Sepsis Wave II

Achieving the Triple Aim in Critical Care Using Advanced IT and Business Strategy
Presenters

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Disclosures: None
Georgia’s needs growing much faster than provider supply

**Patient Population**
The “Over 65’s” projected to increase by 39% in the next 8 years

**Physician Demand**
CCM MDs needed /100,000 population:

Older Georgians require much more CCM service

**Growth Rate by Age Group 2017-2025**

- All GA: 10.71%
- 0-14: 5.02%
- 15-44: 38.63%
- 45-64: 3.02%
- 65+: 9.44%

HRSA, 2006
Physician Gap

Number of CCM physicians / 100,000 population

AMA Masterfile

Angus, 2000
Nursing Gap

Chart 1: National Supply and Demand Projections for FTE Registered Nurses: 2000 to 2020

Source: Bureau of Health Professions, RN Supply and Demand Projections

Chart 5: New Entrants and Losses From the Licensed Pool of RNs for Selected Periods

Source: Bureau of Health Professions, RN Sample Surveys and supply projections.
Dunwoody:
The Clinical Operations Room
eRNs: 24 x 7 x 365
eMDs: nights weekends and holidays

Serving 11 ICUs totalling 132 beds in 5 hospitals
(2 university, 1 hybrid, 2 community)

What we do for colleagues:
• Sentry (alerts)
• Advisor (choices)
• Mentor (newbies)
• Consult (APPs, hospitalists)
And
• Patient Care
  • Tests
  • Treatments
  • Interpretation
  • Counseling
Since 2014: Patients and Staff

In the COR:
88,000 patient days
24,000 unique patients
56,000 eRN hours
12,000 eMD hours

New Hi-Tech Jobs
Preserving Accumulated Wisdom in Aging Bodies
Enables Disabled Workers
What we see:
“Air Traffic Control for the ICU”
Emory eICU patients were compared to those in nine hospitals in our region. An episode of care = hospitalization plus 60 days post discharge.

### Health Care Innovation Awards
- 1 Billion Dollars
- 3000 Applications
- Only 1 first-round award in Georgia... to the Emory program

### Better Health
- Reduction of Mortality
- More patients sent home, not chronic care
- Reduction of 60 day readmission rates

### Better Experience of Care
- Reduction of LOS and
- Higher Patient/Family Satisfaction

### Lower Costs
- Proven Savings
  - $1486/patient episode (federal beneficiary) x 24,000 patients
  - Estimate $33.6 million saved while caring for Georgia’s sickest patients
The SE USA: eICU Hubs and Emory services

Emory is the ONLY eICU Provider in Georgia
There are NO eICU Providers in SC, AL or North FL

Georgia wants more eICU services in all regions
Website: “We are dedicated to delivering technologically advanced medical attention in a respectful, caring environment. Our medical center is equipped with 149 patient rooms.”
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<thead>
<tr>
<th></th>
<th>Pre-eICU</th>
<th>Post eICU</th>
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<tbody>
<tr>
<td><strong>ICU Mortality</strong></td>
<td>8.25</td>
<td>3.79% (54%)</td>
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<tr>
<td><strong>Critical Care ADC</strong></td>
<td>7</td>
<td>11.8 (41%)</td>
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<tr>
<td><strong>Transfers from ICU to outside hospital</strong></td>
<td>8.77</td>
<td>6.15 (30%)</td>
</tr>
<tr>
<td><strong>Medicare Case Mix Index</strong></td>
<td>1.5185</td>
<td>1.5449 (2%)</td>
</tr>
<tr>
<td><strong>ICU LOS</strong></td>
<td>5.1</td>
<td>4.7 (18%)</td>
</tr>
<tr>
<td><strong>ICU ADC</strong></td>
<td>296</td>
<td>318</td>
</tr>
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Emory, Telehealth, Georgia’s Future

<table>
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<tr>
<th>Challenge</th>
<th>Opportunities</th>
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<tbody>
<tr>
<td>Numbers: Too few experts for Georgia’s growing population</td>
<td>• Use of on-site APPs&lt;br&gt;• Remotely supervised by Georgia-licensed experts&lt;br&gt;• As a destination state for aging, meets ↑ demand for immediate access to providers and services</td>
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<td>Time: Hard to staff unsocial hours</td>
<td>• Emory is the global leader “turning night into day”&lt;br&gt;• Attracting professionals to Georgia&lt;br&gt;• Rotating those Georgia professionals overseas</td>
</tr>
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<td>Distance: Rapid access to the best healthcare while remaining close to home</td>
<td>Telehealth industry built on making distance irrelevant: bring the expertise directly to the bedside</td>
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Georgia can lead the nation combining hi-tech with hi-touch care by leveraging telehealth. We can create a new industry, generate new professional employment. Right Care, Right Now, Every Patient, Every Time
THANK YOU!

For More Information

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