



Retained Surgical Items

New preferred term rather than RFO

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- Foreign Objects include swallowed pennies, pins, shrapnel, bullets
- Surgical Items are the tools and materiel that we use in procedures to heal not to harm
- It's a surgical patient safety problem

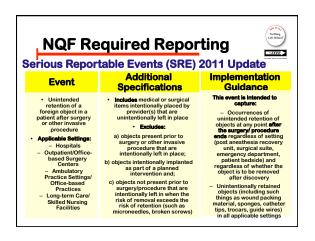
Four Classes of Items

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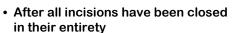
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- 1. Soft Goods
 - a) Sponges
 - b) Towels
- 2. Miscellaneous Small Items and Unretreived Device Fragments
- 3. Sharps/Needles
- 4. Instruments



When is it Retained?



- · Devices have been removed
- Final surgical counts have concluded
- Patient has been taken from the operating/procedure room

http://www.qualityforum.org/projects/hacs_and_sres.aspx





Recently in California

Collocation Department of Public Health COPH June 2012

- 13 Hospitals cited with Administrative Penalties.
- Totaling \$825,000 5 of the 13 related to
- retained surgical items
 - 4 soft goods, 1 SMI
 - \$300,000 fines
- 1. Kaiser San Diego
- Kaiser SF
 Keck Hosp of USC
- 4. Mad River Community
- 5. Motion Picture and TV
- Motion Picture and TV Hospital

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Why do they occur?



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- Focus has been on "risk assessment", attempts to identify case or patient characteristics that will predict retention
- More insightful to look at personnel and environmental characteristics
- It's us not the patient!
- It's a system problem

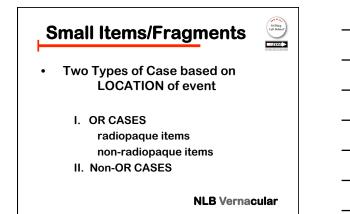
Miscellaneous Small Items

- Small Miscellaneous Items and Unretrieved Device Fragments (UDFs)
- Increasingly reported
- 70% of retained items in the Minnesota Hospital Association reports
- ◆ 50% of items from the California Dept of Public Health
- Majority of items from California Hospital Patient Safety Organization voluntary reporting system
- Probably the second most common item other places (e.g. Pennsylvania, VA reports)
 have been "bundled" in the instrument category

Device Fragments

- Unretrieved Device Fragments (UDF) can lead to serious adverse events
- US FDA notification Jan 2008
- Local tissue reaction, infection, perforation, obstruction, emboli
- CDRH receives ~1000 adverse event reports a year related to UDFs

http://www.fda.gov/MedicalDevices/Safety/Alertsar



Essential causes

OR CASES

Assuming Surgeon USES the device correctly

- 1) Manufacturer defects
- 2) Worn and Used equipment
- Drill bits imbedded in bone
- 3) New Unfamiliar Devices
 - Multiple separable parts
 - Non-radiopaque pieces
- Surgical Technologist is Content Expert

NLB Vernacular

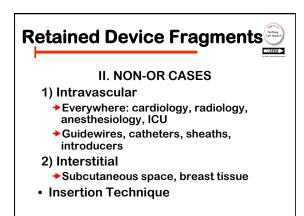
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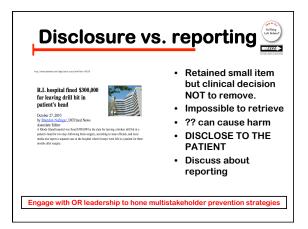
- Requires knowledge about instruments, tools, surgical items
- Standardized back table
- Must speak up and question if something is amiss

NLB Vernacular

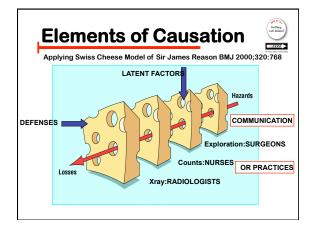














Communication



It's <u>what</u> is right not who is right

- Between nurses and surgeons "We're missing a sponge" " OK,Lets re-explore the wound!"
- "Dr. Is this a good time for lunch relief?" Between nurses and scrub techs
 - "Separate each raytex so we can make sure we have 10"
 - "Let's verify the sponge holders before you take
 - permanent relief"
- Between surgeons
 - "Make sure you check behind the heart for any raytex before you close"
 - · "Let's do our wound exam and look for sponges"



- What we do and how we manage our work We = Multiple Stakeholders
- Anesthesiologists: 4X4 management, • coordinated reversal from anesthesia
- Surgeons: use only radiopaque items, perform a wound exploration
- Nurses: surgical item accounting process
- Scrub Techs: organize field, know equipment
- Radiologists/Technologists: film quality, review
- **Risk Managers/Administrators: resources**

Practice Issues



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- Variable counting processes exist throughout an OR - no standardization, little transparency, counting in unit of issue
- Frequent confirmation bias between scrub and circulator
- Loss of situational awareness and missing events that occur outside the scrub or circulator's locus of control
- Normalization of deviance
- Retained sponge cases have occured when low numbers of sponges (<20 sponges) have been used or in any size wound - it's not about counting!

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- Multistakeholder project
- · Work with any hospital
- Adoption of simple principles and if needed, technological adjuncts
- Engage in research studies to define best practices
- Develop an evidence base to inform policies and procedures that can be systematically applied

What I see is

- Lots of practice variation within OR
- Focus on "counting"
- Massaging the policy
- Adding steps that aren't part of natural work flow
- Reliance on Memory "don't forget to...."
- Not seeing how people have set themselves up for failure
- Risk management trumps patient safety

Findings



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Nothing Left Behind

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- 80% of retained sponge cases occur in the setting of a CORRECT COUNT
 Problems with OR practices
- If noise, distractions etc. disrupt the practice of counting it's not a very reliable practice
- Very few reports specifically discuss THE PRACTICE but rather external factors around the practice

Findings

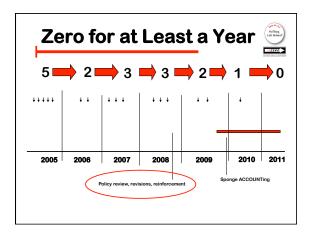


- 20% occur in the setting of an INCORRECT COUNT
 - Problems with knowledge and communication
- Xrays not called for, misread, wrong views, "negative"
- Incorrect count not reported, nurse manager never informed, no process for finding items or going to next step

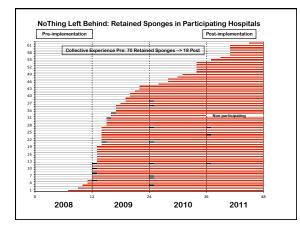




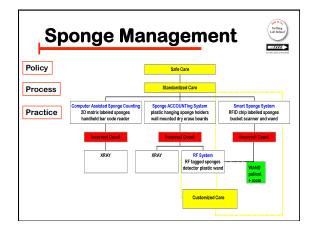












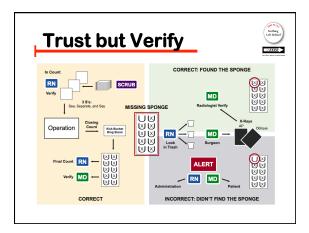


SPONGE ACCOUNTING SYSTEM Monitoring "Sponge Traffic"

Nurses use a standardized process to put sponges in hanging plastic holders and document the counts on a wall-mounted dry erase board in every OR
 Surgeons perform a methodical wound exam in every case and before leaving the OR - verify with the nurses that *all* the

sponges (used and unused) are in the holders.

50 lap pads accounted for









NOT business as usual

- Practice change for nurses <u>and</u> surgeons, accounts for sponges
- Visible, transparent system
- Different process for use of sponge <u>holders (not counters)</u>, dry erase board data for all to see
- "Show me" step <u>proves</u> that "the count is correct"

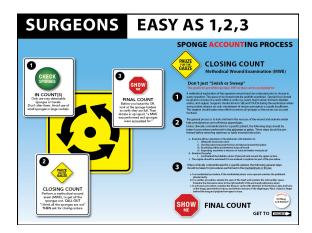
Surgeon Essence

 Perform a methodical wound exam in every case

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- If you're told of a missing sponge, stop closing the wound and look again
- At the end of every case say "show me" and look at the sponge holders and see that there are no empty pockets





Nursing Essence

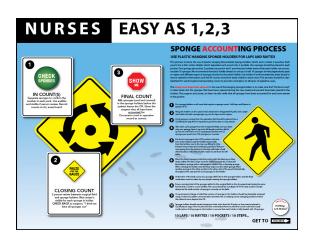
• In every case where an incision is made and surgical sponges are used, the sponges MUST be accounted for

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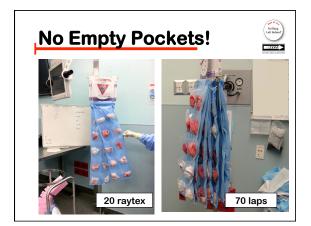
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- Work with free sponges ONLY in multiples of TEN
- At the IN count the most important element is to SEPARATE the sponges
- At the FINAL count all the sponges (used and unused) must be in the sponge holders



Always Multiples of 10

- Only one system for staff to manage
- Ten sponges no matter if laps or raytex
- Running total count on board; easy math; easily see how many are out
- Ten pockets in holder means only one sponge per pocket
- Final count has no empty pockets, easy visual
- Show me step proves no sponges are in the patient!

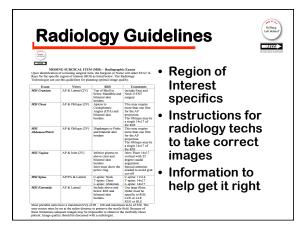














Use it Anywhere



- Sponge ACCOUNTing should be in place ANYWHERE surgical sponges are used and there is an incision or wound
 - Labor and Delivery Rooms
 - ◆OB Operating Rooms
 - Cardiology procedure rooms
 - Radiology suites where incisions are made







