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Mahesh Amin, MD, FACC
Medical Director,
BayCare Cardiovascular Service Line
Agenda

8-8:15am  Welcome and Review of BayCare Outcomes
8:15-9:15am Surgical Management of Atrial Fibrillation with Dr. John Ofenloch and Dr. Andrew Sherman
9:15-10:15am Complex Coronary Interventions with Dr. Parag Patel and Dr. Zaheed Tai
10:15-10:30am Break
10:30-11:30am Ventricular Tachycardia Ablation with Dr. William Stevenson
11:30am-12:30pm Complex Vascular Interventions with Dr. Susan Shafii
12:30-1:15pm Lunch
1:15-2:15pm Diabetes and Heart Disease with Dr. Bruce Bode
2:15-3pm Research Studies with Dr. Mahesh Amin, Dr. Lang Lin, Dr. Leslie Miller, Dr. Joshua Rovin and Dr. Bernardo Stein
Speaker Disclosures

- Dr. Andrew Sherman: Consultant for AtriCure Inc.
- Dr. Zaheed Tai: Speaker's Bureau for Abiomed, Terumo, Boston Scientific, and Philips Medical
- Dr. William Stevenson: Occasional honorarium from Boston Scientific, Medtronic, and Abbott Medical
- Dr. Bruce Bode:
  - Grant/research support from: Astra Zeneca, BI/Lilly, GSK, Janssen, Novo Nordisk, and Sanofi
  - A consultant for: Astra Zeneca, Janssen, novo Nordisk, and Sanofi
  - Speaker’s Bureau for: Astra Zeneca, BI/Lilly, Janssen, novo Nordisk, and Sanofi
- Dr. Leslie Miller:
  - Grant/research support from Athersys, BioCardia, Mesoblast & Merck
  - A consultant for and received financial/material support from Black Beret Life Sciences
  - A major stockholder in Leonhardt Ventures
- Dr. Joshua Rovin:
  - Consultant for: Abbot and Medtronic
  - Speaker’s Bureau for: Abbott and Medtronic

*Planners/speakers disclosed no relevant financial relationships related to the content of these sessions.*
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- Abiomed
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- David Evans, MD
- Jose Gallastegui, MD
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- Phillips Harrington, MD
- James Irwin, MD
- Ghazanfar Khadim, MD
- David Kohl, MD
- Lang Lin, MD
- Kevin Makati, MD
- Leslie Miller, MD
- Vaibhav “AJ” Moondra, MD
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- John Ofenloch, MD
- Philip Ovadia, MD
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- Parag Patel, MD
- Mohan Reddy, MD
- Joshua Rovin, MD
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- Harshinder Singh, MD
- Douglas Spriggs, MD
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- Tim McMahon
- Marianne Mullan

- Jennie Pianka
- Molly Sweeney
- Jordana Taylor
- Genevieve White
- Nanette Wilcox
- Debi Wolf
BayCare Health System

BayCare is a leading not-for-profit health care system that connects individuals and families to a wide range of services at 15 hospitals and hundreds of other convenient locations throughout the Tampa Bay and West Central Florida regions. BayCare also is one of the largest private employers in the area with an estimated $6.62 billion in annual impact on the region and state.
About Us

- Revenue: $4 Billion
- Team Members: 27,600
- Market Share: 36%
- Credit Rating: AA2
By the Numbers - 2017

- **Team Members**: 27,600
- **ER Visits**: 675,645
- **HomeCare Visits**: 858,576
- **Operating Revenue**: $3.9 billion
- **Beds**: 5,240
- **Physicians and Medical professionals**: 380
- **Locations In 4 Counties**: 380
- **Births**: 15,065
- **Discharges**: 176,228
- **Outpatient Surgeries**: 63,165
- **Community Benefit**: $391 million
- **Community Benefit**: 63,165

*Includes employed, credentialed and community-based physicians, and medical professionals (PAs, ARNPs, CRNAs, etc.)*

**Represents unreimbursed costs for traditional charity care, Medicaid and other means-tested programs and unbilled community services**

***Includes beds at St. Joseph’s Hospital Behavioral Health Center and Morton Plant North Bay Hospital Recovery Center**
## Our Network and Hospitals

### Our Network
- BayCare Behavioral Health
- BayCare HomeCare
- BayCare Laboratories
- BayCare Medical Group
- BayCare Outpatient Imaging
- BayCare Surgery Centers
- BayCare Urgent Care

### Our Hospitals

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Founded</th>
<th>Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mease Countryside Hospital</td>
<td>1985</td>
<td>311</td>
</tr>
<tr>
<td>Mease Dunedin Hospital</td>
<td>1937</td>
<td>120</td>
</tr>
<tr>
<td>Morton Plant Hospital</td>
<td>1916</td>
<td>613</td>
</tr>
<tr>
<td>Morton Plant North Bay Hospital</td>
<td>1965</td>
<td>150</td>
</tr>
<tr>
<td>St. Anthony’s Hospital</td>
<td>1931</td>
<td>393</td>
</tr>
<tr>
<td>St. Joseph’s Hospital</td>
<td>1934</td>
<td>465</td>
</tr>
<tr>
<td>St. Joseph’s Children’s Hospital</td>
<td>1990</td>
<td>207</td>
</tr>
<tr>
<td>St. Joseph’s Women’s Hospital</td>
<td>1976</td>
<td>108</td>
</tr>
<tr>
<td>St. Joseph’s Hospital-North</td>
<td>2010</td>
<td>108</td>
</tr>
<tr>
<td>St. Joseph’s Hospital-South</td>
<td>2015</td>
<td>114</td>
</tr>
<tr>
<td>South Florida Baptist Hospital</td>
<td>1953</td>
<td>147</td>
</tr>
<tr>
<td>Winter Haven Hospital</td>
<td>1926</td>
<td>458</td>
</tr>
<tr>
<td>Winter Haven Women’s Hospital</td>
<td>1987</td>
<td>61</td>
</tr>
<tr>
<td>Bartow Regional Medical Center</td>
<td>1925</td>
<td>72</td>
</tr>
<tr>
<td>BayCare Alliant Hospital</td>
<td>2008</td>
<td>48</td>
</tr>
</tbody>
</table>
BayCare’s Economic Impact

Economic Impact
$6.62 billion

Employees
27,600

By County
- Pinellas: $2.6 billion
- Pasco: $263 million
- Hillsborough: $2.2 billion
- Polk: $541 million

By Division
- Hospitals
- BMG
- Ambulatory
- Patient Care and Support Services
- $5.21 billion
- $169 million
- $469 million
- $644 million
- $129 million
- $169 million
- $129 million
Community Benefit - $391 Million in 2017

- Medicaid/Income-Based Programs – Underinsured patients with some insurance but not enough to cover their medical bills: $246,000,000
- Charity Care – Underinsured and uninsured patients with no insurance: $121,000,000
- Unbilled Community Services – Health professional education, community health services, cash and contributions to community groups: $24,000,000

Unbilled Community Services - Health professional education, community health services, cash and contributions to community groups
Mission

Improve the health of all we serve through community-owned services that set the standard for high-quality, compassionate care.

Vision

BayCare is an extraordinary team leading the way to high-quality care and personalized, customer-centered health.

Values

The values of BayCare are trust, respect, and dignity, and reflect our responsibility to achieve health care excellence.
Recognitions

- 2018 Fortune 100 Best Companies To Work For
- 2017 Best Workplaces Great Place To Work For Millennials
- 2017 Best Workplaces Great Place To Work In Health Care
- 2017 Best Workplaces Great Place To Work For Women
- 2017 Tampa Bay Times Top Work Places
- World At Work 2017 Seal of Distinction
- 2017 Becker’s Hospital Review 150 Great Places To Work
- 2017 Training Top 125
The Cardiovascular Service Line has been structured to encourage collaboration of multidisciplinary teams across BayCare to manage:

- Coronary Artery Disease
- Heart Failure
- Structural Heart and Valve Disease
- Arrhythmias
- Pediatric and Congenital Heart Disease
- Diseases of the Aorta
## Cardiovascular Surgery

### 2017 Open Heart Surgery Breakdown

<table>
<thead>
<tr>
<th>Service</th>
<th>BayCare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical Valve</td>
<td>551</td>
</tr>
<tr>
<td>Isolated CABG</td>
<td>692</td>
</tr>
<tr>
<td>Other</td>
<td>211</td>
</tr>
</tbody>
</table>
## 2017 Surgical and Transcatheter Valve Volume

<table>
<thead>
<tr>
<th>Valve Type</th>
<th>BayCare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aortic Valve</td>
<td>282</td>
</tr>
<tr>
<td>Mitral Valve</td>
<td>214</td>
</tr>
<tr>
<td>Tricuspid Valve</td>
<td>55</td>
</tr>
<tr>
<td>Transcatheter Valve (Aortic and Mitral)</td>
<td>393</td>
</tr>
</tbody>
</table>
Congenital Heart Surgical Volume

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>235</td>
</tr>
<tr>
<td>2016</td>
<td>255</td>
</tr>
<tr>
<td>2017</td>
<td>221</td>
</tr>
</tbody>
</table>

BayCare
## Congenital Heart

### Percent of Operative Mortality by Patient Group

<table>
<thead>
<tr>
<th>Patient Group</th>
<th>BayCare</th>
<th>STS Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 1</td>
<td>0%</td>
<td>0.4%</td>
</tr>
<tr>
<td>STAT 2</td>
<td>1.1%</td>
<td>1.6%</td>
</tr>
<tr>
<td>STAT 3</td>
<td>2.0%</td>
<td>2.3%</td>
</tr>
<tr>
<td>STAT 4</td>
<td>7.6%</td>
<td>6.4%</td>
</tr>
<tr>
<td>STAT 5</td>
<td>7.7%</td>
<td>14.6%</td>
</tr>
</tbody>
</table>

BayCare
### Congenital Heart

#### Median Length of Stay (LOS) by Patient Group

<table>
<thead>
<tr>
<th>Patient Group</th>
<th>BayCare</th>
<th>STS Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 1</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>STAT 2</td>
<td>4</td>
<td>21</td>
</tr>
<tr>
<td>STAT 3</td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>STAT 4</td>
<td>10</td>
<td>27</td>
</tr>
<tr>
<td>STAT 5</td>
<td>27</td>
<td>45</td>
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</table>
# Cardiac Catheterization Lab Volume

<table>
<thead>
<tr>
<th>Volume</th>
<th>BayCare</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI</td>
<td>5,262</td>
</tr>
<tr>
<td>Total Peripheral Vascular Intervention</td>
<td>1,797</td>
</tr>
<tr>
<td>Diagnostic Cath Lab</td>
<td>11,936</td>
</tr>
</tbody>
</table>
### STEMI

<table>
<thead>
<tr>
<th></th>
<th>BayCare</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEMI Volume</td>
<td>614 patients</td>
</tr>
<tr>
<td>Median time to immediate PCI for STEMI patients</td>
<td>68 min</td>
</tr>
<tr>
<td>Proportion of STEMI patients receiving immediate PCI within 90 minutes</td>
<td>93.9 %</td>
</tr>
<tr>
<td>Procedures</td>
<td>BayCare</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Initial Generator</td>
<td>451</td>
</tr>
<tr>
<td>Generator Change</td>
<td>298</td>
</tr>
<tr>
<td>Generator Explant</td>
<td>11</td>
</tr>
<tr>
<td>Lead Only</td>
<td>42</td>
</tr>
</tbody>
</table>
# Atrial Fibrillation Ablation

<table>
<thead>
<tr>
<th>BayCare</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>601</td>
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## CMS 30 Day Mortality - O/E Ratio

<table>
<thead>
<tr>
<th>BayCare</th>
<th>2017 Q1</th>
<th>2017Q2</th>
<th>2017Q3</th>
<th>2017Q4</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMI</td>
<td>0.95</td>
<td>0.87</td>
<td>0.79</td>
<td>0.78</td>
<td><strong>0.85</strong></td>
</tr>
<tr>
<td>HF</td>
<td>0.79</td>
<td>0.97</td>
<td>0.69</td>
<td>0.74</td>
<td><strong>0.79</strong></td>
</tr>
<tr>
<td>CABG</td>
<td>1.07</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td><strong>0.21</strong></td>
</tr>
</tbody>
</table>
## CMS 30 Day Readmissions – O/E Ratio

<table>
<thead>
<tr>
<th>BayCare</th>
<th>2017 Q1</th>
<th>2017Q2</th>
<th>2017Q3</th>
<th>2017Q4</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMI</td>
<td>1.04</td>
<td>0.90</td>
<td>1.09</td>
<td>1.11</td>
<td>1.04</td>
</tr>
<tr>
<td>HF</td>
<td>0.92</td>
<td>1.05</td>
<td>1.07</td>
<td>1.12</td>
<td>1.04</td>
</tr>
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