Utilizing Communication & Teamwork in the Operating Room to Prevent Errors

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ASPS Annual Meeting 2013
Instructional Course









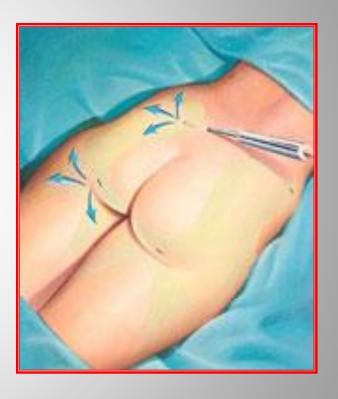


Disclosures

Speaker's bureau Angiotech Pharmaceuticals
Speaker's bureau Suneva Medical
Advisor The Doctors Company

Communication Problem

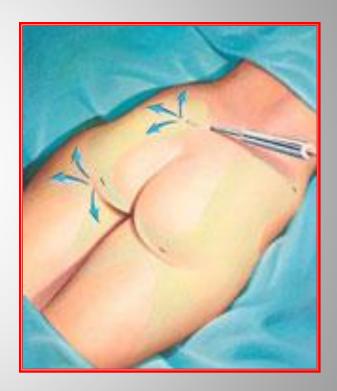
- Routine trunk liposuction
- Same OR team



Communication Problem

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Bloody lipoaspirate

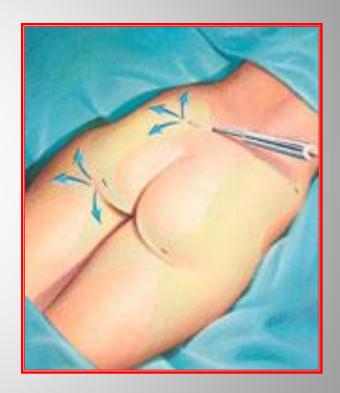


Communication Problem

- Routine trunk liposuction
- Same OR team

Bloody lipoaspirate

 No epinephrine added to infiltration fluid



Importance of Teamwork & Communication

- Essential to deliver high quality & safe patient care
- Failure a common cause of patient harm
- Complexity of medical care & limitations of human performance require clinicians to:
 - Have standardized communication tools
 - Create environment allowing freedom to speak & express concern
 - Share common "critical language" to alert team of unsafe situations

Importance of Teamwork & Communication

- Effective communication is situation & personality dependent
- Other high reliability domains (commercial aviation)
 have shown that the adoption of standardized tools
 and behaviors is a very effective strategy in
 enhancing teamwork and reducing risk

Communication Failures & Effectiveness

- Leading cause of inadvertent patient harm
- Joint Commission analysis of 2455 sentinel events
 - Primary root cause in >70% was communication failure
 - 75% of these patients died
 - Clinicians had divergent perceptions of what was <u>supposed</u> to happen
- Effective <u>communication</u> and <u>teamwork</u> creates a
 - Common mental model (getting everyone in the same movie)
 - Safe environment to speak up with safety concerns
 - No surprises culture

Teams vs Individuals

- Anticipate each others needs
- Adjust to
 - Each others actions
 - Changes in environment
- Have shared understanding of
 - How procedure should happen
 - How to identify errors and correct them
- Have shared responsibility

Communication Obstacle: Training

- Physicians & nurses communicate differently
- Nurses
 - Taught to give broad & narrative descriptions of clinical situations
 - Told they "don't make diagnoses"
- Physicians
 - Learn to be concise, and get to the "headlines" quite quickly
- SBAR bridges differences in communication styles



Communication Obstacle: Hierarchy

- Hierarchy (power distance) inhibits free communication
- Authoritarian leaders reinforce large authority gradients creating unnecessary communication barrier & increase risk
- Effective leaders flatten hierarchy creating familiarity & safe environment to speak up and participate

Tools & Behaviors for Effective Communication

- SBAR Communication Tool
- Briefings
- Visual Communication
- Appropriate Assertion
- Critical Language
- Situational Awareness
- Debriefing



SBAR: A Situational Briefing Model

- Situation
- Background
- Assessment
- Recommendation



SBAR Applied to Health Care

- Situation: What is going on with the patient?
 - Identify yourself and the patient
 - State the problem
- Background: What is the background on this patient?
 - Anticipate questions the receiver may have
- Assessment: Provide your observations & evaluations of the patient's current state
- Recommendation: An informed suggestion for the continued care of the patient

Briefings

- Standard in aviation, military, law enforcement
- Uncommon in clinical medicine
- A few minutes before surgery gets everyone at the same startpoint, avoid surprises, & positively affect how team works together
- SBAR as a briefing tool



Team Communication

- Use a Pre Op Briefing to get every team member to talk
- If everyone is <u>used to talking</u> when there isn't a problem, they will be more likely to <u>speak up</u> when a problem occurs

PreOp Briefing using an OR Checklist

# Consent complete and accurate # H&P Complete # H&P Complete # HaS Polar of Care Reconciled Diagnostic/Radiology Results Needed in OR? Diagnostic/Radiology Results Needed in OR? Site Marked/Atternate Used VTE Prophylaxis Needed? Vte Prophylaxis Needed? Ves No	Before Induction of Anesthesia	Before Skin Incision	Before Patient Leaves Room
Patient Has Confirmed			
Primary Responsibility for Leading the Check Currently on Anticoagulant? Yes, last taken on: No Glucose Checked for Diabetic Patients? Yes, Value: Not Applicable Currently on Beta Blocker? Yes, last taken on: No Does Patient have Implants or Pacemaker? Anesthesia Safety Check Completed Expected blood loss of >500ml (7ml/kg in children)? Yes, and Two IVs/CVL access and fluids planned Primary Responsibility for Leading the Check Complete Discussion is Indicated by Color Code: Obscussion is Indicated by Color Code: Discussion is Indicated by Color Code: Obscussion is Indicated by Color Code: Discussion is Indicated by Color Code: Obscussion Indicated by Color Cod	PreOp Note Site and Side Procedure Consent complete and accurate H&P Complete Consent and H&P Plan of Care Reconciled Diagnostic/Radiology Results Needed in OR? Site Marked/Alternate Used VTE Prophylaxis Needed? Yes No Does Patient have a known allergy? Yes No	Confirm All Team Members Have Introduced Themselves By Name And Role Will More Than One Procedure Be Performed? Yes, Second Time Out Required Not Applicable Has Antibiotic Prophylaxis Been Given Within The Last 60 Minutes (2 hours if Vancomycin)? Yes Not Applicable Surgeon, Anesthesia and Nurse Verbally Confirm: Patient Site Site Site Side Marked Consent Complete and Accurate Blood Products Available	Post Op Xray Required? The Name of the Procedure Recorded That Instruments, Sponge and Needle Counts are Correct How The Specimen Is Labelled (Labeling done in room in the presence of surgeon) Extra Labels To Be Placed In Paper Chart Whether There Are Any Equipment Problems To Be Addressed Surgeon, Anesthesia and Nurse Review The Key Concerns For The Recovery And Management Of The Patient Concurrence Between Consented Procedure
Not Applicable Currently on Beta Blocker? Yes, last taken on: No NA Does Patient have Implants or Pacemaker? Anesthesia Safety Check Completed Expected blood loss of >500ml (7ml/kg in children)? Yes, and Two IVs/CVL access and fluids planned Anticipated Critical Events Surgeon Reviews: Diagnosis, anticipated procedure and potential additions or deletions. What are the Critical or Unexpected Steps. Operative Duration, Anticipated Blood Loss? Anesthesia Reviews: Type of Anesth? Are There Any Patient Specific Concerns? Yes, and Two IVs/CVL access and fluids planned	Yes No N/A Currently on Anticoagulant? Yes, last taken on: No Glucose Checked for Diabetic Patients?	Procedure Correct Position Images Available/Displayed Special Equipment Available Implants Available Safety Precautions Based on Past History or	Green = Surgeon
No Implants, Equipment, or Other Issues or University Health System	Not Applicable Currently on Beta Blocker? Yes, last taken on: No N/A Does Patient have Implants or Pacemaker? Anesthesia Safety Check Completed Expected blood loss of >500ml (7ml/kg in children)? Yes, and Two IVs/CVL access and fluids planned	Anticipated Critical Events Surgeon Reviews: Diagnosis, anticipated procedure and potential additions or deletions. What are the Critical or Unexpected Steps, Operative Duration, Anticipated Blood Loss? Anesthesia Reviews: Type of Anesth? Are There Any Patient Specific Concerns? Nursing Reviews: Sterility of Instruments and	

Visual Communication

Visual cues to promote

- Track medications
- Communication
- Surgical plan
- Safety



Communication tools that benefit the team process

- Inquiry: Systematic investigation of facts, principles, or the requesting of information
 - A PA receives an order for 10 mg of a postoperative analgesic instead of the normal 5 mg for a particular patient. The PA should <u>feel free to inquire</u> why the dose is different than usual.

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Surgeons may not feel comfortable with this communication style

Appropriate Assertion

- Ability to speak up & express concerns
- State problem politely & persistently until resolved
- Avoid speaking indirectly (don't hint and hope)
- Focus on the problem (not who's "right & wrong")
- Nurses have license to say: "I need you to ..."



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 - Tell your team it is OK to CUSS in the OR!
- Creates a clear communication model
- Avoids tendency to speak indirectly & deferentially

Situational Awareness

- Surgical team
 - Maintains the "big picture"
 - Thinks ahead to plan & discuss contingencies
- Ongoing dialogue
 - Keeps team up to date with what is happening
 - Promotes proper response if situation changes

Debriefing

- Process of assessing:
 - What the team did well
 - What were the challenges
 - What they will do differently the next time
- Opportunity for both individual & team learning
 - Events are still fresh
 - Input from junior team members
 - Opportunity for surgeon to get feedback

OR Video Recording

- 10 high-acuity operations (44 hours patient care)
- 33 deviations from care
 - 17 safety compromises
- 1 every 80 minutes
- Deviations were multifactorial
 - Mean 3 factors



Results of OR Video Recording

Communication & organizational structure at root of deviations

Deviations result from poor organizational and environmental design and suboptimal team dynamics, with caregivers compensating to avoid patient harm



Outcomes in OR

- Wrong site surgeries eliminated
- Decreased nursing turnover
- Increased employee satisfaction
- Increased perception of safety climate
- Improved teamwork climate & communication
- Personnel taking responsibility for patient safety
- Medical errors being handled appropriately
- Nurses feeling their input is well received



Perioperative Briefing Application

OR team challenges in MWL body contouring

- Academic institution
- Multiple procedures
- Patient position changes
- Long operative time
- New equipment
- Multiple concurrent surgical sites
- Residents & students
- Not doing the same way twice
 - "Refining the technique"

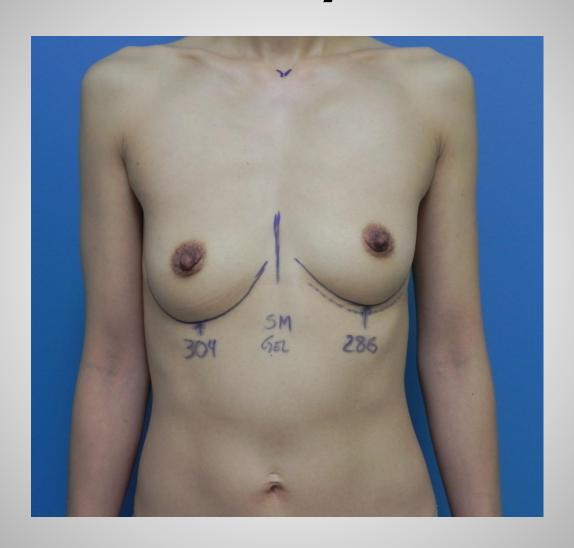
Briefing before Patient Marked

Improved process with 2-4 min discussion

- Sequence of procedures
- Estimated times for each procedure
- Timing and specifics of patient positioning
- Rational for new equipment
- How many assistants needed
- What I am going to do different today
- Potential pitfalls (hypothermia)
- Any new members on the team today?
- Any questions?

Dramatic improvement in teamwork, waiting time & frustration level

Communicate with your Patient



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Add check lists Noise in OR