



Society of Thoracic Surgeons

Congenital Heart Surgery Database  
User Group Call

September 05, 2023

# Agenda

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- Welcome and Introduction
- STS Update
- STS Data Manager Education (Chasity Wellnitz and Leslie Wacker, CHSD Consultants)
- Q&A

# STS Updates

- September Training Manual to be posted by Friday 9/8
- STS Website and IQVIA Library Cleanup
  - Purpose is to maintain version control
  - Moving forward *Additional Resources* will be included in the Analyses Overview and Training Manual
    - Rules to Determine Primary Diagnosis and Primary Procedure
    - STS Combination Procedure Codes
  - Appendix C: STAT Categories **(NO CHANGES TO ANY SCORES OR CATEGORIES)**

✓ Version 6.23.2

*Effective July 1, 2023*

## Training Manual - Updated August 2023

- [Training Manual](#)
- [FAQ Summary](#)

## Data Collection Forms (DCFs)

- [Annotated Data Collection Form \(PDF\)](#)
- [Annotated Data Collection Form \(WORD\)](#)

*\*To view annotation in Word document DCF versions, select File — Options — Display — Hidden Text — Print Hidden Text, and then click OK. If you need further assistance, please contact your IT Department or do an internet search for your specific version of Office on ways to view hidden text.*

## Additional Resources

- [Data Specifications](#)
- [Itemized Changes from 3.41 to 6.23.2](#)
- [Summary Checklist of Changes from 3.41 to 6.23.2](#)
- [Software Specifications](#)
- [CHSD Analyses Overview](#)
- [Appendix C: STAT Categories \(WORD\)](#)
- [Appendix C: STAT Categories \(EXCEL\)](#)

# STS Updates

- Fall 2023 Harvest: Includes Surgery dates 7/1/2019 -6/30/2023
  - Harvest Closes **September 15<sup>th</sup> @ 11:59pmET**
  - Opt Out no later than **September 19<sup>th</sup>**
  - At Risk for Exclusion emails will be sent 1 week prior to harvest close (Friday, September 8<sup>th</sup>)
- AQO 2023 - CHSD Session is Friday, September 29th
  - Registration is underway
    - Before the meeting, there will be “know before you go” email sent with your login credentials and information regarding the virtual meeting
  - Preliminary agenda is available on the STS website
  - Justification Letter
    - A personalized letter can be provided to let your supervisor know how important it is for you to attend this year’s AQO meeting. This letter signed by our STS President lists the benefits of attending and potential return on investment for your organization

# STS Updates

- **Missing Variable Report – Issue Identified by IQVIA**
  - An issue (STS-9674) has been identified and currently under review by the IQVIA development team where the PregCompMulti is displaying as blank on the case form after the data was uploaded and the MVR is displaying that variable as missing despite that the data is available in the .dat file.
  - Root Cause Identified: The Pregcompmulti is now a multi select field on form version 6.23.2. For previous form versions, the options were all individual variables, and the required mapping has to be completed to resolve this issue.
  - IQVIA is currently working on making this correction and releasing the update to the production environment as soon as possible. This will not impact your current harvest analysis.



# 6.23.2 Data Manager Education

September 05, 2023



# Discussion Topics

- September TM Updates
  - Readmissions
  - Arrhythmia necessitating PPM
- Harvest Tips

## TM Updates

- Training manual updates will be made at least monthly
- Updates to TM denoted in red font with the date (month-year) of the update denoted
- Date is the 1<sup>st</sup> of the month
  - Sept-23 means surgery dates on or after 09/01/23



## TM Update: Readmissions

### (4890) Readmission within 30 Days - *REVISED*

Readmissions do not include observation status stays ~~(regardless of the duration)~~ at an acute care facility unless the observation visit turns into an inpatient admission **or if the observation visit is longer than 24-hours (update Sept-23)**. In the event an observation visit becomes an inpatient admission, use the first day of the observation visit as the readmission date.

## TM Update – Postoperative Event

### (74) Arrhythmia necessitating pacemaker, Permanent pacemaker - *CLARIFICATION*

- No longer overlaps with PO event (22) Unplanned cardiac reoperation
- *Reminder* – collect for the major event timeframe – the timeframe that is the longest (1) through the 30<sup>th</sup> postoperative day *or* (2) through the end of the surgical hospitalization *or* (3) through the end of the episode of care

## Case Scenario – Q1

*Fourteen days following VSD repair, a patient is admitted with complete heart block and the cardiac surgeon places a permanent pacemaker.*

Should postoperative event Arrhythmia necessitating pacemaker, Permanent pacemaker be captured on the VSD repair?

☐ Yes

☐ No

## Case Scenario – Q1

*Fourteen days following VSD repair, a patient is admitted with complete heart block and the cardiac surgeon places a permanent pacemaker.*

Should postoperative event Arrhythmia necessitating pacemaker, Permanent pacemaker be captured on the VSD repair?

☒ Yes – *major event timeframe*

☐ No

## Case Scenario – Q2

*Fourteen days following VSD repair, a patient is admitted with complete heart block and the cardiac interventionalist performs the permanent pacemaker placement in the cardiac catheterization lab.*

Should postoperative event arrhythmia necessitating permanent pacemaker be captured on the VSD repair (index operation)?

☐ Yes

☐ No

## Case Scenario – Q2

*Fourteen days following VSD repair, a patient is admitted with complete heart block and the cardiac interventionalist performs the permanent pacemaker placement in the cardiac catheterization lab.*

Should postoperative event arrhythmia necessitating permanent pacemaker be captured on the VSD repair (index operation)?

☒ Yes – *does not matter who performs the PPM placement or where the procedure was performed*

☐ No

## Case Scenario – Q3

*Fourteen days following VSD repair, a patient is admitted with complete heart block and a permanent pacemaker is placed by the cardiac surgeon.*

Should postoperative event Unplanned cardiac reoperation be captured on the VSD repair (index operation)?

☐ Yes

☐ No

## Case Scenario – Q3

*Fourteen days following VSD repair, a patient is admitted with complete heart block and a permanent pacemaker is placed by the cardiac surgeon.*

Should postoperative event Unplanned cardiac reoperation be captured on the VSD repair (index operation)?

☐ Yes

☒ No – *in version 6.23.2, these events will not overlap*



## Case Scenario – Q4

*Fourteen days following VSD repair, a patient is admitted with complete heart block and a permanent pacemaker is placed.*

Was the patient readmitted within 30-days of hospital discharge?

☐ Yes

☐ No

## Case Scenario – Q4

*Fourteen days following VSD repair, a patient is admitted with complete heart block and a permanent pacemaker is placed.*

Was the patient readmitted within 30-days of hospital discharge?

- ☒ Yes – *readmission 14-days following surgery must mean within 30-days of hospital discharge*
- ☐ No

## Case Scenario – Q5

*Fourteen days following VSD repair, a patient presents to the ED with chest pain and is placed on observation status for 3 days to watch for arrhythmias.*

Was the patient readmitted within 30-days of hospital discharge?

☐ Yes

☐ No

## Case Scenario – Q5

*Fourteen days following VSD repair, a patient presents to the ED with chest pain and is placed on observation status for 3 days to watch for arrhythmias.*

Was the patient readmitted within 30-days of hospital discharge?

- ☒ Yes – *the observation status was longer than 24-hours*
- ☐ No

## Case Scenario – Q6

*Fourteen days following VSD repair, a patient presents to the ED with chest pain and is placed on observation status for 3 days to watch for arrhythmias.*

What date should be entered for the date of readmission?

- ☐ The date the patient arrived on observation status
- ☐ The date the patient was on observation status for >24 hours
- ☐ The date the patient discharged to home

## Case Scenario – Q6

*Fourteen days following VSD repair, a patient presents to the ED with chest pain and is placed on observation status for 3 days to watch for arrhythmias.*

What date should be entered for the date of readmission?

- ☒ The date the patient arrived on observation status
- ☐ The date the patient was on observation status for >24 hours
- ☐ The date the patient discharged to home

## Harvest Review – tips and tricks

### Fall 2023 Harvest:

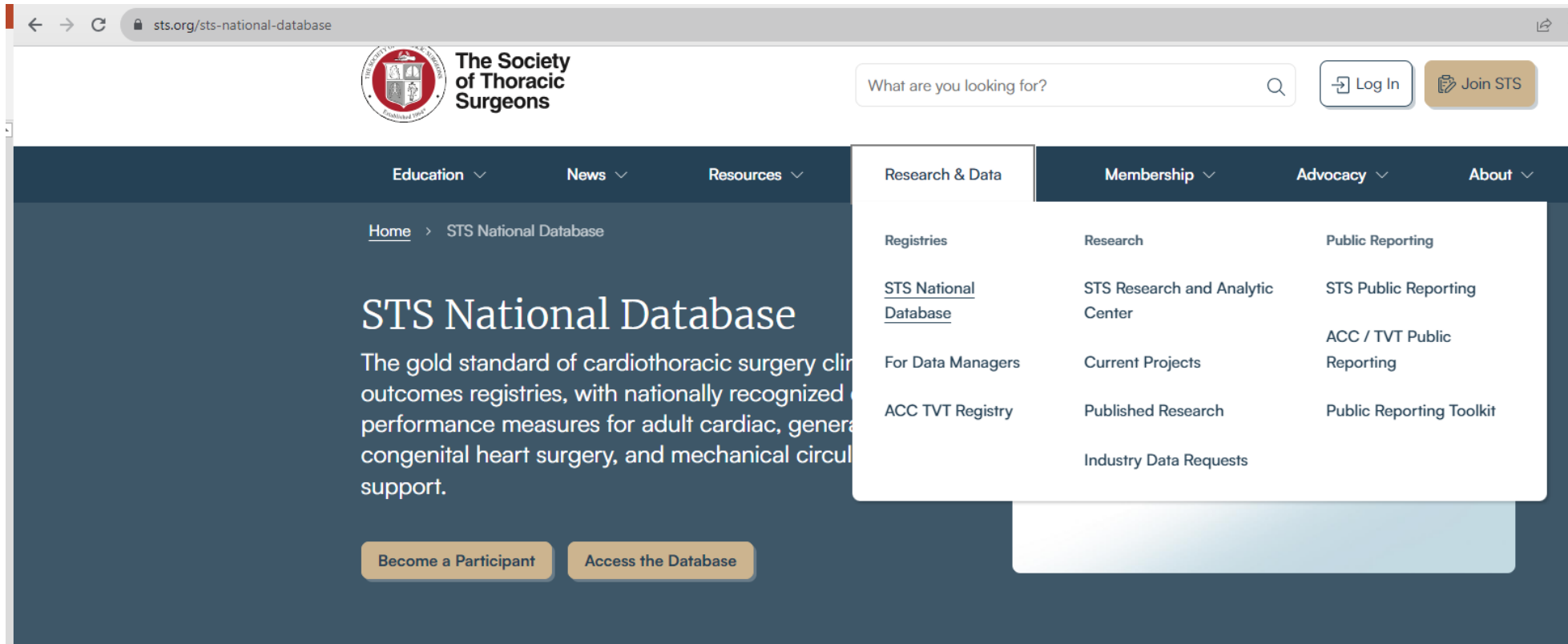
- Harvest closes **September 15 @ 11:59 pm EST**
- Opt out date: **September 19**

### Harvest Report

- Participants who are ***at risk*** of not meeting mortality and risk model thresholds
- Report cannot be rerun – this is a **one-time** courtesy

# Harvest Review – tips and tricks

## Review published webinars –



The screenshot shows the STS National Database website. The browser address bar displays `sts.org/sts-national-database`. The website header includes the STS logo and the text "The Society of Thoracic Surgeons". A search bar with the placeholder "What are you looking for?" and a magnifying glass icon is present, along with "Log In" and "Join STS" buttons. The main navigation menu includes "Education", "News", "Resources", "Research & Data", "Membership", "Advocacy", and "About". The "Research & Data" menu is open, showing a list of links: "Registries", "Research", and "Public Reporting". Under "Registries" are "STS National Database", "For Data Managers", and "ACC TVT Registry". Under "Research" are "STS Research and Analytic Center", "Current Projects", "Published Research", and "Industry Data Requests". Under "Public Reporting" are "STS Public Reporting", "ACC / TVT Public Reporting", and "Public Reporting Toolkit". The main content area features the heading "STS National Database" and a description: "The gold standard of cardiothoracic surgery clinical outcomes registries, with nationally recognized performance measures for adult cardiac, general thoracic, congenital heart surgery, and mechanical circulatory support." Below this description are two buttons: "Become a Participant" and "Access the Database".

sts.org/sts-national-database

The Society of Thoracic Surgeons

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The gold standard of cardiothoracic surgery clinical outcomes registries, with nationally recognized performance measures for adult cardiac, general thoracic, congenital heart surgery, and mechanical circulatory support.

Become a Participant Access the Database

Registries Research Public Reporting

STS National Database STS Research and Analytic Center STS Public Reporting

For Data Managers Current Projects ACC / TVT Public Reporting

ACC TVT Registry Published Research Public Reporting Toolkit

Industry Data Requests



# Harvest Review – tips and tricks

## Congenital Heart Surgery Database

The STS Congenital Heart Surgery Database (CHSD) is the largest database in North America dealing with congenital cardiac malformations. The CHSD contains more than 600,000 congenital heart surgery procedure records and currently has more than 1,000 participating physicians, including surgeons and anesthesiologists.



## Data Manager Resources

Visit the Resources for Data Managers page for important forms, upcoming webinar schedules, harvest deadlines, and more.

[Resources for Data Managers](#)

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[Access Data Collection Resources](#)

- › [Sample Data Analysis Reports](#)
- › [CHSD Harvest Deadlines](#)

### CHSD Webinars

#### CHSD User Group Call

September 5 at 1 p.m. ET • 12 p.m. CT

Call In: 888-475-4499 or 312-626-6799

Webinar ID: 576 785 195

[International Dial-in Numbers](#)

[Join Webinar](#)

#### CHSD Monthly Webinar

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#### Most Recent CHSD Webinar

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[View Slides](#) - CHSD User Group Call - August 1, 2023

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# Harvest Review – tips and tricks



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1 **Discussion Topics**  
Hernia Procedure Coding Training Manual Updates  
46:22  
CHSD Monthly Webinar - August 15, 2023  
STS National Database • 11 views • 5 days ago
- 

2 **Discussion Topics**  
Target what you thought you knew  
Recent changes to TCM  
Changes for the ICD process  
44:42  
CHSD User Group Call - August 1, 2023  
STS National Database • 47 views • 3 weeks ago
- 

3 **6.23.2 Data Manager Education**  
July 18, 2023  
52:25  
CHSD User Group Call - July 18, 2023  
STS National Database • 71 views • 1 month ago
- 

4 **Discussion Topics**  
Responder Event:  
Responder  
International efforts  
New organizational structure  
Responder  
Trauma/Disaster  
Emergency  
46:30  
CHSD Monthly Webinar - June 20, 2023  
STS National Database • 97 views • 2 months ago
- 

5 **STS Update**  
25:58  
CHSD User Group Call - June 6, 2023  
STS National Database • 54 views • 2 months ago
- 

6 **STS Update**  
56:07  
CHSD Monthly Webinar - May 16, 2023  
STS National Database • 58 views • 2 months ago
- 

7 **Upcoming CHSD Webinar**  
Monthly Webinar  
May 18 @ 12pm CT  
User Group Call  
CHSD User Group Call - May 2, 2023  
STS National Database • 88 views • 3 months ago

## Harvest Review – tips and tricks

1. August 16, 2022 – CHSD webinar with Harvest tips

<https://www.youtube.com/watch?v=UQgg2Mb2wA0&list=PL1hqaVNnwZpU9gSLbaoGYALtwONjz6ASO&index=19>

2. May 17, 2022 – CHSD webinar covering updates to STAT scores, Appendix C, etc.

<https://www.youtube.com/watch?v=pT8f9HJv1yw&list=PL1hqaVNnwZpU9gSLbaoGYALtwONjz6ASO&index=23>

## Harvest Review – tips and tricks

### To Do List:

- ☐ Run local software/reports
- ☐ IQVIA – DQR – check for critical errors, correct and resubmit
- ☐ IQVIA – Primary Procedure Mismatch and Mortality Eligibility Summary
- ☐ IQVIA – Harvest Summary Report
- ☐ IQVIA – Missing Variable Report



## Harvest Review – tips and tricks

### Run local software/reports

- Individual case validation
- Missingness reports
- 30 day / 365 day status
- Other follow up



## Harvest Review – tips and tricks

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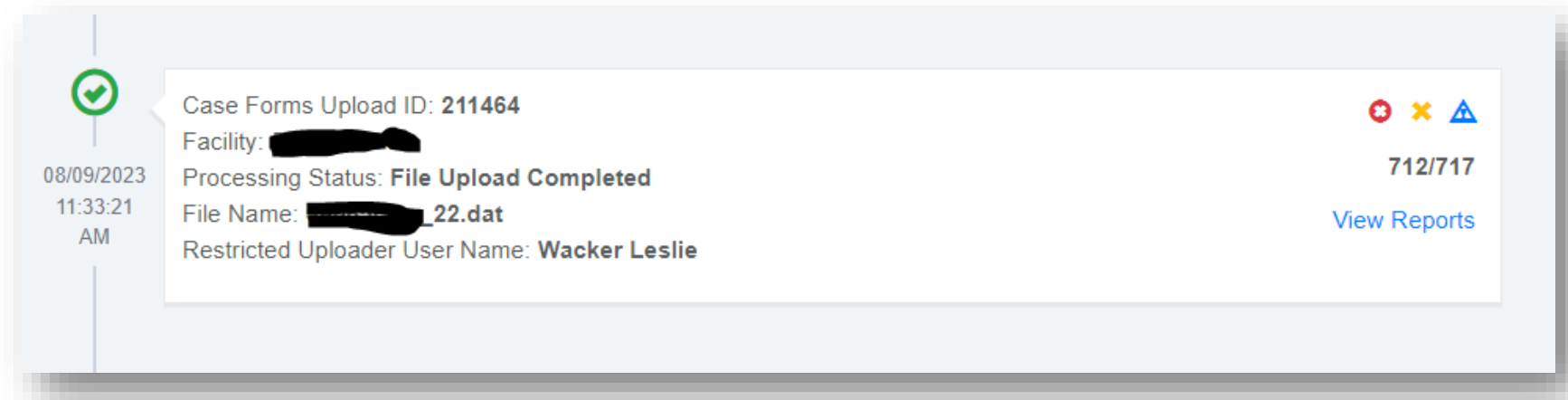
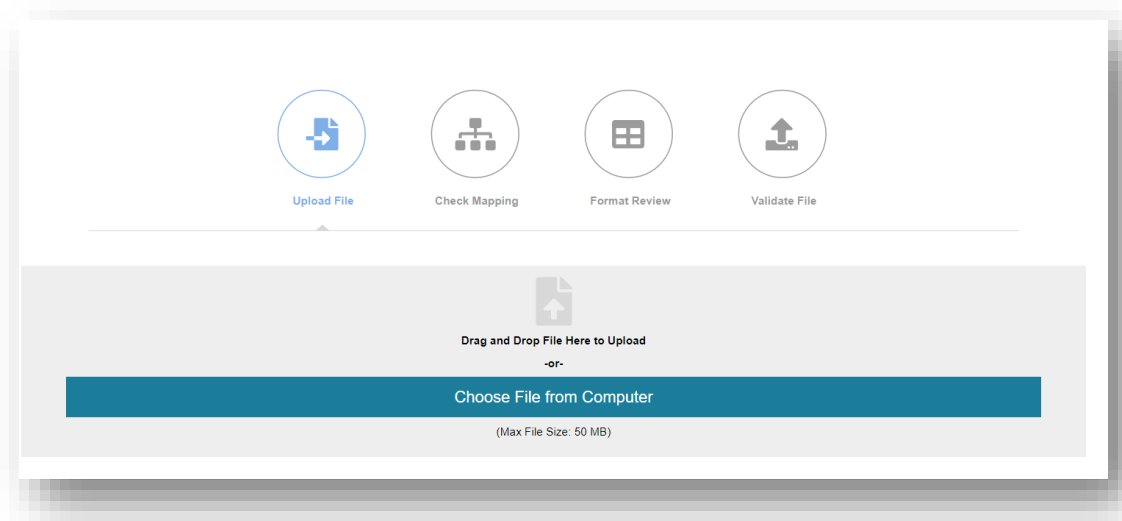


# Harvest Review – tips and tricks

Submit to IQVIA

Using the uploader, submit a file to IQVIA

Check for upload completion



## Harvest Review – tips and tricks

Use the Data Quality Report (DQR) to identify and fix



Critical Errors –

Case not submitted to IQVIA, not included in reports  
FIX IMMEDIATELY and resubmit



Errors –

Case submitted to IQVIA, but fields are invalid/illogical  
FIX and resubmit



Warnings –

Case submitted to IQVIA, but may need a double check  
If changes are made, resubmit

## Harvest Review – tips and tricks

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# Harvest Review – tips and tricks

## Primary Procedure Mismatch and Mortality Eligibility Summary

### Operational Reports

#### CHSD Reports

##### Missing Variable Report

This report identifies important field-specific data quality issues that affect the completeness of your harvest and may impact analysis and reporting of your data in the National Report. The data version, surgery year, short name and field name are shown for each issue to help you target and prioritize your data review and clean-up activity. Information on missing data is only 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 by the Participant does not match the Primary Procedure assigned by the Data Warehouse. The Case Eligibility for Inclusion in Mortality Analysis report will provide users with a summary of all cases 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 database based on the identified surgery data range entered.

##### CHSD Participant Dashboard Report

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

##### CHSD Risk Adjusted Dashboard Report

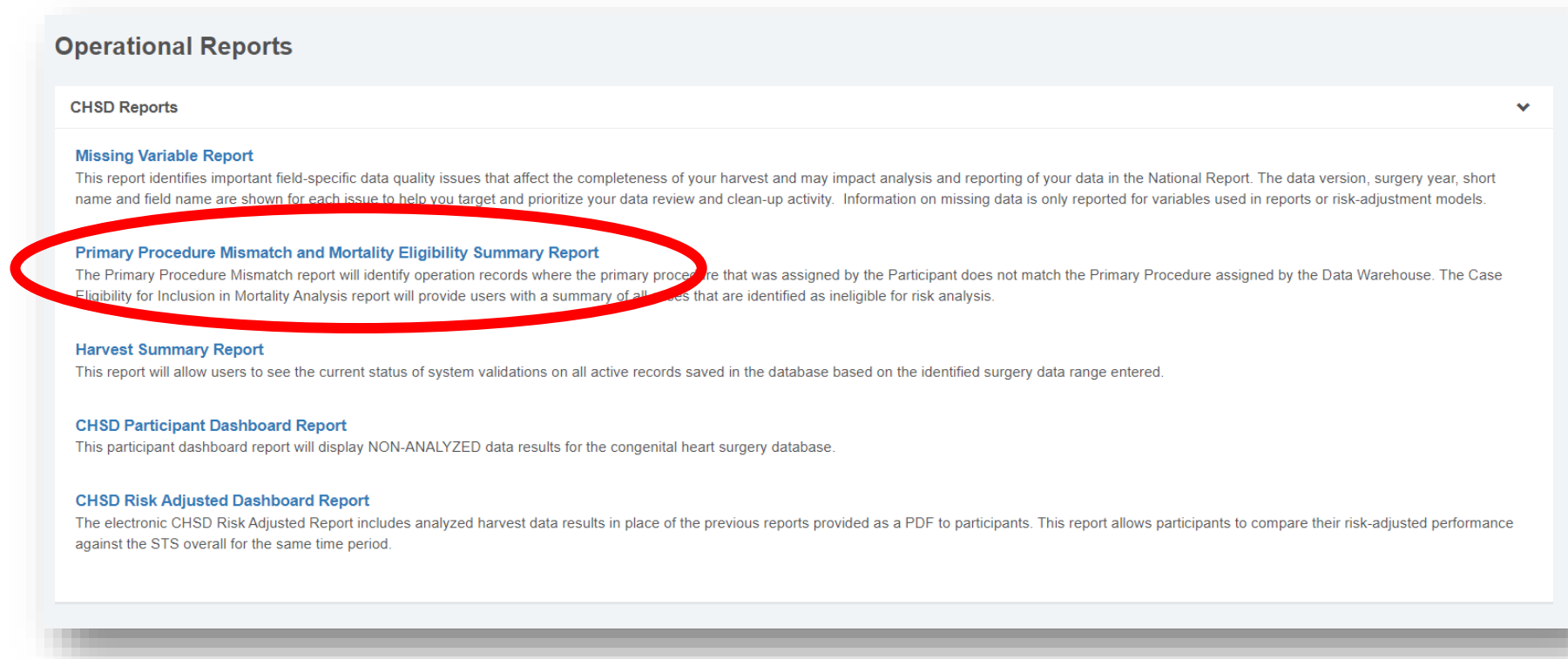
The electronic CHSD Risk Adjusted Report includes analyzed harvest data results in place of the previous reports provided as a PDF to participants. This report allows participants to compare their risk-adjusted performance against the STS overall for the same time period.

# Harvest Review – tips and tricks

## Primary Procedure Mismatch and Mortality Eligibility Summary

1. Pick Harvest period
2. Check Mortality Eligibility Summary (under 2%), update
3. Check Procedure Mismatch, update if appropriate

4. RESUBMIT



The screenshot shows the 'Operational Reports' section of a web application. Under the 'CHSD Reports' dropdown menu, several reports are listed. The report titled 'Primary Procedure Mismatch and Mortality Eligibility Summary Report' is circled in red. The description for this report states: 'The Primary Procedure Mismatch report will identify operation records where the primary procedure that was assigned by the Participant does not match the Primary Procedure assigned by the Data Warehouse. The Case Eligibility for Inclusion in Mortality Analysis report will provide users with a summary of all cases that are identified as ineligible for risk analysis.'

**Operational Reports**

**CHSD Reports**

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## Harvest Review – tips and tricks

### To Do List:

- ☒ Run local software/reports
- ☒ IQVIA – DQR – check for critical errors, correct and resubmit
- ☒ IQVIA – Primary Procedure Mismatch and Mortality Eligibility Summary
- ☐ IQVIA – Harvest Summary Report
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# Harvest Review – tips and tricks

## Harvest Summary Report

### Operational Reports

#### CHSD Reports

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# Harvest Review – tips and tricks

## Harvest Summary Report

1. Enter date range
2. Check for outstanding warnings/errors
3. Fix in local software
4. RESUBMIT

### Operational Reports

#### CHSD Reports

##### [Missing Variable Report](#)

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# Harvest Review – tips and tricks

## Missing Variable Report

### Operational Reports

#### CHSD Reports

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# Harvest Review – tips and tricks

## Missing Variable Report

1. Enter date range
2. Select index only (or not)
3. Utilize filters
4. Fix, update locally

5. RESUBMIT

The screenshot shows a web interface titled "Operational Reports". Under the "CHSD Reports" section, several reports are listed. The "Missing Variable Report" is circled in red. Below it are the "Primary Procedure Mismatch and Mortality Eligibility Summary Report", "Harvest Summary Report", "CHSD Participant Dashboard Report", and "CHSD Risk Adjusted Dashboard Report".

**Operational Reports**

**CHSD Reports**

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4. Fix, update locally

5. RESUBMIT

**CHSD Reports**  
Missing Variable Report

Export

**Report Description:**  
Use this report to determine which variables are missing data for the date range selected.

Date Range: 07/01/2022 - 06/30/2023

All  
Mortality  
Anesthesia  
Risk Model

Operation Type  
☒ OPERATION TYPE 1 AND 2

**Missing Variable Summary**

Shortname	Name	Missing %	N
MT30STAT	MORTALITY - 30-DAY STATUS	1	4/485
MTDBDISSTAT	MORTALITY STATUS AT DATABASE DISCHARGE	0	2/470

**Case List**

Operation_ID	Data Version	Surgery Year	Shortname	Name	PATIENT_DISPLAY_ID	Access Case
11111	3.41	2022	MT30STAT	MORTALITY - 30-DAY STATUS	11111	<a href="https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3436146&amp;record_id=3436146">https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3436146&amp;record_id=3436146</a>
11111	3.41	2023	MT30STAT	MORTALITY - 30-DAY STATUS	11111	<a href="https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3735683&amp;record_id=3735683">https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3735683&amp;record_id=3735683</a>
11111	3.41	2023	MT30STAT	MORTALITY - 30-DAY STATUS	11111	<a href="https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3735663&amp;record_id=3735663">https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3735663&amp;record_id=3735663</a>
11111	3.41	2023	MT30STAT	MORTALITY - 30-DAY STATUS	11111	<a href="https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3735695&amp;record_id=3735695">https://sts.irp.iqvia.com/platform/chsdregistry/facility/1471/case-report-form?patient_id=3735695&amp;record_id=3735695</a>

# Harvest Review – tips and tricks

## To Do List:

- ☒ Run local software/reports
- ☒ IQVIA – DQR – check for critical errors, correct and resubmit
- ☒ IQVIA – Primary Procedure Mismatch and Mortality Eligibility Summary
- ☒ IQVIA – Harvest Summary Report
- ☒ IQVIA – Missing Variable Report





# In Summary

Use the most recent TM posted

Note the updated definitions

Individual questions will not be  
posted

Utilize local and IQVIA reports

Submit harvest early and often!

Available for help always!

# Open Discussion

Please use the  
Q&A Function.

We will answer as  
many questions as  
possible.

We encourage  
your feedback and  
want to hear from  
you!



Upcoming  
CHSD  
Webinars

# Monthly Webinar

- 09/19/23 - cancelled

## User Group Call

- 10/10/23 @ 12pm CT note  
new date

# Contact Information

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THANK YOU FOR JOINING!