Data in → Data Out

How to utilize your data and make it work.

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No disclosures
Does data make you happy?
This is what it is all about …. 
Data in – but what next

• Make sure you are comfortable with the system

• Make sure you are friends with your IT team – (food, compliments, teamwork)
  • Try to limit your “emergency requests”
  • My saying “there is rarely a data emergency” it usually your “I did not ask earlier” emergency

• The more you work with the system the better it will be get

• STS with EPIC = robust data
Utilizing Reports

Centripetus Web Portal

Welcome - chwatin Sign out | Registry: STS Congenital
Home Registry Utilities Reports Dashboard Support

Patient Search:

Create New Patient

No records to display.

Centripetus Web Portal

Welcome - chwatin Sign out | Registry: STS Congenital
Home Registry Utilities Reports Dashboard Support

Patient Search:

Create New Patient

No records to display.
Centripetus Web Portal

Welcome - chwatrin Sign out Edit My Account | Registry: STS Congenital

Home Registry Utilities Reports Dashboard Support

Centripetus Reports

Report Types

To open a report choose a report type from the list below and click 'Preview Report'

Morbidity and Mortality

Surgeon

Start
Date
End
Date

Preview Report

Home Page
This image shows a screenshot of the Centripetus Web Portal, specifically the 'Reports' section. The portal is associated with the Registry: STS Congenital. The screen displays options including "Data Quality Assurance (DQA)", "Clinical Quality Indicator (CQI)", and "Case Summary". There is also a section for creating a new patient with fields for Patient ID, MRN, DOB, SSN, and Previous Full Name. The bottom of the screen shows the page size options and page navigation. The logo of Baylor College of Medicine (BCM) and Texas Children's Hospital is visible at the bottom.
Now you have the data.....
How and who do you present it to?
What kind of reports can you generate?

- Daily report that shows:
  - Cases from previous day
  - Cases from one year ago
  - Cases from two years ago
  - Mortalities
  - Cases missing 30 day follow up
  - Cases with issues such as missing a field that is identified
Weekly Reports

- Weekly case report
  - Quality meeting every week for the ICU team to review all surgical admissions and to discuss any issues or concerns
- CV surgery review of their cases
Monthly M&M Meeting

- Monthly meeting with all team members
- Utilizes the STS data to make the slide deck
- Discusses not only morbidity and mortality but also key quality indicators such as:
  - Unplanned operations
  - Length of stay for all patients
  - Length of stay for neonates
  - Length of stay for STAT 5
- Reviews cases by STAT category and reviews in comparison to STS benchmark
- Reviews monthly / yearly / running 4 year
- Identifies any issues for follow up
- End of Year completed for fiscal year and calendar year
## CHSS Monthly Stats

<table>
<thead>
<tr>
<th>Category</th>
<th>By MONTH</th>
<th>YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Operations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neonates (0-30 d)</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Infants (31 d - 1y)</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Children (&gt;1 y - &lt; 18 y)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Adult (18 y + )</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Total CPB cases</strong></td>
<td></td>
<td>40</td>
</tr>
<tr>
<td><strong>Total patients</strong></td>
<td></td>
<td>40</td>
</tr>
<tr>
<td><strong>STS Hospital mortalities</strong></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>Unplanned reoperations</strong></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Rerun to OR for bleeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECMO</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Postoperative Hospital LOS</strong></td>
<td>Median: 7.8</td>
<td>Median: 9.0</td>
</tr>
</tbody>
</table>

This information is privileged and confidential pursuant to Texas Health and Safety Code sections 161.031-161.033 and Texas Occupations Code section 160.007 and/or T.R.C.P.192.5.
## Mortalities by STAT Category
### Jan. 2019 – Sep. 2019 Discharges

The source for the overall hospital data is STAT Index Surg CHD Volume; Data pulled.


<table>
<thead>
<tr>
<th>Primary Procedure</th>
<th>Number of Procedures</th>
<th>Number of Discharge Mortalities</th>
<th>% Mortality</th>
<th>STS 1-Year Benchmark*</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 1</td>
<td></td>
<td></td>
<td></td>
<td>0.4%</td>
</tr>
<tr>
<td>STAT 2</td>
<td></td>
<td></td>
<td></td>
<td>1.4%</td>
</tr>
<tr>
<td>STAT 3</td>
<td></td>
<td></td>
<td></td>
<td>1.8%</td>
</tr>
<tr>
<td>STAT 4</td>
<td></td>
<td></td>
<td></td>
<td>5.8%</td>
</tr>
<tr>
<td>STAT 5</td>
<td></td>
<td></td>
<td></td>
<td>10.8%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>2.5%</strong></td>
</tr>
</tbody>
</table>

* STS definition

The source for the overall hospital data is STAT Index Surg CHD Volume; Data pulled.
Mortalities by STAT Category

<table>
<thead>
<tr>
<th>Primary Procedure</th>
<th>Number of Procedures</th>
<th>Number of Discharge Mortalities</th>
<th>% Mortality</th>
<th>STS 4-Year Benchmark*</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 1</td>
<td></td>
<td></td>
<td></td>
<td>0.4%</td>
</tr>
<tr>
<td>STAT 2</td>
<td></td>
<td></td>
<td></td>
<td>1.5%</td>
</tr>
<tr>
<td>STAT 3</td>
<td></td>
<td></td>
<td></td>
<td>2.1%</td>
</tr>
<tr>
<td>STAT 4</td>
<td></td>
<td></td>
<td></td>
<td>6.3%</td>
</tr>
<tr>
<td>STAT 5</td>
<td></td>
<td></td>
<td></td>
<td>13.9%</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td></td>
<td>2.8%</td>
</tr>
</tbody>
</table>

* Source for STS National Benchmark is Table 1 of the Society of Thoracic Surgeons Data Harvest Report Jan. 2015 to Dec. 2018.

† STS definition
The source for the overall hospital data is STAT Index Surg CHD Volume; Data pulled
Weekly Case Volume
2019 Year to Date vs. 2018

Weekly Case Volume - Thru Sep 2019
c chart
2018-Pre Legacy: UCL = 30.04, Mean = 18.15, LCL = 5.37 (12/31/2017 - 9/23/2018)
2018-Post Legacy: UCL = 32.70, Mean = 19.46, LCL = 6.23 (9/30/2018 - 12/23/2018)
2019-Year to Date: UCL = 35.02, Mean = 21.21, LCL = 7.39 (12/30/2018 - 9/22/2019)

Volume data pulled 10/15/2019.
Focused Data

- Utilizing the data to discuss outcomes with families
- Utilizing the data to make operational decisions
  - Bed utilization
  - Move decisions – decisions
- Ensuring that we have operational support needed
What is next?

• Front Door request system
  • Compliance and HIPPA
  • Ensures that hours of utilization is monitored
  • Helps with duplicated requests

• Data Center
  • STS
  • PC4
  • PAC3
Questions ?