	Source Patient ID	A
warning	Error occurred during file pre-processing		operationid	Record	has not changed. No updates made.	No Patient ID Available h
warning	Error occurred during file pre-processing		operationid	Record	has not changed. No updates made.	No Patient ID Available h
warning	Error occurred during file pre-processing		operationid	Record	has not changed. No updates made.	No Patient ID Available h
warning	Error occurred during file pre-processing		operationid	Record	has not changed. No updates made.	No Patient ID Available h

Resources



STS National Database™
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Welcome,
Leslie Wacker

Currently Viewing

Congenital Heart Surgery Database
50065 -- 50065

DASHBOARD

Community Page

PLATFORM

Upload

Form Management

Notifications 10

ANALYTICS

Operational Reports

RESOURCES

Library

ACCOUNT

My Account

Log out

Library

National Report Overview, Data Checks, and Opt-Out Form

[CHSD Analyses Overview Updated 12/9/2024](#)

[CHSD Risk Adjusted Report Calculation Resource \(UPDATED 12/13/2024\)](#)

[CHSD Registry Critical Errors/Errors and Warnings List](#)

[End of Harvest Review Checklist](#)

[Missing Variable Report User Guide \(UPDATED 8.5.2022\)](#)

[STS Harvest Opt Out Request Form](#)

Quality Ratings Summary and Multiplier Tables

[Fall 2024 Harvest Composite Quality Ratings Summary](#)

[Spring 2024 CHSD Harvest Composite Quality Ratings Summary](#)

[Fall 2023 Harvest Composite Quality Ratings Summary](#)

[Spring 2023 Harvest Composite Quality Ratings Summary](#)

[Fall 22 CHSD Harvest Composite Quality Ratings Summary](#)

Report Overview Documents

[Analyses Risk Adjusted Report Navigation Overview](#)

[Appendix C: STAT Categories](#)

[Appendix D: Estimated Odds Ratios and 95% CI for Individual Syndromes and Chromosomal Abnormalities](#)

[Appendix E and F: Frequencies of Chromosomal and Non-Cardiac Abnormalities](#)

LET'S RECAP...

Make sure you have access needed:

- IQVIA
- Ability to create "dat" file/harvest file for submission

Use DQR to check critical errors, errors, and warnings

Submit a new file to IQVIA anytime you've changed data in your software

Make sure your volume is what you expect when you submit files

What is Data Clean up?

- Identify missing data
- Validate data for accuracy

*Inaccurate data
is
useless data*

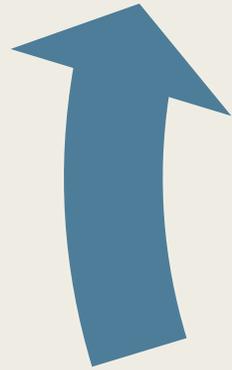
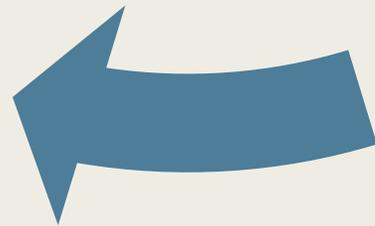
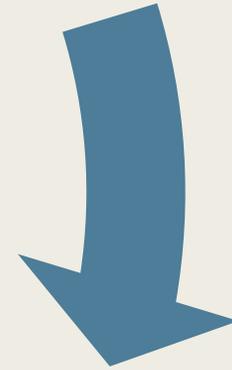
IQVIA
upload

Data clean
up

Harvest

Data clean
up

IQVIA
upload



IQVIA Reports for Harvest

Welcome,
Chasity Wellnitz

Currently Viewing
Congenital Heart Surgery Database

Switch Current View

DASHBOARD

Community Page

PLATFORM

Upload

Form Management

Notifications 9

ANALYTICS

Operational Reports

Operational Reports

CHSD Reports

Missing Variable Report

This report identifies important field-specific data quality issues that affect the completeness of your harvest and data version, surgery year, short name and field name are shown for each issue to help you target and prioritize reported for variables used in reports or risk-adjustment models.

Primary Procedure Mismatch and Mortality Eligibility Summary Report

The Primary Procedure Mismatch report will identify operation records where the primary procedure that was assigned to the Data Warehouse. The Case Eligibility for Inclusion in Mortality Analysis report will provide users with a summary of the data.

Harvest Summary Report

This report will allow users to see the current status of system validations on all active records saved in the database.

CHSD Participant Dashboard Report

This participant dashboard report will display NON-ANALYZED data results for the congenital heart surgery data.

CHSD Risk Adjusted Dashboard Report

The electronic CHSD Risk Adjusted Report includes analyzed harvest data results in place of the previous report to show their risk-adjusted performance against the STS overall for the same time period.

Select Operational Reports



Missing Data

select Missing Variable
Report



enter date range / age



select all operations or
Index only

Operational Reports

CHSD Reports

Missing Variable Report

This report identifies important field-specific data quality issues that affect the completeness of your data in the National Report. The data version, surgery year, short name and field name are shown for each issue to facilitate clean-up activity. Information on missing data is only reported for variables used in reports or risk-adjusted reports.

Primary Procedure Mismatch and Mortality Eligibility Summary Report

The Primary Procedure Mismatch report will identify operation records where the primary procedure does not match the Primary Procedure assigned by the Data Warehouse. The Case Eligibility for Inclusion in Mortality Analysis report that are identified as ineligible for risk analysis.

Harvest Summary Report

This report will allow users to see the current status of system validations on all active records saved in the system entered.

CHSD Participant Dashboard Report

This participant dashboard report will display NON-ANALYZED data results for the congenital heart surgery participants.

CHSD Risk Adjusted Dashboard Report

The electronic CHSD Risk Adjusted Report includes analyzed harvest data results in place of the pre-analyzed data. This report allows participants to compare their risk-adjusted performance against the STS overall for the same time period.

Operational Reports – Missing Data

Missing Variable Summary

Shortname	Name	Missing %	N
A1CLVL	LAST A1C LEVEL	88	36/41
ABLDGASMG	ARTERIAL BLOOD GAS MANAGEMENT DURING COOLING	0	2/741
ADEVMODEL01	AORTA DEVICE - MODEL NUMBER #01	33	1/3
ADEVMODEL02	AORTA DEVICE - MODEL NUMBER #02	50	1/2
ADEVUDI01	AORTA DEVICE - UNIQUE DEVICE IDENTIFIER #01	100	3/3
ADEVUDI02	AORTA DEVICE - UNIQUE DEVICE IDENTIFIER #02	100	2/2
AIRWAYINSITU	AIRWAY IN-SITU (ETT OR TRACHEOSTOMY)	0	6/1406
AIRWAYSITE	AIRWAY SITE	0	1/1380
AIRWAYSIZINTUB	AIRWAY SIZE - ENDOTRACHEAL INTUBATION	1	5/833
AIRWAYTYPE	AIRWAY TYPE	0	6/1406
ANTICOAGUSED	ANTICOAGULANT USED	1	8/1207
ANTIFIBTRANEXINFRATE	TRANEXAMIC ACID INFUSION RATE MG/KG/HR	0	1/1242
ANTIFIBUSAGE	ANTIFIBRINOLYTIC USED INTRAOPERATIVELY	0	1/2269
AORTADISZONE	DISTAL LOCATION	100	1/1
ARTCANNINSERTSITE	ARTERIAL CANNULATION INSERTION SITE	3	1/29

Case List

Prioritize data that will exclude the case from analysis:

- Mortality analysis
- Case mix models
- Benchmark ops
- Lesion specific ops

Use the filters to identify missing fields from specific analysis tables

Missing Data Continued...

Filter for Mortality Data

Identify cases with missing variables for mortality analysis



Complete missing fields in local software



Reupload file to IQVIA

Missing Variable Summary

Shortname	Name	Missing %	N
MT30STAT	MORTALITY - 30-DAY STATUS	1	12/2269

Case List

Operation_ID	Data Version	Surgery Year	Shortname	Name	PAT...	Access Case
V3444309	3.41	2023	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447120	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447166	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3445976	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447176	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447197	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447252	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	585	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447302	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3446066	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3446079	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447286	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/
V3447289	6.23.2	2024	MT30STAT	MORTALITY - 30-DAY STATUS	V34...	https://sts-perf1.irp.iqvia.com/platform/chsdregistry/

Missing Data

select Mortality Eligibility
Summary Report



select date range



Use filters to identify
ineligible cases

Operational Reports

Missing Variable Report

This report identifies important field-specific data quality issues that affect the completion of the National Report. The data version, surgery year, short name and field name are included in the report to facilitate clean-up activity. Information on missing data is only reported for variables used in the report.

Primary Procedure Mismatch and Mortality Eligibility Summary Report

The Primary Procedure Mismatch report will identify operation records where the primary procedure assigned by the Data Warehouse does not match the Case Eligibility for Inclusion report. These cases are identified as ineligible for risk analysis.

Harvest Summary Report

This report will allow users to see the current status of system validations on all activities entered.

CHSD Participant Dashboard Report

This participant dashboard report will display NON-ANALYZED data results for the current harvest.

CHSD Risk Adjusted Dashboard Report

The electronic CHSD Risk Adjusted Report includes analyzed harvest data results in a dashboard format that allows participants to compare their risk-adjusted performance against the STS over time.

Missing Data Continued...

Operational Reports

Identify cases with missing variables for mortality analysis



Complete missing fields in local software



Reupload file to IQVIA

Missing Variable Report

This report identifies important field-specific data quality issues that affect the completion of the National Report. The data version, surgery year, short name and field name are included in the report for clean-up activity. Information on missing data is only reported for variables used in the report.

Primary Procedure Mismatch and Mortality Eligibility Summary Report

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Mortality Eligibility Summary Report

Ineligible or Eligible

- Eligible
- Ineligible

Missing Mortality Yes/No

- Yes
- No

Data Version

- 3.41
- 6.23.2

Data Version Surgery Year Operation ID Patient ID Ineli

Primary Procedure Mismatch Summary Report Op Type 1 & 2 Case Eligibility Summary Report

Select the 2nd tab to get the correct report

Mortality Eligibility Summary Report

Op Type 1 & 2 Case Eligibility Summary

Surgical Date Range	Total Number of Records	Number of Ineligible Cases	% Missing or "Unknown"
04 Jan 2021 - 30 Dec 2021	495	0	0.00
02 Jan 2022 - 30 Dec 2022	463	0	0.00
03 Jan 2023 - 29 Dec 2023	435	1	0.23
02 Jan 2024 - 30 Dec 2024	482	10	2.11
Grand total	1875	11	0.59

Identifies missing thresholds for participant exclusion & informs which mortality fields are missing

Op Type 1 & 2 Case Eligibility Record Details

Data Version	Surgery Year	O...	P...	Ineligible or Eligible	Hospital Discharge Status	Database Discharge Status	30-day Status
6.23.2	2024	V...	V...	Ineligible			X
6.23.2	2024	V...	V...	Ineligible			X

***Reports identify missing data only – do not apply logic that will be applied in the analysis (i.e., analysis exclusions)*

Fields Required for Mortality Analysis

Mortality Variables

- Mortality status at hospital DC
- Mortality status at 30 days
- Mortality status at database DC

Non-Mortality Variables

- Date of admission
- Operation type
- Date of Surgery
- Primary diagnosis
- Primary procedure

If any are missing/unknown, the case is excluded from the mortality analysis *and* if >2% missing in a year, the participant is excluded from analysis entirely

Fields Required for Risk Model Analysis

Mortality analysis fields plus the following:

▪ Age (date of birth)*	▪ Preoperative factors
▪ Weight (neonates & infants)	▪ Chromosomal abnormalities
▪ # prior cardiothoracic operations	▪ Syndromes
▪ Prematurity (neonates & infants)	▪ Noncardiac congenital anatomic abnormalities

If >10% missing/unknown, participant is excluded from model analysis

*If missing, case is excluded

Missing Data Continued

How do I maintain organization and minimize rework?

- Keep a working report or spreadsheet to organize
- *Note:* when you update data, need to reload the data file to IQVIA to see changes
- *Note:* Data updates will impact multiple reports in IQVIA

What if I cannot find the info to complete the fields?

- There is an acceptable level of missing – should be minimal
- Missing thresholds applied in analysis
- Cases or entire data sets (participants) may be excluded from analysis

Primary Procedure Mismatch Report

Identifies if your entered primary procedure is following the STS rules for determining the primary procedure of an operation

Recommended to update your primary procedures to match the STS analysis report

Rules for determining primary procedure are updated periodically (*i.e., new rules for procedures with procedure specific factors*)

Primary Procedure Mismatch Report

Primary Procedure Mismatch Summary

Surgery Year	Surgical Date Range	Total Count
2021	18 Jan 2021 - 16 Dec 2021	15
2022	11 Jan 2022 - 19 Dec 2022	18
2023	03 Jan 2023 - 29 Jun 2023	8
2024	01 Mar 2024 - 19 Sep 2024	3

Identifies mismatches by year

Identifies correct primary procedure

Primary Procedure Mismatch Record Details

Data Version	Surgery Year	Opera...	Patie...	Participant Primary	Participant Primary Procedure Description	STS Primary	STS Primary Pr
6.23.2	2024	V3446...	V342...	2130	Superior Cavopulmonary anastomosis(es...	340	Systemic venou
6.23.2	2024	V3446...	V342...	1670	Bidirectional cavopulmonary anastomosi...	1640	PA banding (PA
6.23.2	2024	V3447...	V342...	2130	Superior Cavopulmonary anastomosis(es...	340	Systemic venou



The identified primary procedure is what will be analyzed

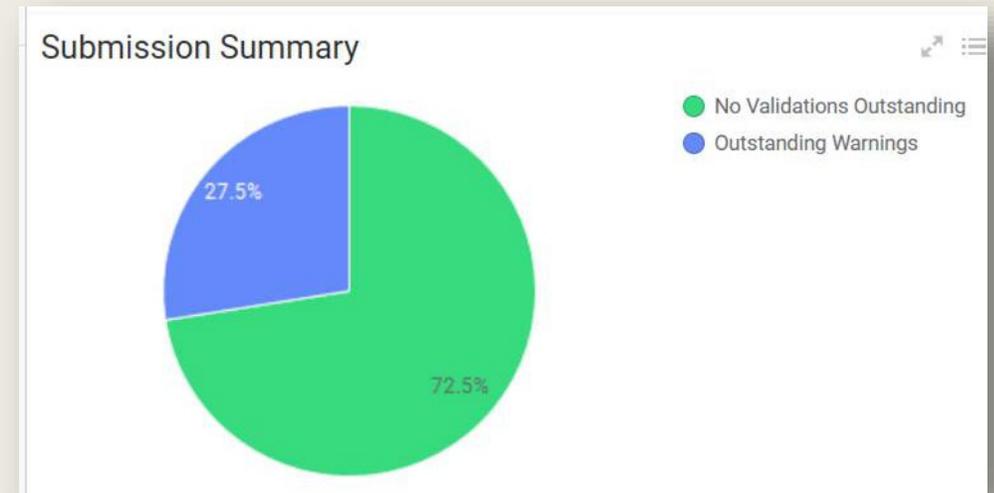
Primary Procedure Mismatch Report - CAUTION

Cannot code 6.23.2 procedures for surgeries that occurred prior to 07/01/23

- Procedure codes starting with 5000
- The primary procedure mismatch report will still report them - **IGNORE**

Harvest Summary Report

- Identifies data file errors & warnings
- Includes (but not limited to):
 - Missing 365-day status
 - Missed combination codes
 - Valid but out of range values



Record Level Validation

Validation Status	Oper...	Short Name	MESSAGE	Sour...	Access Case
Warning	V343...	mt365stat	Status at 365 days after Surgery(4311) should be ent...	V34...	https://sts.irp.iqvia.com/platform/ch
Warning	V343...	mt365stat	Status at 365 days after Surgery(4311) should be ent...	V34...	https://sts.irp.iqvia.com/platform/ch
Warning	V343...	mt365stat	Status at 365 days after Surgery(4311) should be ent...	V34...	https://sts.irp.iqvia.com/platform/ch

CHSD Participant Dashboard

- Useful for data validation
- Can filter by index operation, not just OpType 1 & 2

Parameters

Time Period ● Procedures ● Age ● Index Operation ●

Show Index Operations Only

Yes ▼

Select index or all operations

CHSD Participant Dashboard

- Data validation by listed report
- Able to drill down to patient/case level
- Can also identify missing data

CHSD Participant Dashboard

DISCHARGE/READMISSION Report

- *Can validate your submission for the fields used to determine mortality*

DISCHARGE/READMISSION	NUMBER OF CASES	NUMBER OF CASES
	MORTALITY STATUS AT HOSPITAL DISCHARGE:	ALIVE
		DEAD
		MISSING
	MORTALITY STATUS AT DATABASE DISCHARGE	ALIVE
		DEAD
		UNKNOWN
		MISSING

- **Easiest to export tables into Excel**
- **Review each case marked as dead**

TIPS FOR A SUCCESSFUL HARVEST



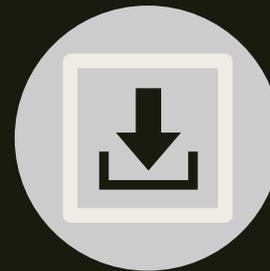
Do not wait until end of harvest to clean/validate data



Consistent and organized approach



Make changes in local software & re-upload to IQVIA



Re-validate IQVIA reports after re-upload of data