

Operating Room Terminal Cleaning Effectiveness Study

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Element 1: State the Purpose

Purpose of this study:

To protect our patients and team by evaluating and improving the quality performance of our current housekeeping services as it pertains to Operating Room Terminal Cleaning Effectiveness (ORTCE).

Background:

There has been significant evidence of ineffective terminal cleaning of our OR suites and procedure rooms with our current housekeeping service. After evaluating baseline data it was determined that our current housekeeping service OR Terminal Cleaning Effectiveness was only 20%. This gap in service and quality creates the potential for surgical site infections (SSI) and/or transmission of healthcare-associated infections to our patients and staff.

Significance:

SSI occurs in 2%-4% of all patients undergoing surgery with an estimated cost expenditure of \$3.3 billion dollars as per CDC, 2024.

Element 2: Set the Goal

Goal:

To achieve and sustain over 90% *Operating Room Terminal Clean Effectiveness* increasing from 20% by the end of October 2023 and to progress towards 100% consistently by the end of the 2nd quarter 2024. This goal is designed to provide patients, family, and staff with an improved level of cleanliness safety to instill confidence in our organization.

The successful attaining of the goal will be measured by percentage of complete cleaning of a simulated germ substance visible under UV light. An application of a simulated germ lotion (evaluators initials will be drawn with the product) will be applied to 20 random locations in the operating/procedure rooms prior to housekeeping services are rendered. After services are complete then an inspection with a UV light will be performed to measure the ORTCE of all 20 selected spots. To be a successful clean, there should be no remaining residual product. Collective data will be tabulated to determine a percentage of OR Terminal Clean Effectiveness for each day inspection is performed.



Element 3: Identify the Gap

Gap Analysis:

After review of the baseline data it was evident that there were significant gaps in housekeeping ORTCE. The extremely low range of scores indicated a high vulnerability level for potential SSI's and/or transmission of healthcare-associated infections to patients and staff. It was clear that immediate measures needed to be taken to drastically improve ORTCE.

Identified Gaps:

- Language barrier between ASC and housekeeping staff (*Spanish speaking only*)
- Knowledge gap regarding OR terminal cleaning best practices & standards
- Lack of onsite real-time supervision
- Gap in clarity on intended scope of services

Element 4: Corrective Actions

Corrective Actions Based On Identified Gaps:

Review findings/deficiencies with housekeeping service and management.

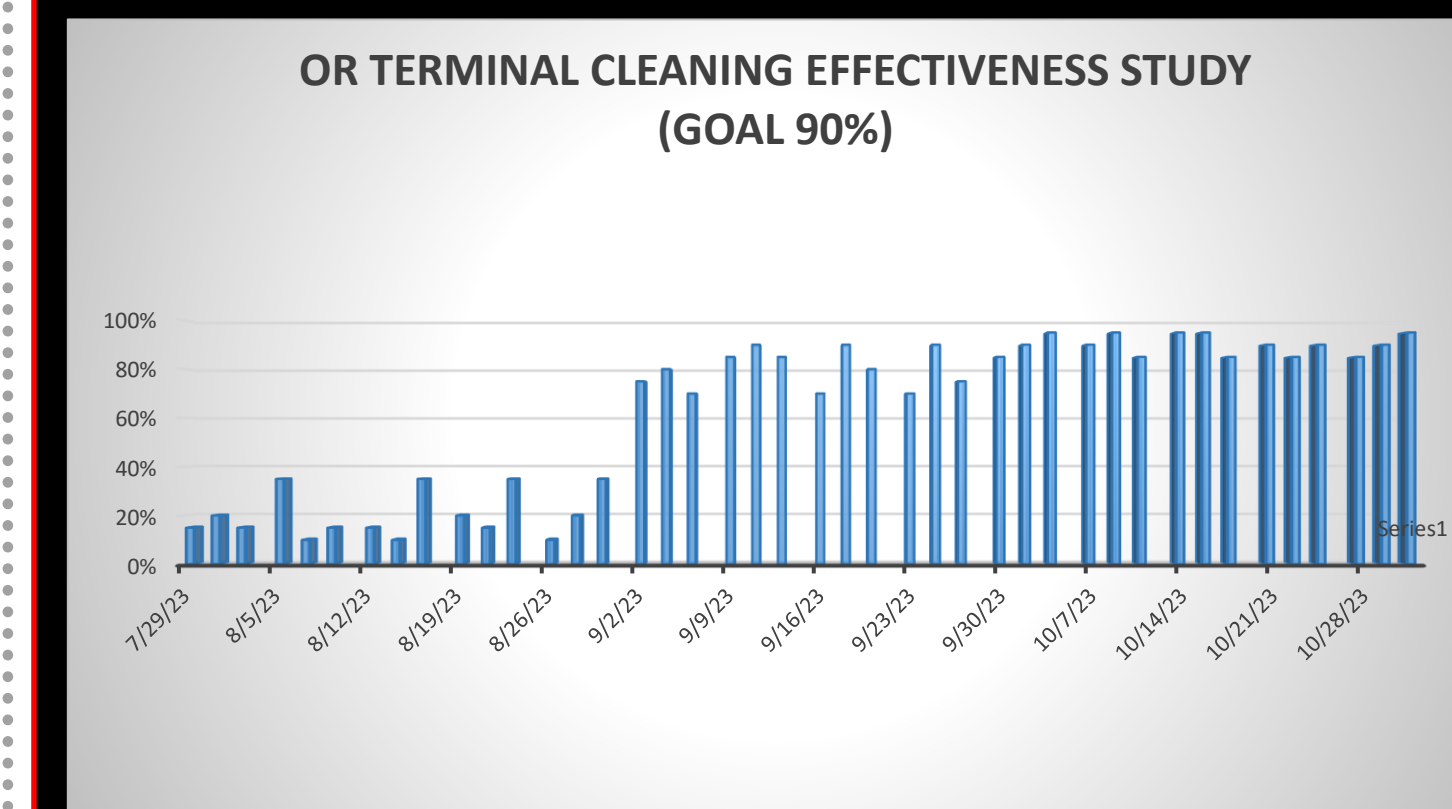
- Create terminal clean log in Spanish
- Education to housekeeping team regarding high quality terminal cleaning.
- Management to randomly supervise after hours housekeeping performance
- Review the initial agreement and reset expectations with housekeeping service based on intended scope of services.
- Set up weekly meetings to review ORTCE performance and revise or add additional corrective actions. Remaining actions will be implemented no later than 7 days.

Element 5: Re-Measure

Following implementation of the initial corrective actions, and continuing to re-evaluate over the next four weeks, the ORTCE score improved to an average of 80%. After 6 weeks the ORTCE that was achieved was 92%.

Additional Corrective Actions

- Provide a AORN Terminal Cleaning Video and then created a Spanish version to better articulate high quality terminal cleaning
- Provide visual cues and focus points in the OR/Housekeeping communication book nightly to enhance the quality of housekeeping performance.



Element 6: Communicate

Study Results and Findings were Shared Via:

- Monthly Staff meetings
- Quality Quarterly Meeting
- Governing Board Members in Quarterly meeting
- Medical Executive Members in Quarterly Meeting
- Copy of study placed in QAPI Binder
- Ongoing ORTCE published in the ASC newsletter
- Had celebratory luncheon for staff and housekeeping when reached 90%

BASELINE OR TERMINAL CLEANING EFFECTIVENESS STUDY (GOAL 90%)

