Perioperative Surgical Home

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CRASH 2015 - Vail, Colorado

Learning Objectives

• Describe the concept of the Perioperative Surgical Home (PSH)
• Discuss the role of Anesthesiologists in managing PSH
• Recognize value added services that anesthesiologists can provide
• Summarize the work done by the ASA to create a road map for PSH

What is the PSH model?

Patient Centered

Physician led Multidisciplinary

Team based Coordinated Care

Surgery Decision

Discharge

Scheduling

Pre optimization

Post Care

Surgical event

Goals of PSH

• Patient safety
• Efficient, coordinated care
• Better patient outcomes
• Cost effectiveness

Why do we need a PSH?

• Healthcare in the U.S is expensive!

Surgical care accounts for 65% of all hospital expenses
Rising Costs of U.S. Healthcare

Institute for Healthcare Improvement

Current Surgical Care

Current Surgical Care

Added Value

Paradigm Shift

Value in healthcare is measured in terms of patient outcomes achieved per dollar expended.

Reward for:
- Best overall care
- Lowest cost
- Minimize complications

Value based on: $100 + $50

<table>
<thead>
<tr>
<th>Current care</th>
<th>Future models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fragmented care</td>
<td>Collaborative care</td>
</tr>
<tr>
<td>Discounted Fee for Service</td>
<td>Bundled payments</td>
</tr>
<tr>
<td>Volume based reimbursement</td>
<td>Value based reimbursement</td>
</tr>
<tr>
<td>Isolated patient files</td>
<td>Integrated electronic medical records</td>
</tr>
<tr>
<td>Focus on procedure</td>
<td>Focus on triple aim</td>
</tr>
<tr>
<td>Revenue driven</td>
<td>Outcomes driven</td>
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Implementation of a Total Joint Replacement-Focused Perioperative Surgical Home: A Management Case Report

Leslie Garzon, MD, Ran Schneidkopf, MD, MDs,† Sheonaan Valharria, MD, MBA.† Branton Alexander, MDs, John Siebold, MD, M.D.,* Matthias Canio, MD, PhD.,* and Zinn Klein, MD, MBA.

Anesthesia & Analgesia 2014; 118:1081-9

Preoperative Care
- Early Anesthesia intervention
- Shared decision making
- Comprehensive preoperative evaluation
- Patient education and expectation management
- Tailored medical optimization

Intraoperative Care
- Standardized protocols for anesthesia care
- Optimal hemodynamic management and fluid therapy
- Infection prevention strategies
- Multimodal pain management

Postoperative Care
- Targeted recovery plan
- Early intervention for deviation from recovery goals
- Nutrition management
- Early removal of drains/catheters
- Early ambulation, PT/OT
- Multimodal analgesia

Post Discharge Care
- Personal recovery pathway
- Timely return to normal activity & work
- Early remote follow up (telephone/telemedicine)
- Physical therapy
- Home health, wound management

Lean Six Sigma Training

Team Members
- Anesthesiologists
- Surgeons
- Nurse managers
- Hospitalists
- Pain Management
- Pharmacy
- Respiratory Therapy
- PT/OT
- Discharge planning
- Quality/safety reps
- Data analysts
- Social work

Chatterjee, Debnath, MD
Perioperative Surgical Home
Outcomes data

Operative Outcomes

<table>
<thead>
<tr>
<th></th>
<th>Total Hip</th>
<th>Total Knee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median LOS</td>
<td>3 days</td>
<td>3 days</td>
</tr>
<tr>
<td>ED visit &lt;30 days</td>
<td>3.9%</td>
<td>4.2%</td>
</tr>
<tr>
<td>Hosp readmission</td>
<td>0%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

92% on-time starts
1 case cancelled: 0.7%

Safety Outcomes
- 30-day mortality - 0.0%
- Major complications - 0.0%
- Minor complications - 10.5%
- SCIP indicators - 100%

PSH at UAB

The Perioperative Surgical Home: how can it make the case so everyone wins?

"Perioperativist"

How PSH Aligns with Triple Aim
- Early and continued patient engagement
- Optimal pre-op testing and preparation
- Intraoperative efficiency
- Improved patient satisfaction
- Improved clinical outcomes and fewer complications
- Application of evidence-based principles
- Lower cost for physician preference items
- Post-procedure care initiatives
- Care co-ordination and transition planning

Cost Savings of PSH
- Reduces variability of cost
- Reduced preoperative testing
- Preoperative optimization reduces LOS
- Intraoperative efficiency
- Decreases potentially avoidable complications
- Decreases rework, including readmissions
- Standardization of Physician Preference Items decreases costs

What is our role?
- Uniquely qualified to lead the PSH
- No one knows the perioperative practice better
- Leaders in patient safety
- Medical knowledge that crosses all disciplines, focused on the impact of the surgery
- Best way to demonstrate the ‘added value’ we provide beyond surgical anesthesia

What is our role?
- Several leadership roles
- Best positioned to facilitate
  - Evidence based standardization of practice
  - Achieving key health care metrics
- If we don’t take the lead, someone else will
- The risks associated with “doing nothing” are too great
ASA’s Role in PSH

- ASA Committee on Future Models of Anesthesia Practice
- CFMAP White Paper – July 2013

ASA Committee on Future Models of Anesthesia Practice
CFMAP White Paper – July 2013
American Society of Anesthesiologists
Perioperative Surgical Home Brief
http://www.periopsurghome.info/images/PSH_Whitepaper.pdf

Literature on PSH

The Perioperative Surgical Home (PSH)
A Comprehensive Literature Review for the American Society of Anesthesiologists

By: Kathleen, PhD, MBA, FACHE
Kerry D. Shep, MBA
Yvonne Zhang, MS, MA

Submitted to the American Society of Anesthesiologists (ASA)
August 20, 2013
ASA Centers
Thomas N. N field, PhD, MBA
Director of Health Policy Research, ASA

PSH Webinar

- www.ahaphysicianforum.org/webinar/2013/perioperative-home/index.shtml

ASA Learning Collaborative

Learning Collaborative to Advance the Perioperative Surgical Home (PSH)

- One year learning system (July 2014-Spring 2015)
- Educate
- Share information
- Provide ‘proof of concept’
- Support pillar projects
- Disseminate best practices within PSH framework

Key Benefits
- Peer-to-peer networking and shared learning opportunities
- Access to subject matter experts
- Access to tools and resources
Conclusions

- Great opportunity for our specialty to lead the way and be early adopters
- "It wasn’t raining when Noah built the arc"
- "The best way to predict the future is to create it" - Drucker PF