STS National Database™

Trusted. Transformed. Real-Time.

Society of Thoracic Surgeons

Congenital Heart Surgery Database User Group Call

September 05, 2023

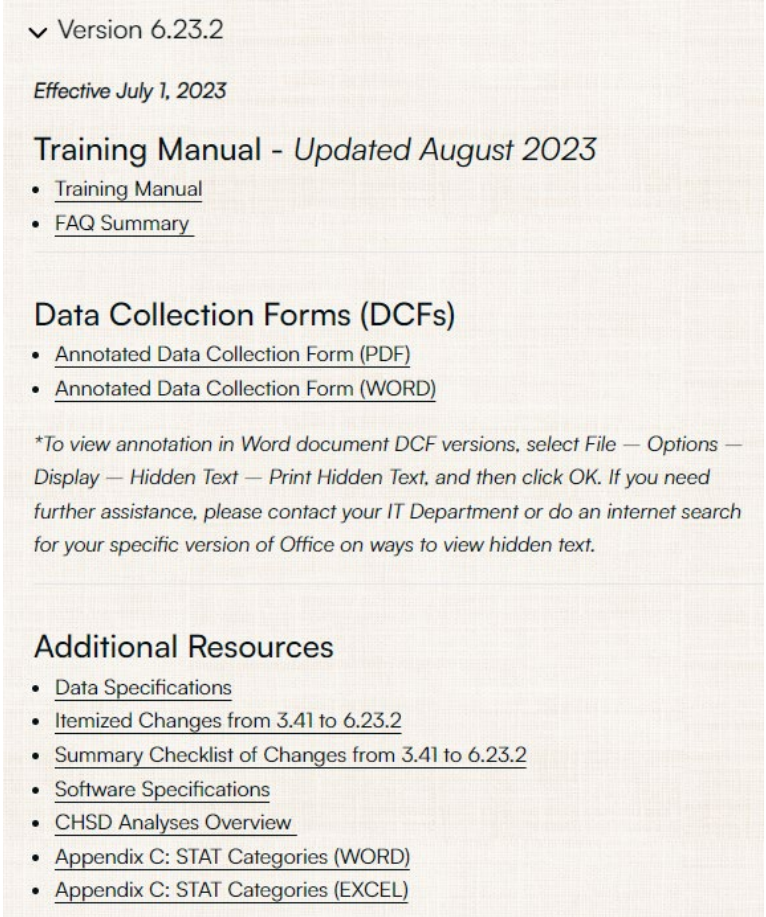
Agenda

- 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 15th @ 11:59pmET**
  - Opt Out no later than **September 19th**
  - At Risk for Exclusion emails will be sent 1 week prior to harvest close (Friday, September 8th)

- 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 1st 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 30th 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?

- [x] 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?

- [x] 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?

- [x] 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:

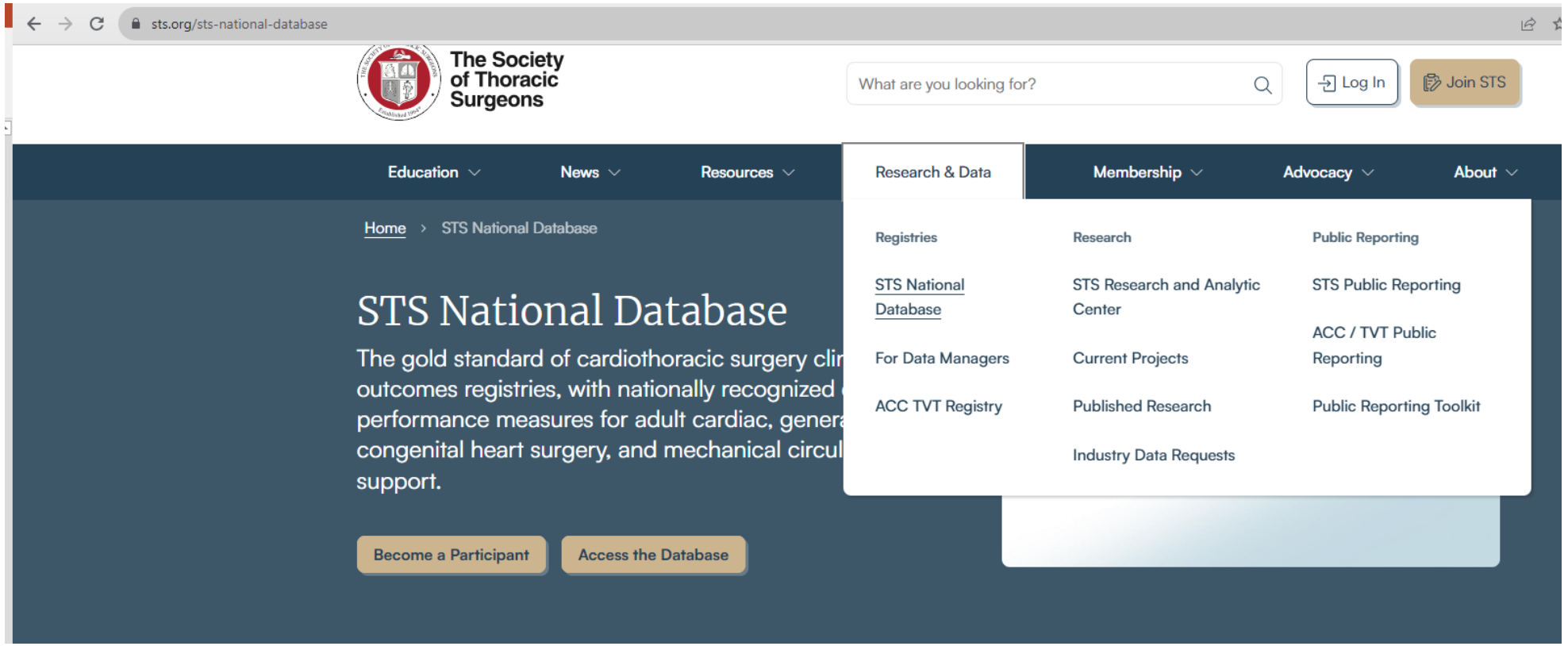
- Harvest closes September 15 @ 11:59 pm EST
- Opt out date: September 19

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 –



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.

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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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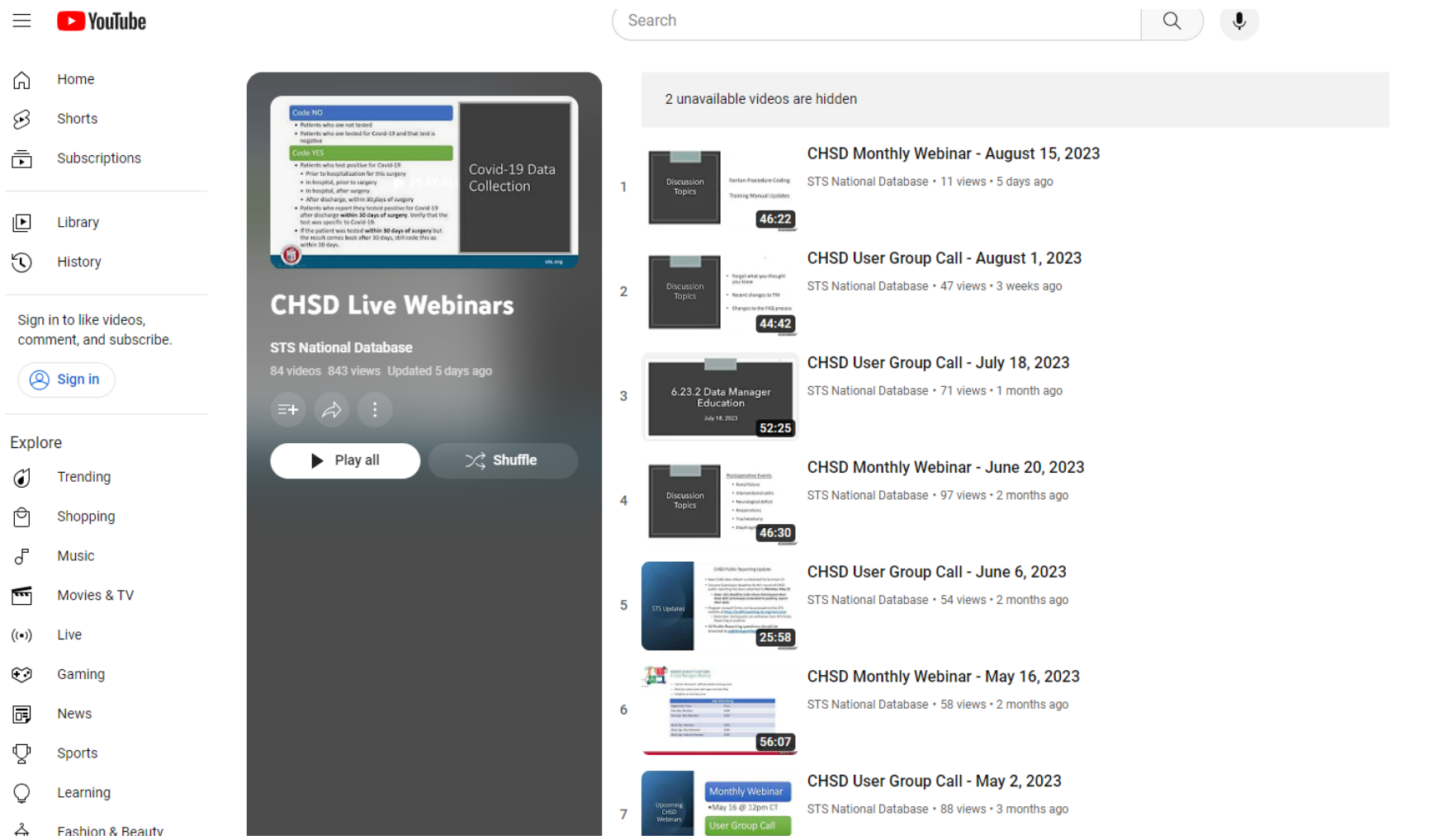

Harvest Review – tips and tricks

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

To Do List:

- [x] Run local software/reports
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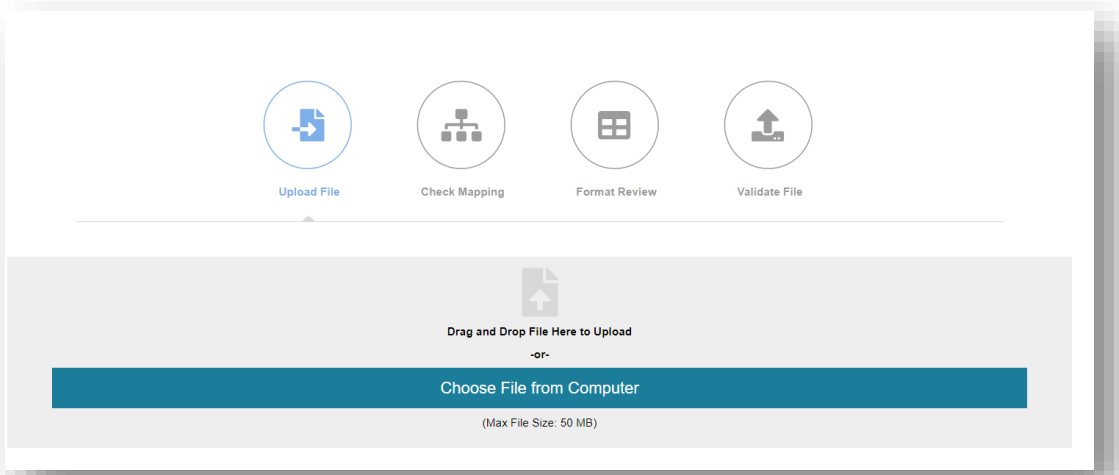
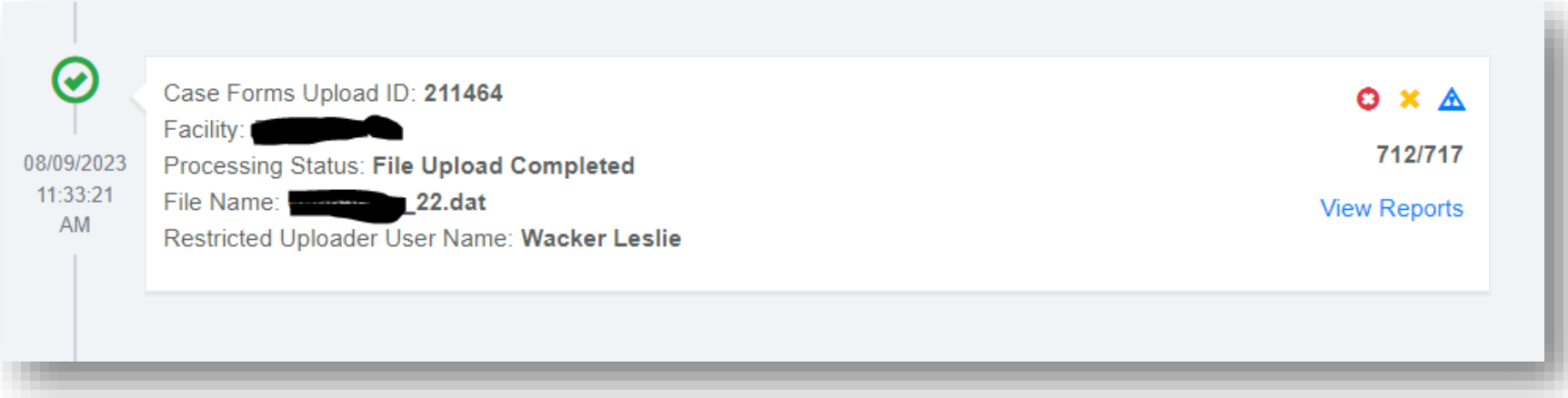
Harvest Review – tips and tricks

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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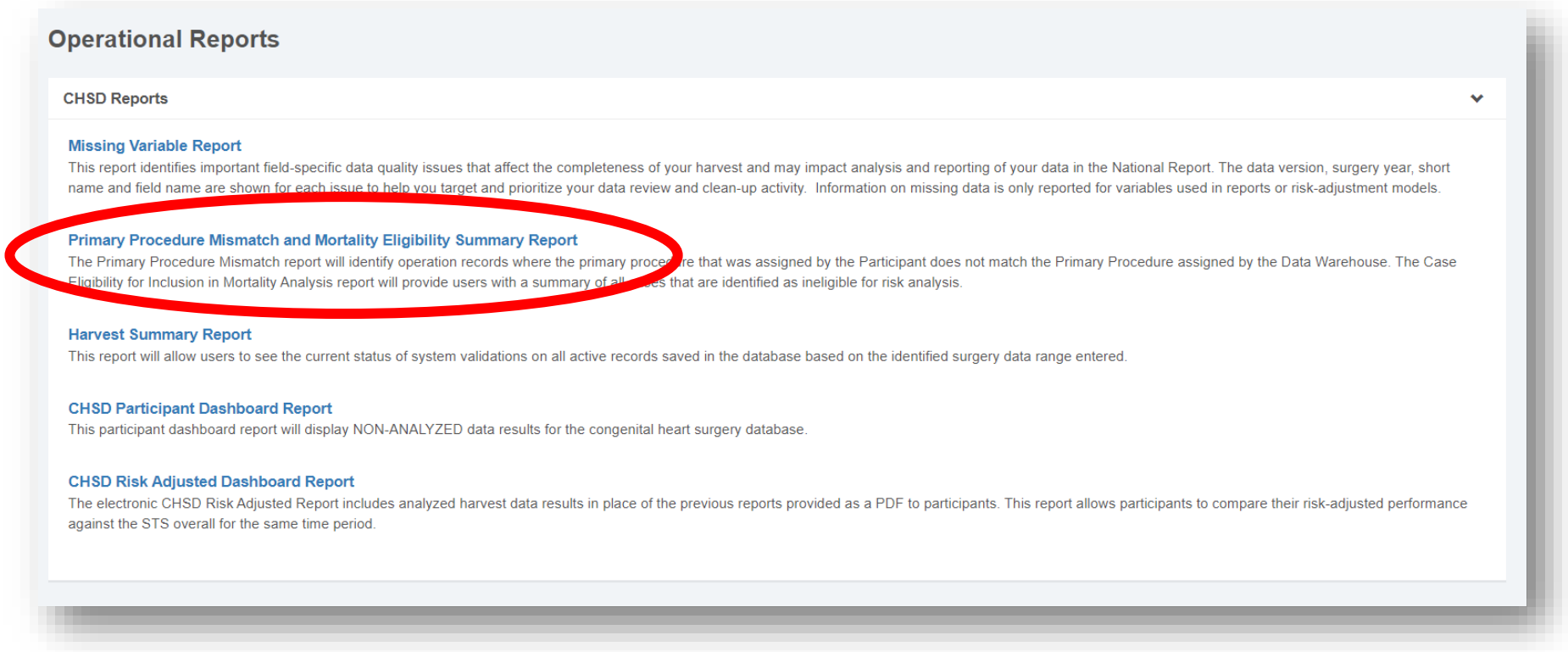
Harvest Review – tips and tricks

Primary Procedure Mismatch and Mortality Eligibility Summary

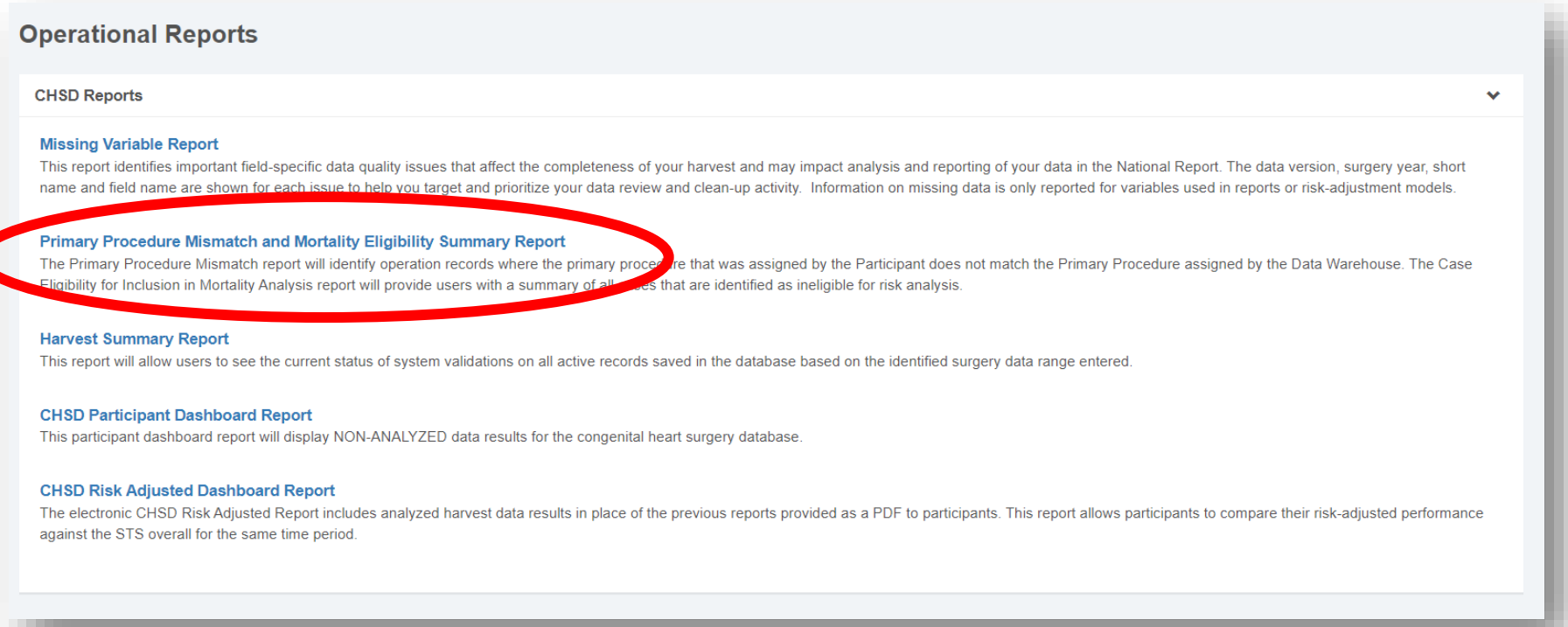


Harvest Review – tips and tricks

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



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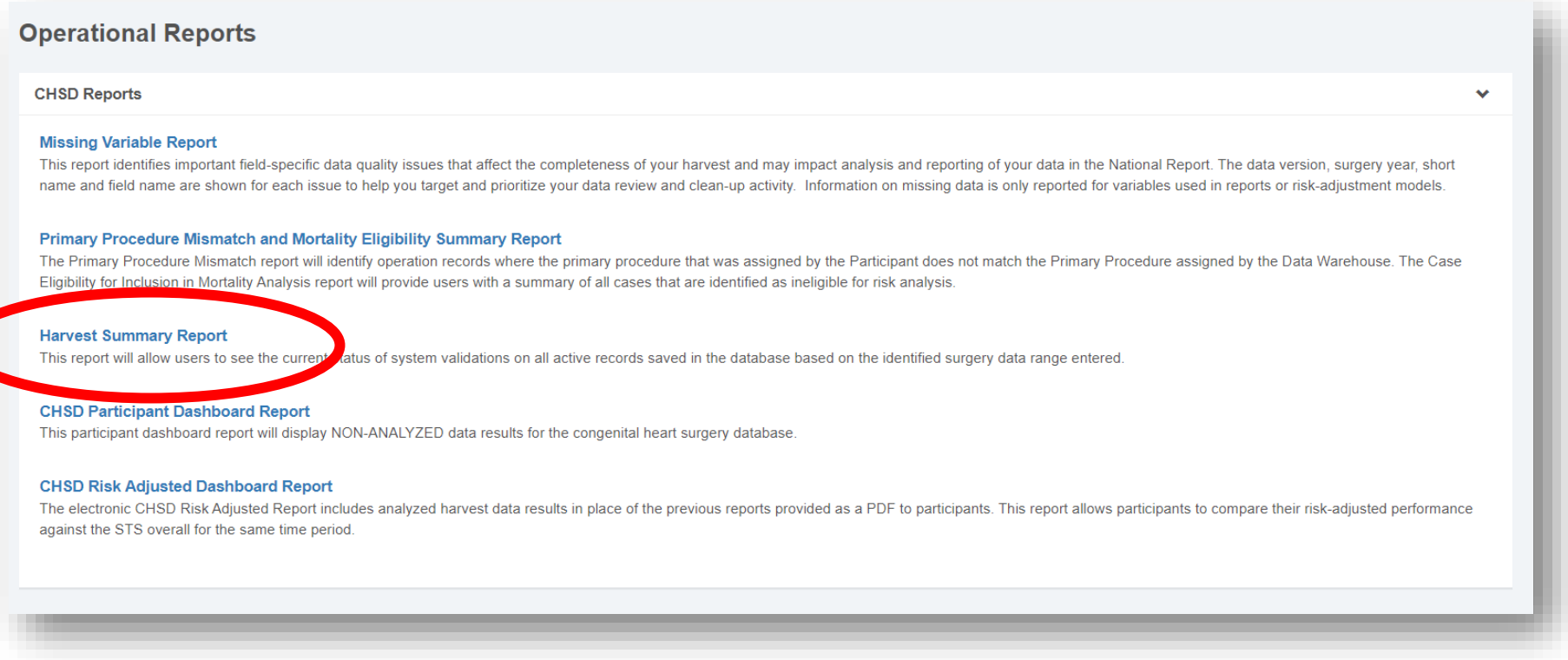
Harvest Review – tips and tricks

Harvest Summary Report

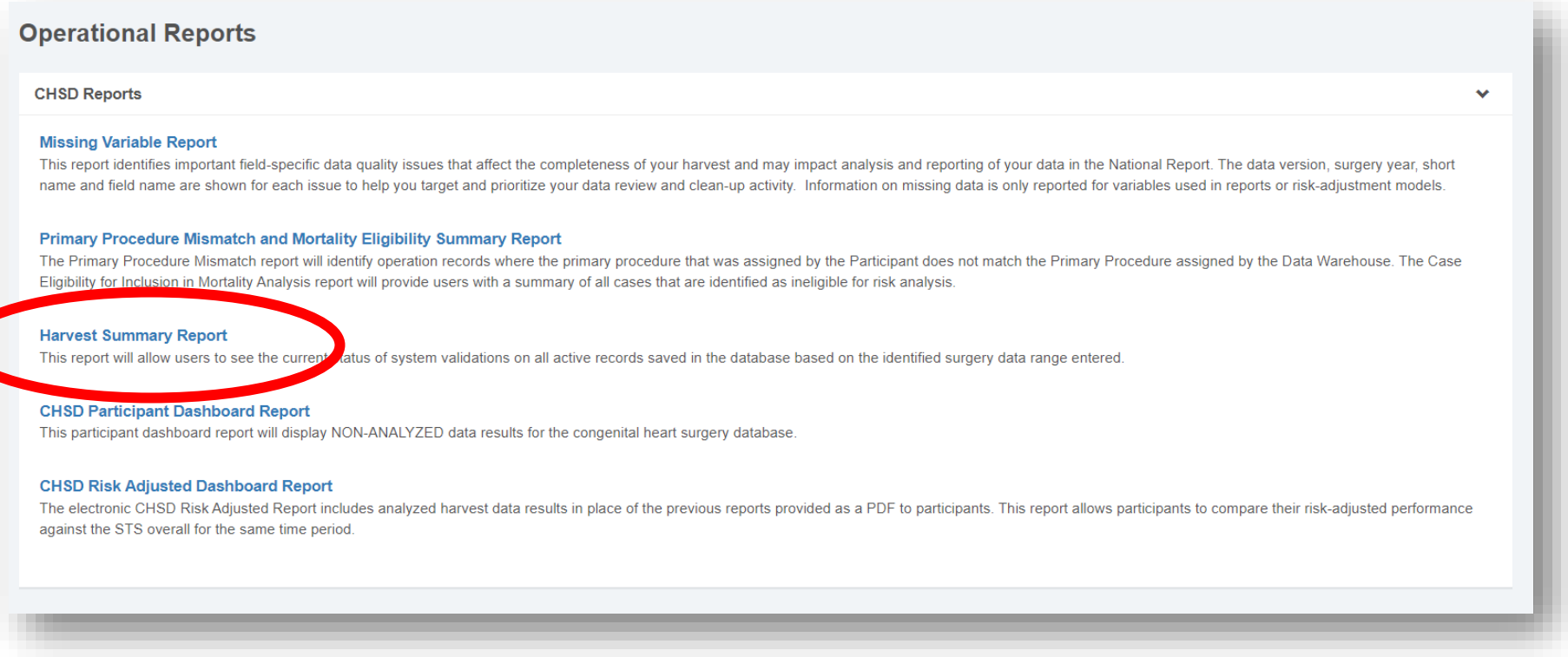


Harvest Review – tips and tricks

Harvest Summary Report

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

4. RESUBMIT



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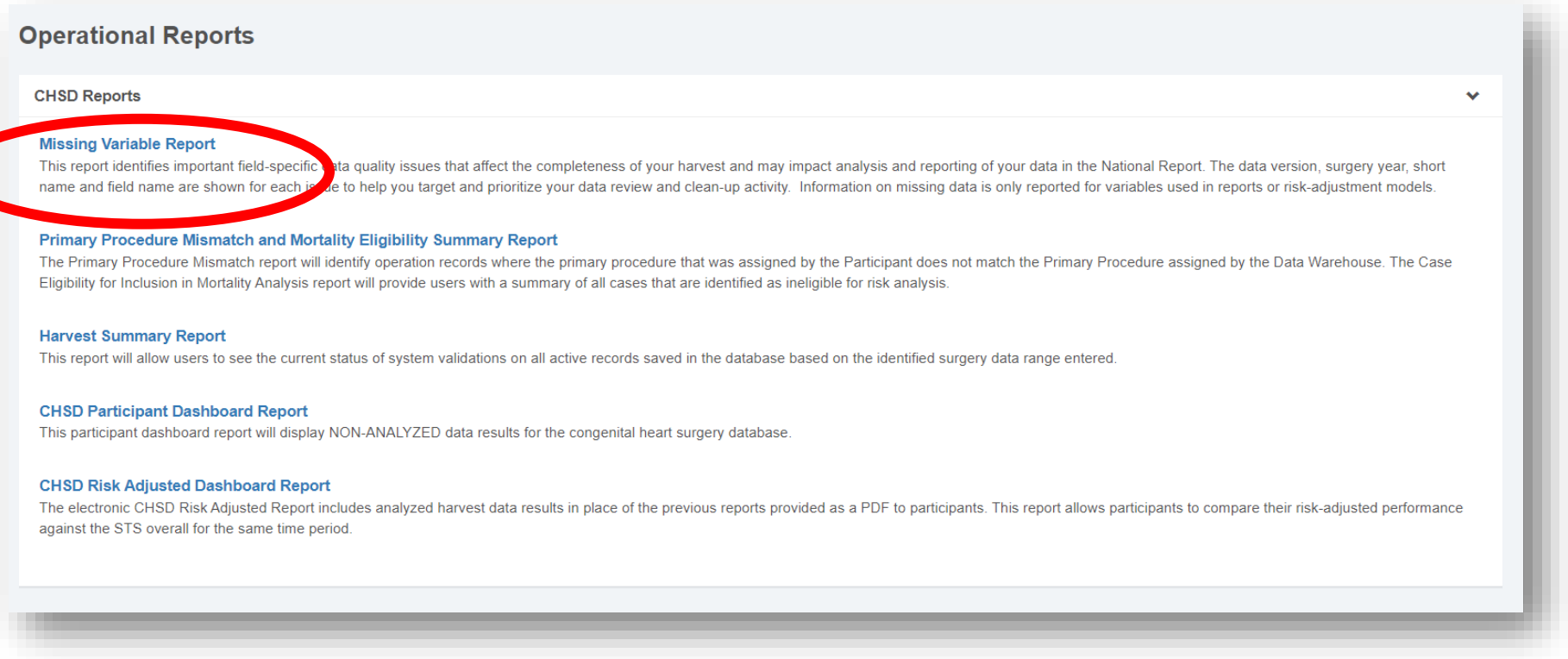
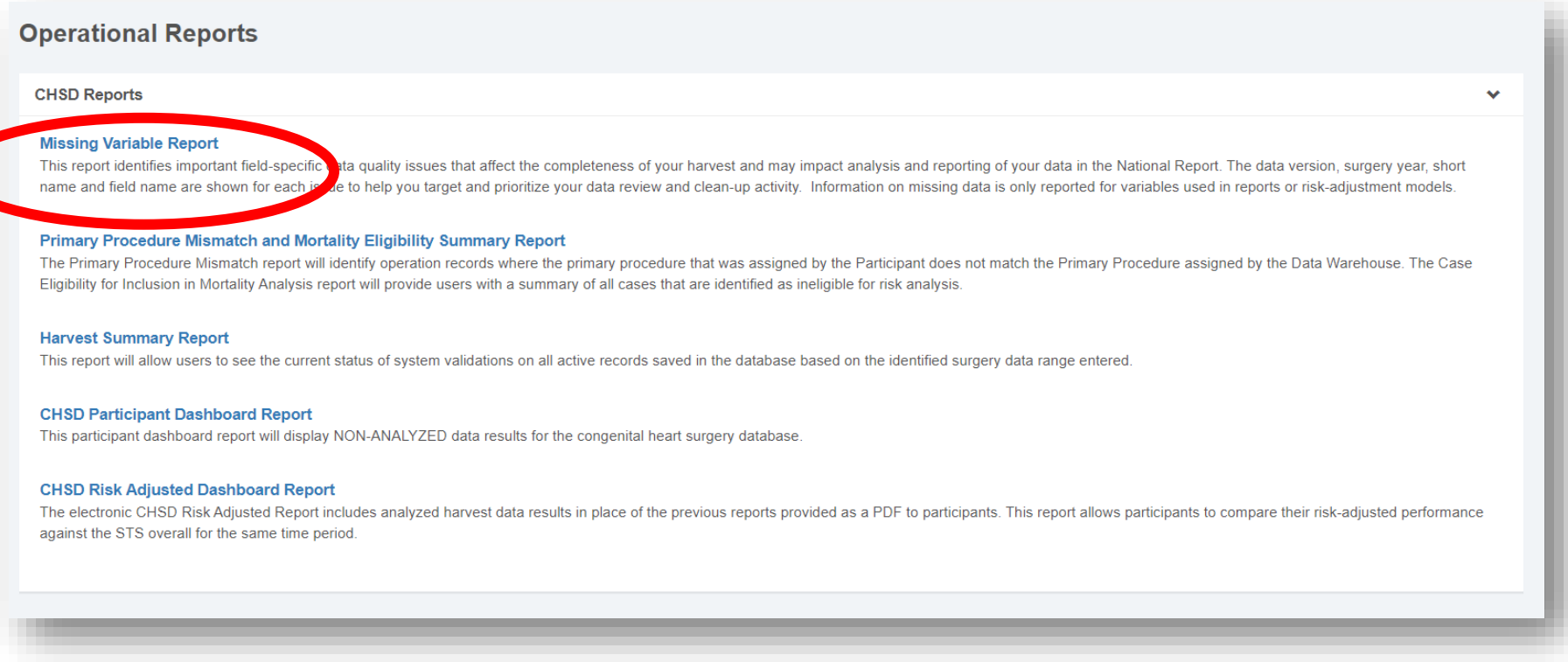


Harvest Review – tips and tricks

Missing Variable Report

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

5. RESUBMIT



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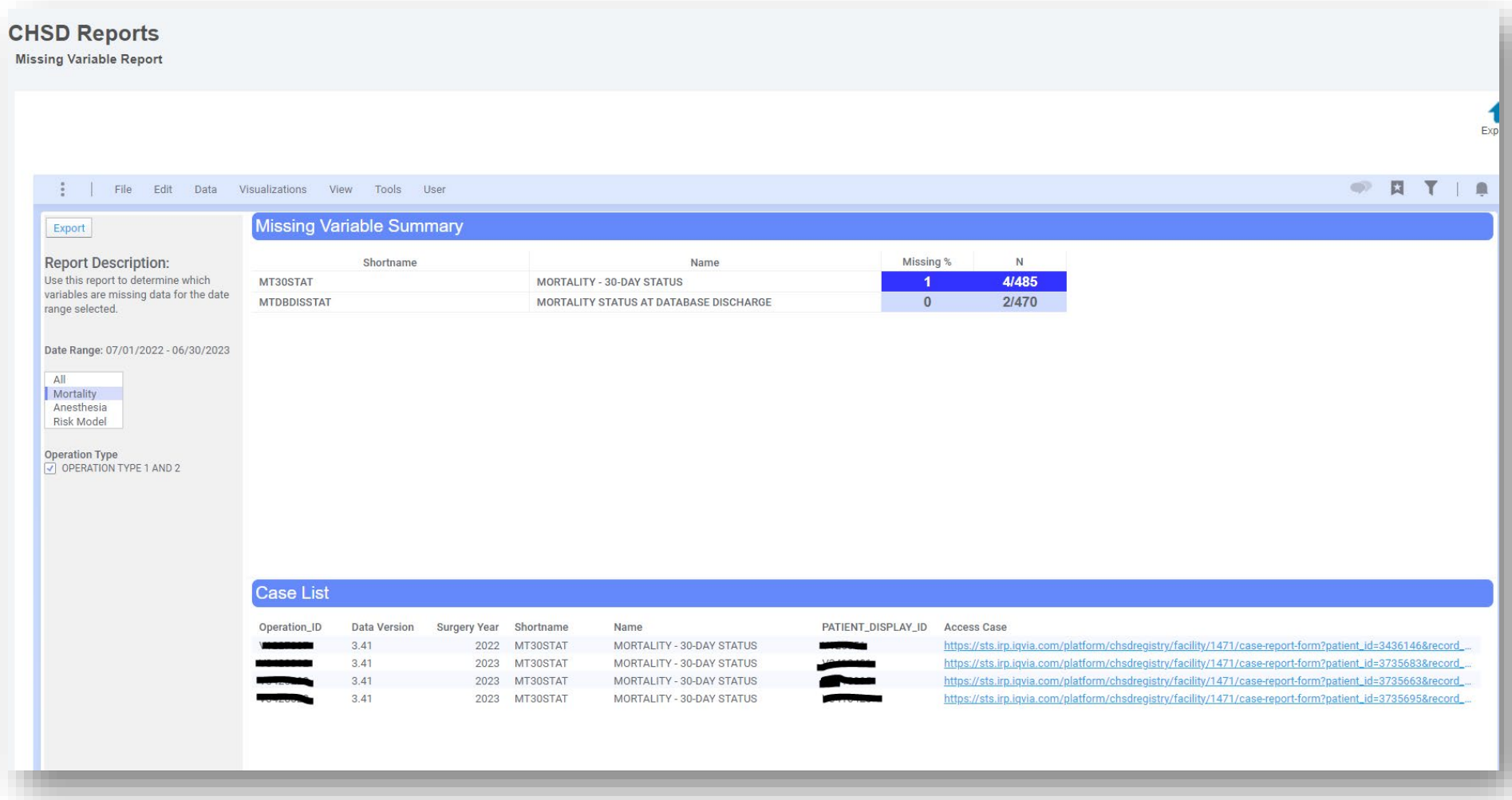

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In Summary

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

Leigh Ann Jones, STS National Database Manager, Congenital and General Thoracic	Tech Support Analysis Report/Data Submission Questions	Database Operational Questions
• Ljones@sts.org	• STSDB_helpdesk@sts.org	• STSDB@sts.org

Congenital STS Database Consultants

- Leslie Wacker lwacker@sts.org
- Chasity Wellnitz cwellnitz@sts.org

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THANK YOU FOR JOINING!