

## Root cause analysis in surgical site infections (SSIs)

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**ABSTRACT:** *Surgical site infections (SSIs) are wound infections that usually occur within 30 days after invasive procedures. The development of infections at surgical incision site leads to extend of infection to adjacent tissues and structures. Wound infections are the most common infections in surgical patients, about 38% of all surgical patients will develop a SSI. The studies show that among post-surgical procedures, there is an increased risk of acquiring a nosocomial infection. Root cause analysis is a method used to investigate and analyze a serious event to identify causes and contributing factors, and to recommend actions to prevent a recurrence including clinical as well as administrative review. It is particularly useful for improving patient safety systems. The risk management process is done for any given scenario in three steps: perioperative condition, during operation and post-operative condition. Based upon the extensive searches in several biomedical science journals and web-based reports, we discussed the updated facts and phenomena related to the surgical site infections (SSIs) with emphasis on the root causes and various preventive measures of surgical site infections in this review. The web based pubmed, openpdf, Elsevier and other journals were used to retrieve the information.*

**Keywords**—*Surgical Site Infections (SSIs), Patient Safety Systems, Root Cause Analysis, Risk Management Process.*

### I. INTRODUCTION

Surgical site infections are the most common health care associated infections. A number of factors affect the occurrence of these infections such as old age, disease, malnutrition caloric, non-compliance with the standard and transmission based precautions, use objects contaminated during surgery, extended stay in hospital and the long duration of surgery. Root cause analysis is a method used to investigate and analyze a serious or sentinel event (an unexpected occurrence involving death or serious physical or psychological injury or risk) to identify causes and contributing factors, and to recommend actions to prevent a recurrence including clinical as well as administrative review. It is particularly useful for improving patient safety systems (Sherwin, J., 2011).<sup>1</sup> The common pathogens cause infections (sepsis) in surgery are *Staphylococcus aureus*, *Streptococcus milleri*, *Enterococcus faecium*, *Escherichia coli*, *Candida albicans* and *Pseudomonas aeruginosa*. Root cause analysis focuses primarily on system and processes not individual performance (Holloway, 2004).<sup>2</sup> The organisation include perioperative nurses, surgeons, anaesthesiology care providers, risk managers, quality improvement coordinators and other related staff members should overhaul perioperative assessment care plans and multidisciplinary planning records to reduce the risk of sepsis in the patients (Anderson, Fagerhaug and Beltz, 2010).<sup>3</sup>

The main cause of the appearance of surgical wound infection is the entrance of a microorganism during surgical intervention. A result of study conducted in United States shows that from all the nosocomial infection the surgical wound infection is most common. Reports show about 14 to 16% wound infection occurs in hospitalized patients and 38% of the surgical patients (Owens & Stoessel, 2008).<sup>4</sup> During the surgical procedure microorganisms can penetrate the body through various ways such as contaminated environment, which mainly includes operating room and non-sterile techniques like unsanitary hands and non-sterile items. Moreover, at the same time if patient's body is not sterile, that is also act as a door for entry of microbes. Most

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