

# Society of Thoracic Surgeons

Intermacs/Pedimacs  
Reporting Webinar

April 15, 2021



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

# The Team

Kathryn Hollifield: STS National Database Manager-Intermacs/Pedimacs

Patricia Potter: Intermacs Data Warehouse Quality Manager

Jeanne Anne Love: Intermacs Data Warehouse, Patient Management Director and Data Quality advisor

Ryan Cantor: PhD, Statistician, Director of Reporting at the Intermacs DCC

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John Pennington: Intermacs Data Warehouse Senior Data Manager

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Leigh Ann Jones: STS National Database Manager-CHSD/GTSD

Carole Krohn: Sr. Clinical Manager, STS National Database



# Outline

- Review of STS-INTERMACS Reporting / Data Materials
- 2020 Q4 Report Additions
- Longer Term Plans
  - How to consolidate reporting that still meets sites needs



## Reports

### Data Quality Report

Not Available

Click the link above to access your site's Data Quality Report. The Data Quality Report provides each hospital an up to date snapshot of key data they have entered into Intermacs. The Data Quality Report provides lists of inconsistencies and improbable values that occur in the data. The Data Quality reports are used as an auditing tool and are distributed quarterly through the file delivery system. This feature is only available to Site Administrators.

### Quality Assurance Report

Not Available

Click the link above to access your site's Quality Assurance Report. The Quality Assurance Report contains information from your site compared to the overall Intermacs experience. To facilitate this comparison only primary prospective patients are analyzed. The Quality Assurance Report facilitates the refinement of patient selection to maximize outcomes with current and new device options. The Quality Assurance Report is distributed quarterly through the file delivery system. This feature is only available to Site Administrators.

### Live Data Download

Available 


Click the link above to download live data you have entered into the Web-Based Data Entry System by form. Each form is available in Excel format. Forms available include: Screening Log Enrolled Screening Log Excluded, Demographics, Pre-Implant, Implant, Implant Discharge, Rehospitalization, Major Infection, Major Bleeding, Neurological Dysfunction, Device Malfunction, Additional Adverse Events, Death, One Year Post Recovery, Transfer, Withdraw Consent. This feature is available to all users.

### Site Research Datasets (SAS)

Not Available

Click the link above to access your site's SAS datasets. The SAS datasets link all forms into 4 research datasets that contain derived intervals and indicators, integrity checks, recodes, and completed/validated forms. The SAS datasets are for research purposes and are distributed quarterly through the file delivery system. This feature is only available to Site Administrators.

### Customized Cohort Report

Available 


Click the link above to select a single cohort, subgroups within your site, or comparison against an equivalent Intermacs cohort. Each report can be generated in PDF format with frequencies and bar charts. The customized cohort reports allow you to explore patient characteristics.

### Outcome Analytics

Not Available

Click the above link to generate Kaplan-Meier curves, competing outcomes, adverse event rates, or other outcome analytics on your selected cohort.

### Patient Management

Available 

Click the link above to generate a summarized visit report on a single patient or compare variables such as VAS Score, Creatinine, and Six Minute Walk over time through scatter plots.










# 2020 Q4 Report Additions

## Add ALL Patients reports

- Many requests for reports that include ALL centers patients
- Added new versions of the reports:
  - Cumulative – All Patients
  - Recent – All Patients



# 2020 Q4 Site Report Packet

-  Dear STS InterMACS Site Administrator.docx
-  INTERMACS Data Quality Report (2021-03) - HOSPX-9999.pdf
-  Read Me Document.docx
-  STS INTERMACS - Quarterly Quality Assurance Report (2020 Q4) - HOSPX-9999 - Cumulative - All Patients.pdf
-  STS INTERMACS - Quarterly Quality Assurance Report (2020 Q4) - HOSPX-9999 - Cumulative - Primary Patients.pdf
-  STS INTERMACS - Quarterly Quality Assurance Report (2020 Q4) - HOSPX-9999 - Cumulative - Prior VAD Patients.pdf
-  STS INTERMACS - Quarterly Quality Assurance Report (2020 Q4) - HOSPX-9999 - Recent - All Patients.pdf
-  STS INTERMACS - Quarterly Quality Assurance Report (2020 Q4) - HOSPX-9999 - Recent - Primary Patients.pdf
-  STS INTERMACS - Quarterly Quality Assurance Report (2020 Q4) - HOSPX-9999 - Recent - Prior VAD Patients.pdf



# Report Version Details

- Report Coverage
  - **Cumulative** - includes patients enrolled throughout the entire registry and is intended to provide a comprehensive set of long term outcomes
  - **Recent** - limited to patients enrolled within the last rolling 6 quarters and provides information on contemporary patients.
- Patient Type
  - **All Patients** – all patient enrolled in INTERMACS
  - **Primary Patients** – first VAD in INTERMACS, NO prior VAD reported on pre-implant form (LVAD/RVAD/TAH)
  - **Prior VAD patients** – first VAD in INTERMACS, prior VAD reported on pre-implant form (LVAD/RVAD/TAH) – currently any type of prior device counts



# 2020 Q4 Report Addition

## Added Implant Year to Exhibit 49

- Implant year added to Exhibit 49: Patients Implanted at your Center but Excluded from this Analysis
  - Help track patients inclusions





# 2020 Q4 Report Addition

## Death on a Device reporting

- Adjustment to Death on a Device reporting
  - Previous
    - patients are censored at cessation of support (explant or turned off for any reason)
    - Censored = unobserved event
    - Some cessation of support is actually withdraw of support
  - Update
    - Patients with cessation of support but have a reported death date on the same or next day -> reported as death on a device for both Kaplan-Meier Survival and Competing outcomes



# 2020 Q4 Report Addition

## Packets Zipped with 7-Zip

- 7zip was used instead of WinZip to prepare QA zip packets and site dataset packets, this change was mandated by UAB IT
- So far we have not had any issues with sites being able to open their zips but please contact us if your are having problems retrieving and opening your report



# Longer Term Plans for Report Design Process

- Currently
  - pro – A LOT of great information
  - con – Too much information? Which measures are the best to use? How to best consolidate into a core set of comparisons?
- Ideally
  - Continual collection of report edit ideas
  - Annual Edits, Review and Approved by STS Leadership, Targeted for Benchmarking
  - Reduced QA report content
  - Expanded Analytic Tools
    - Outcome Analytic Tool (under construction) may take the place of some of the detailed comparison in the current report collection
    - Outcome Dashboards



# We Need Feedback!

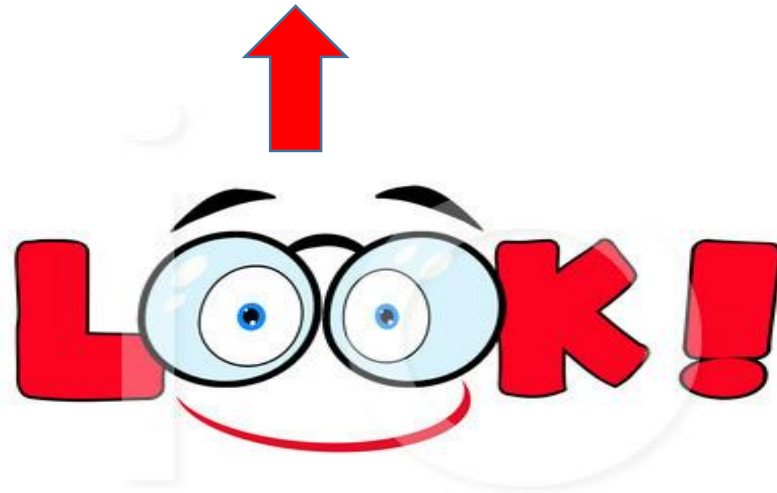
- What exhibits are most helpful / what can be removed
- Ideas on new information and how to represent the data that will be useful to your site
- What top 10 numbers would be useful sites, especially if you didn't have to retrieve them from several reports
  - 1 year Survival on a device % vs aggregate
  - 1 year CO estimates site vs aggregate (% still alive on device, % transplant, %died on device, % cessation of support)
  - 6m freedom from event estimate from top 5 Aes...

**As new reports are developed, this webinar forum can provide useful discussion / feedback**



# Intermacs & Pedimacs Resources:

[INTERMACS-Reports@uabmc.edu](mailto:INTERMACS-Reports@uabmc.edu)



# Thank you for joining!

Next Intermacs/Pedimacs Webinars

April 28, 2021 @ 1 pm CT

Next Intermacs/Pedimacs Reporting Webinar:

July 15, 2021 @ 2 pm CT

