

Disclosures

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• 6: The Orthopedic Implant Company(OIC)

The following relationship(s) exist:6) Stock or stock options in a company

Trauma Center Basics

- The American College of Surgeons, recommends having one or two high-level trauma centers for every 1 million people
- There is some variability based on location and injury severity
- Those treated at trauma centers have a 25% higher survival rate compared with those seen in hospitals without those services
 x 2006 New England Journal of Medicine
- Multiple orthopaedic studies have shown that complex injury patterns have better outcomes when treated at trauma centers

Historical Perspective

- Before 2006, trauma centers and emergency rooms were closing across the nation
- There was a shortage of trauma surgeons and orthopaedic traumatologists
- Multiple articles were published documenting the problem and residents were recruited at national meetings
- In response to this, the trauma landscape has changed drastically

The Landscape

- More than 200 trauma centers have opened since 2009 in more than 20 states, and another 75 hospitals are seeking approvals
- States with the greatest number of new centers include Texas, Alabama, Arizona and California.
- The growth reverses more than a decade of closures in the 1990s and early 2000s
- For-profit hospital systems are leading the charge
 - $\circ\,$ HCA has added 20 trauma centers since 2009
 - $\circ\;$ Community Health Systems, added seven trauma centers in the past three years
- $\,\circ\,$ Kaiser is rapidly expanding its trauma network as well

Why is this happening ?		
Supply and Demand Economics		







Hospital Collections

- Vallier et al (JOT, 2008) demonstrated the concepts of an orthopedic charge multiplier & net revenue multiplier
 - For every \$ 1.00 of professional charge, hospital charges \$3.86
 - For every \$ 1.00 of revenue generated by orthopedic trauma surgeon, the hospital generated \$7.81

How Hospital Makes \$ on Trauma \bigcirc

- Trauma activation fees •
- Radiology charges ٠
- Laboratory fees ٠
- Consultations •
- Not all patients are uninsured •

Trauma Contribution at Our Institution		
Total Charges	\$ 77,719,354	
Trauma Activation Fees	\$ 7,420,000	
Xray	\$ 2,424,083	
СТ	\$ 12,638,411	
MRI	\$ 612,480	
Laboratory Fees	\$ 3,400,270	
	 Net Profit \$5.1 Million * Althausen, JBJS 2009 	

Trauma Activation Fees \bigcirc

- A fee charged by accepting hospital to provide initial care for trauma patient
- Common since 2006
- Originally designed to offset underinsured and cover overhead
- Quickly has become an arbitrary number
- USA today published article on activation fees in Florida 9/2012
 - Lawnwood Regional Medical Center in Fort Pierce \$29,000
 Orange Park, \$20,000
 Shands Jacksonville, \$7,000
- Based on this alone, many hospitals see this as a \$ generator and want to become involved

Other Benefits

• Aside from activation fee and treatment revenue, many other economic benefits of a strong trauma program exist which Dr. Hill and Mike Williams will address including:

- \circ Keeping business in the community
- Marketing Implications
- $\circ\,$ Increasing reimbursement due to higher ACS Status
- $\circ\,$ Implications of The Affordable Care Act