



Orthopedic Spinal Fusion
Quality Improvement Project.
Environmental Cleaning in the OR

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I have no relevant financial relationships to disclose in regard to the content of this presentation.

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Fletcher Allen Health Care



- Location: Burlington Vermont, the largest city in the state
- Academic and University Medical Center
- Referral center for northern New York and Vermont
- 30 Patient care sites and 100 clinics
- Hospital with 562 licensed beds (excluding nursery)



Project Background

PI Project - To use evidenced based practices throughout entire patient experience for complex spine surgery to result in decreased infection rates.

- Physician driven, multi-disciplinary team.
- Multi-faceted interventions.
 - Understanding the epidemiology of infected cases.
 - Patient: MRSA/MSSA pre-op screening & decolonization, education, pre-op instructions.
 - Peri-op: antibiotic choice, OR traffic, MD & team practices, ASF/PSF treat as 2 procedures.
 - Environment: air quality, instruments & room cleanliness.



Environmental Cleanliness in the OR

“We were about to start a long case and I looked up at the light, there was a long hair just hanging there!!!!”

Standardize Practices: Environmental Services & OR team.

- Disinfectants evaluated.
- Transitioned to micro-fiber mops and cloths.
- Training: refresher for OR & ES → standard practices.
- Developed & implemented surface testing protocol for the OR.
 - Critical surfaces identified
 - Routine monitoring & frequent feedback
 - Incentive & reward program

OPERATING ROOMS



MED CART



PHONES



STOOLS



COMPUTERS



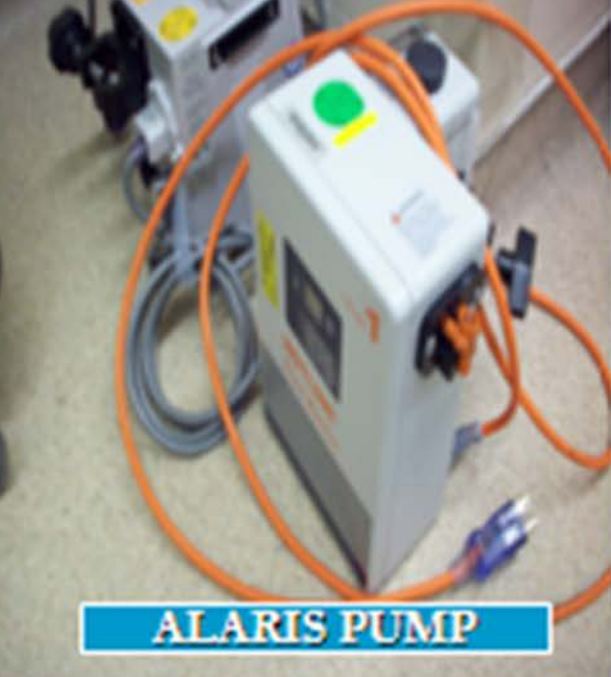
TRAY TABLES



BOVIE



BED & BED CONTROLS



ALARIS PUMP



DOOR HANDLE



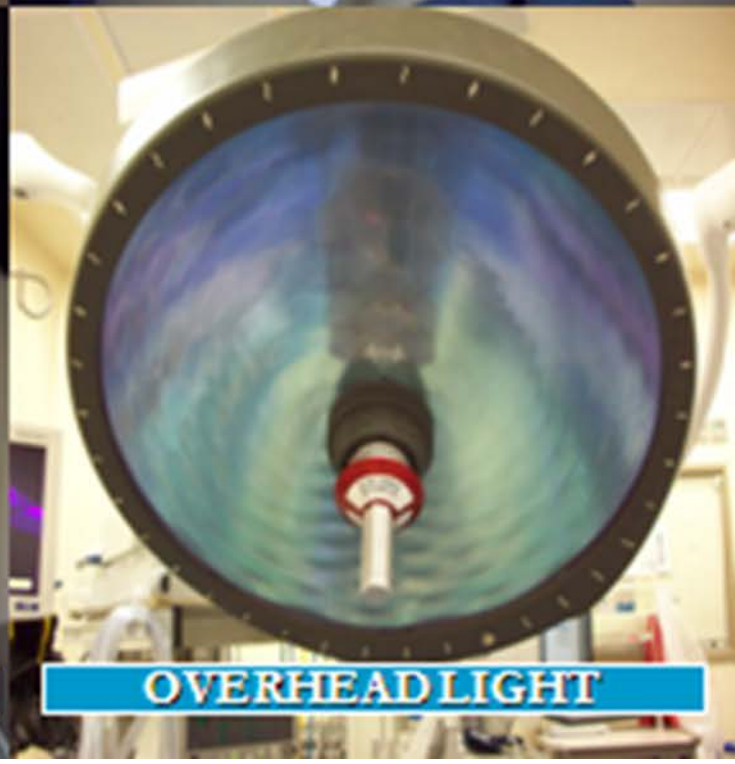
IV POLE



**ANESTHESIA
CHAIR**



LIGHT SWITCH



OVERHEAD LIGHT



Communication Challenges

“There was blood on the wall.” “The room wasn’t set up right.”

- Established ES/OR Daily Communication Log.
- Initiated ES/OR Monthly Rounding.

“Night shift ES staff speak many languages.”

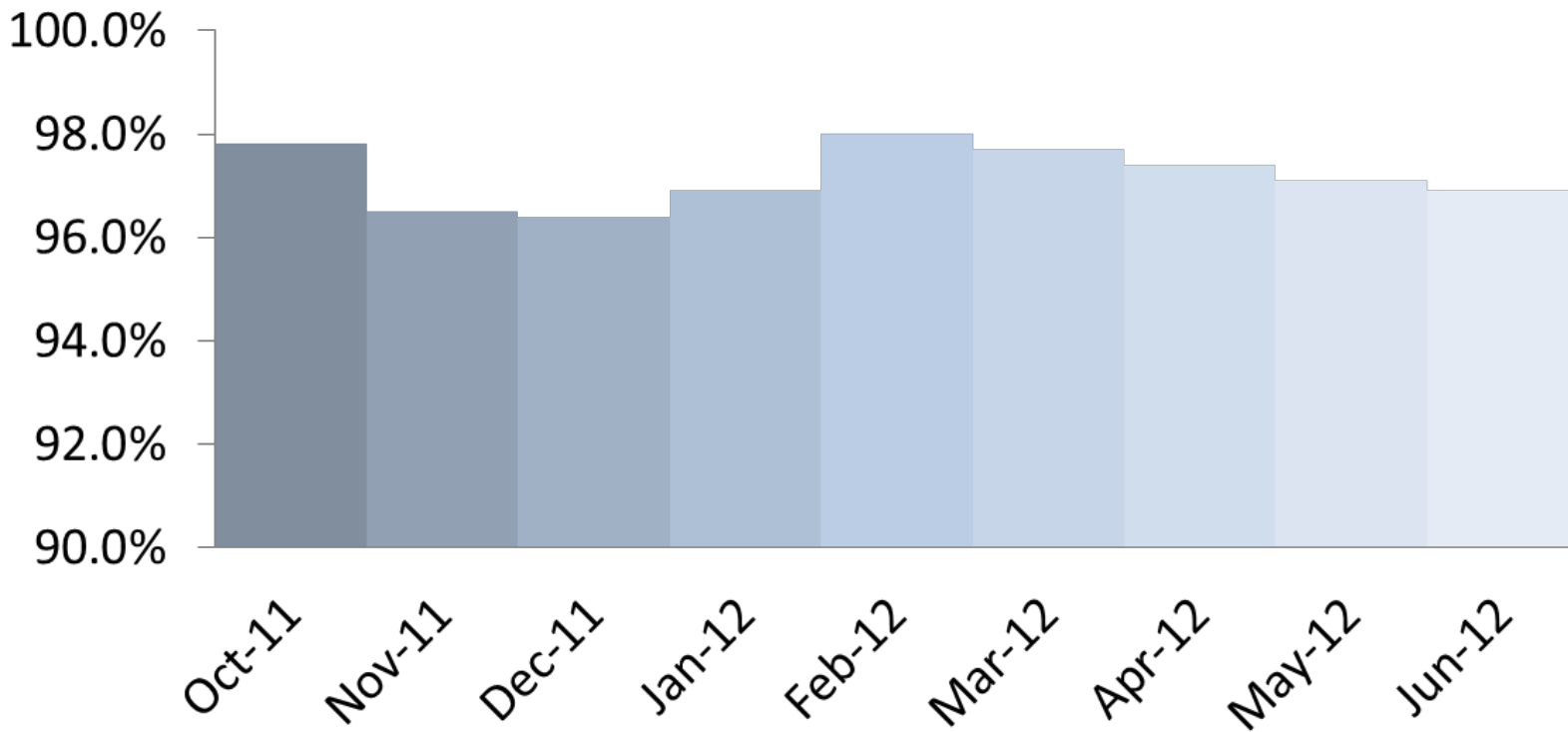
- Provided visual cues in closets & on carts.





Monitoring – Monthly Trend

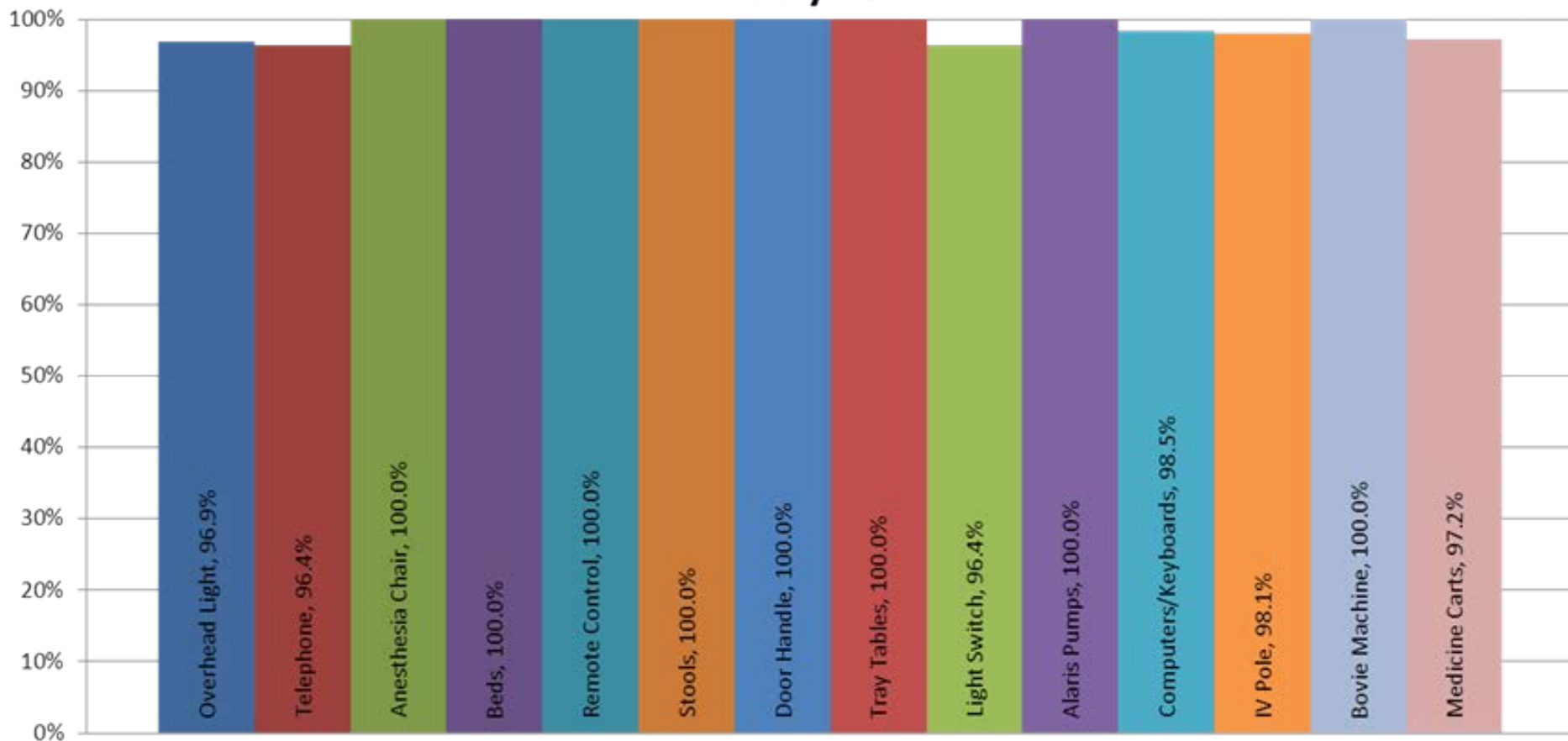
Effective Surface Cleaning: % Completed





Monitoring

Operating Rooms July 2012





Lessons Learned & Advice for others

- Surgeon and team engagement essential.
- Establish measures, report routinely and discuss.
- Spread good work; to and from other areas.



Thank You

Questions?

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