

Society of Thoracic Surgeons

Intermacs User Group Webinar

March 30, 2022



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

The Intermacs Data Warehouse Team

Rama Rudraraju, PhD, Director of Programming, Intermacs Data Warehouse

Ryan Cantor, PhD, Statistician, Director of Reporting, Intermacs Data Warehouse

Patricia Potter, BSN, RN, Intermacs Data Warehouse

Chase Lenderman, KIRSO Data Analyst

John Pennington, MSHI, Intermacs Data Warehouse

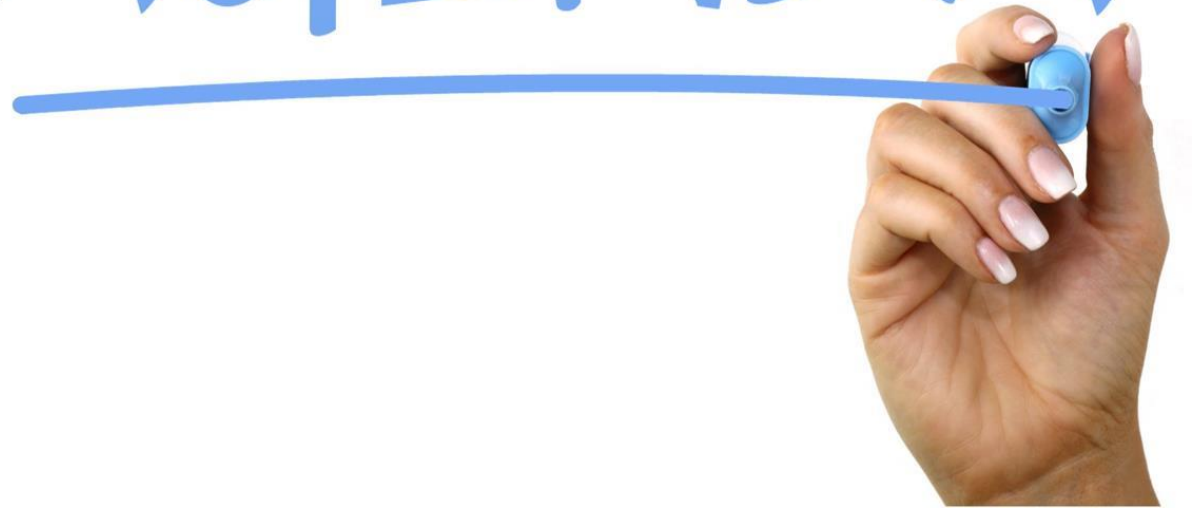


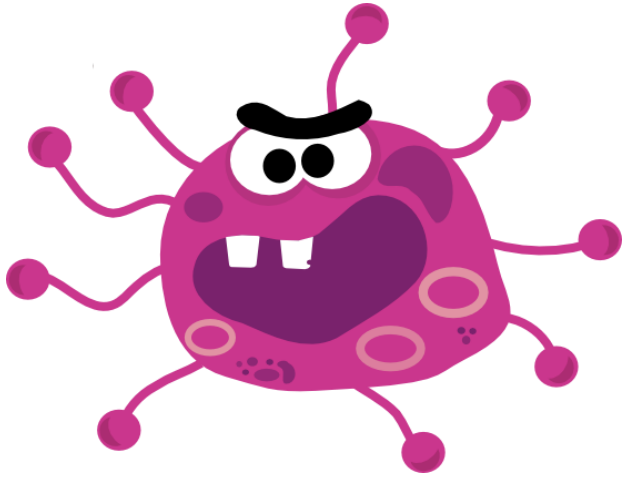
Dashboard Training Webinar

- Welcome and Introductions

- Q and A :
Intermacros
Dashboard
Interactive Tool

AGENDA





Covid -19 Update

- Tele visits encouraged
- QOL surveys may be done over the phone or by mail
- If follow-up visits are done outside of the visit window, please enter the last date of the follow-up date visit into the database
- **Sites have 30 days after the follow-up window due date to enter the data for the C-19 exception**



Contact Information

Kathryn Hollifield, BSN, RN STS National Database Manager, Intermacs and Pedimacs

- khollifield@sts.org

Patricia Potter, BSN, RN, Intermacs Data warehouse Clinical Informatics

- pkpotter@uabmc.edu

Database Operational Questions

- intermacsfaq@sts.org

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ALABAMA AT BIRMINGHAM.

Dashboard Demo

March 30, 2022

Rama Rudraraju, PhD

Director of Research and Development

Kirklin Institute for Research in Surgical Outcomes

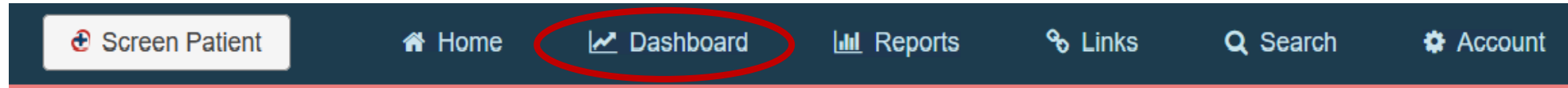




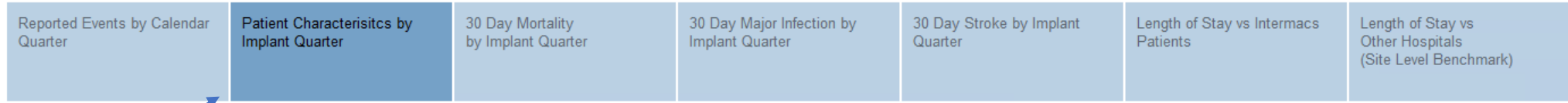
Dashboard

- Goal
 - Provide a visual summary of data entered at a hospital
 - Dashboard can be used to
 - Compare hospital data vs all Hospitals (participating in InterMACS)
 - Quality Assurance (QA)
 - Benchmarking

Background



- Accessing the Dashboard
 - Available on the main navigation menu
 - Who gets access
 - All users at active sites
- HOSPX – Demo hospital
 - Contains patients selected from hospitals at random



1. Sections

Patient Characteristics by Implant Quarter

2. Filters

- Age Group**
- (All)
 - 19-39 yr
 - 40-59 yr
 - 60-79 yr
 - 80+ yr

- Gender**
- (All)
 - Female
 - Male

- Race**
- (All)
 - African-American
 - Am. Indian or Alaska Native
 - Asian
 - Hawaiian/Pacific Islander
 - Other
 - White

- Device Type**
- (All)
 - BiVAD
 - LVAD - HM2
 - LVAD - HM3
 - LVAD - HVAD
 - LVAD - other
 - RVAD
 - TAH

- Patient Profile**
- (All)
 - 1 Critical Cardiog. Shock
 - 2 Progressive Decline
 - 3 Stable but Inotrope Dependent
 - 4-7 Resting Symptoms or Less Sick

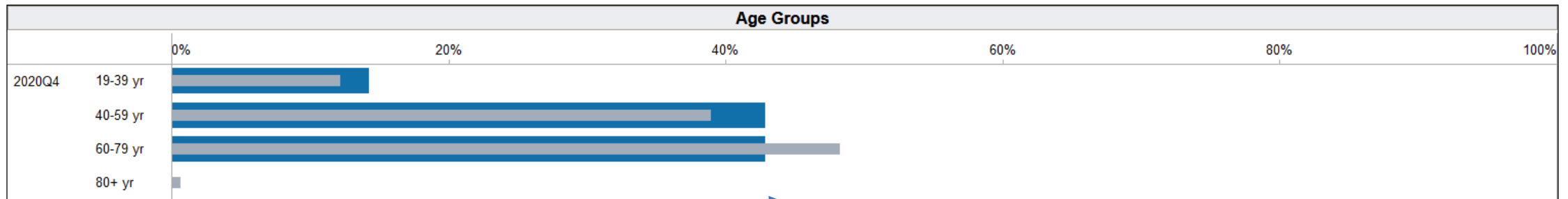
- Device Strategy**
- (All)
 - Bridge to Candidacy
 - Bridge to Transplant
 - Destination Therapy
 - Other

3. Legend: Hospital and Intermacs

Center Code

- HOSPX
- INTERMACS

Data Source: Intermacs Research Build



4. Plots



Sections

Reported Events

Patient Characteristics

30 Day Adverse
Event Percentages

Metrics





Sections

Reported Events

Patient Characteristics

30 Day Adverse
Event Percentages

Metrics





Reported Events

- Why
 - Snapshot of what is happening at your hospital
 - Make sure all the data is accounted for
- What
 - An accounting of events entered at your site in each **calendar quarter**
 - If I reported 3 infection events occurring in Jan 2021, they show up under 2021 Q1
 - Counted by **event date**
- Details
 - Data source: Updated nightly



Demo

- Reported Events
 - As a User, I want to see the number of Intermacs patients at my hospital in the last 4 quarters
 - As a User, I want to see the number of infections entered at my hospital



Sections

Reported Events

Patient Characteristics

30 Day Adverse
Event Percentages

Metrics





Patient Characteristics

- Why
 - Provide Visual Summary of patient characteristics
 - Compare Site vs Intermacs
 - Look at trends overtime
- What
 - An accounting of patient characteristics in each calendar quarter
 - If I enter 3 patients whose first implant date falls in Jan 2021, they will show up under 2021 Q1
 - Counted by **first implant date**: Patients are grouped by the quarter in which they receive their first implant
- Details
 - Data source: Updated monthly



Demo

- Patient Characteristics display
 - As a User, I want to see if my hospital is doing more destination therapy when compared to InterMACs ?
 - As a User, I want to see trends for destination therapy patients at my hospital



Sections

Reported Events

Patient Characteristics

30 Day Adverse
Event Percentages

Metrics



30 Day Adverse Event Percentages

- Why
 - Provide Visual Summary of specific adverse event trends
 - Compare Site vs Intermacs
- What
 - Percentage of patients that experience a certain adverse event within 30-days
 - If I reported 3 stroke events on patients that had their first implant in Jan 2021, they will show up under 2021 Q1
 - Counted by **first implant date**: Patients are grouped by the quarter in which they receive their first implant
 - Outcomes are counted if they occur **within 30-days** of the patients first implant
- Details
 - Data source: Updated monthly



Demo

- As a User, I want to see the mortality percentage for destination therapy patients at my hospital
- As a User, I want to compare stroke percentage for destination therapy patients at my hospital compared to overall Intermacs



Sections

Reported Events

Patient Characteristics

30 Day Adverse
Event Percentages

Metrics



Metrics

- Why
 - Provide Visual Summary of calculated outcomes trending over time
 - Compare Site vs Intermacs
- What
 - Post-op Length of Stay (LOS) for patients discharged on a device
- Comparison groups
 - Patients at the site compared to aggregate of all patients in Intermacs
 - LOS at my site compared to overall Intermacs
 - Comparing metric at the site to the same metric calculated at other sites
 - What is 75th percentile, 90th percentile for LOS among all Intermacs sites
- Details
 - Data source: Updated monthly



Demo

- Length of Stay (LOS)
 - As a User, I want to look at the trends for LOS for DT patients at my hospital
- LOS overall
 - As a User, I want to find the 25th, 75th, 90th percentile for LOS at all sites in Intermacs, and see where my site stands
 - As a User, I want find out if LOS percentiles are changing in all Intermacs sites for Critical cardiogenic shock patients



Export

- PDF
- Powerpoint

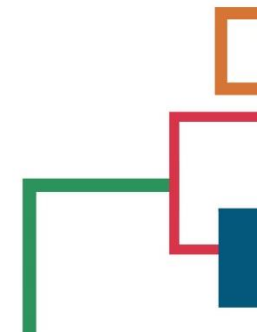


Conclusion

- Provide a visual summary of data entered at a hospital
- Dashboard can be used to
 - Compare hospital data vs all Hospitals (participating in InterMACS)
 - Quality Assurance (QA)
 - Benchmarking
- Other Services
 - Registry software
 - Data analytics
 - Statistics
 - Machine Learning

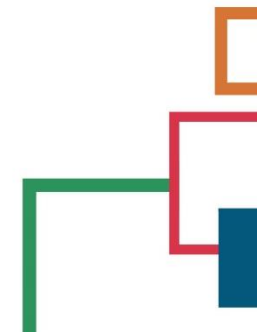


Dashboard

- Usage statistics
 - Number of hospitals that viewed dashboard at least once: 168
 - Number of hospitals that viewed more than 3 times: 137
 - Survey
- 



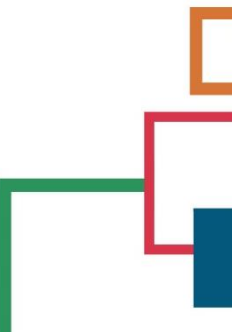
KM tool

- Usage statistics
 - Number of hospitals that viewed KM tool at least once: 53
 - Number of hospitals that viewed KM tool more than 3 times: 38
- 



Dashboard and KM Tool Usage Scenarios

- Scenarios for using of the dashboard or the KM tool
 - Share at upcoming webinar





Questions

Resources

- [STS National Database Webpage](#)
- [Intermacs and Pedimacs Webpage](#) (All things Intermacs and Pedimacs, Database user guides, Data collection forms, QOL surveys, FAQs, V 6 Training Video, Research opportunities)
- Intermacs-reports@uabmc.edu (Reporting questions, Uploader, DQR, Missing Variable, Dashboard, Password and Login)
- [Updated Participant Contact Form](#)
- [DQ Report Validation Form](#)



Upcoming Intermacros Webinars

Dashboard Analytics and Reporting Webinar

- April 21, 2022 @ 2 pm CT.



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!

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THANK YOU FOR JOINING!