

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).¹ 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).² 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).³

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).⁴ 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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George Bentley



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Manual of Infection Prevention and Control Nizam Damani, 2019 It has been estimated that in developed countries up to 10% of hospitalized patients develop infections every year Not only is there a substantial cost to healthcare systems but some healthcare associated infections HCIA's can be fatal Since the majority of HCIA's are preventable reducing HCIA's is now considered to be an integral part of patient safety and quality of care provided by all healthcare institutions worldwide Unlike other books on infection control the main strength of this book is to provide clear up to date and practical guidance in infection control in an easy to read format which can act as a quick source of reference on all aspects of HCIA for healthcare workers who are either directly or indirectly involved in prevention and control of HCIA's Although the book's main audience is infection control practitioners such as doctors nurses public health physicians it is also a valuable reference for environmental health officers health educators practice managers in GP surgeries and health service managers

OPTIMIZING SUPPLY CHAIN MANAGEMENT FOR REHABILITATION SERVICES IN HOSPITALS Thamer Mohammad Mugheeb, Fahad Dheefallah Almutairi, Ibrahim Nayif R Alotaibi, The field of healthcare supply chain management has seen significant changes in recent years The need to enhance patient outcomes reduce expenses and increase overall efficiency has been the impetus behind this breakthrough Taking into mind this environment the optimization of supply chain management that is specifically geared to rehabilitation services in hospitals emerges as an essential topic of focus and innovation This book dives into the intricate dynamics of supply chain management on every level and it does so within the context of hospital rehabilitation services An in depth investigation into the specific challenges that medical professionals face when it comes to procuring maintaining and distributing resources that are essential for rehabilitation therapy is included in this document eventually the objective of this study is to shed light on potential for simplifying procedures enhancing service delivery and eventually increasing the quality of care that is offered to patients This will be accomplished by examining these challenges through the lens of strategy *Quality Measures* Deeb N. Salem, 2020-03-11 While the healthcare system continues to shift towards more emphasis on quality metrics there remains a substantial gap between the expectations of healthcare policies and standards of hospital administrations vs the realistic care provided by the average healthcare provider This book offers the perspective of the healthcare provider and aims to fulfill the unmet need to educate other healthcare providers on recognizing quality measures and understanding how to achieve them to meet standards of quality care This book covers the historical perspective of quality measures the context of their existence their utility and the contemporary issues related to their use Simultaneously it critically addresses the quality of these quality metrics and presents the evidence available to date on the efficacy and the limitations of these quality measures This text is all inclusive and is organized into chapters that include the evolution of quality metrics in healthcare the practical role of hospitals as well as the practical role of individual healthcare providers in addressing quality metrics The chapters

also include assessment of quality metrics that uniquely pertain to medical and surgical practices as well as non clinical quality metrics that specifically target undergraduate and graduate medical training Finally the book reflects on the use of contemporary quality metrics and their impact on outcomes patient care and public health and policy making In these chapters tables and illustrations including algorithms will be used to provide systematic approaches to common issues related to quality metrics In addition historical anecdotes and case presentations will be used to address pearls in contemporary practice of quality metrics Quality Measures is the definitive reference on quality metrics in healthcare and is a valuable resource for healthcare providers trainees administrators and public health agencies

Statistical Methods for Hospital Monitoring with R Anthony Morton, Kerrie L. Mengersen, Geoffrey Playford, Michael Whitby, 2013-06-27 Hospitals monitoring is becoming more complex and is increasing both because staff want their data analysed and because of increasing mandated surveillance This book provides a suite of functions in R enabling scientists and data analysts working in infection management and quality improvement departments in hospitals to analyse their often non independent data which is frequently in the form of trended over dispersed and sometimes auto correlated time series this is often difficult to analyse using standard office software This book provides much needed guidance on data analysis using R for the growing number of scientists in hospital departments who are responsible for producing reports and who may have limited statistical expertise This book explores data analysis using R and is aimed at scientists in hospital departments who are responsible for producing reports and who are involved in improving safety Professionals working in the healthcare quality and safety community will also find this book of interest Statistical Methods for Hospital Monitoring with R Provides functions to perform quality improvement and infection management data analysis Explores the characteristics of complex systems such as self organisation and emergent behaviour along with their implications for such activities as root cause analysis and the Pareto principle that seek few key causes of adverse events Provides a summary of key non statistical aspects of hospital safety and easy to use functions Provides R scripts in an accompanying web site enabling analyses to be performed by the reader http://www.wiley.com/go/hospital_monitoring Covers issues that will be of increasing importance in the future such as generalised additive models and complex systems networks and power laws

Patient Safety in Developing Countries Yaser Al-Worafi, 2023-10-05 Understanding the various aspects of patient safety education practice and research in developing countries is vital in preparing a plan to overcome the challenges of improving patient safety This unique volume discusses patient safety in developing countries and the achievements and challenges faced in those places when trying to improve patient safety education and practice This book includes a compilation of over 100 case studies surrounding patient safety in all aspects of health care Both real and simulated scenarios are provided to help medical students and professionals apply their knowledge to solve the cases and prepare for real practice Features Describes the achievements and challenges of patient safety in developing countries Includes real and simulated case studies and key answers on patient safety issues

Prepares medical students and practitioners for real life situations Diverse audience including those in medication to safety testing patient education dispensing changes and the design of health systems Aids medical students and practitioners to improve their skills to solve cases **Hoshin Kanri for Healthcare** Gerard A. Berlanga,Brock C. Husby,Heather K.

Anderson,2018-05-11 The best healthcare organizations have developed effective approaches to develop compelling strategic visions and strategies based on long term thinking and continue to apply Lean principles across their organizations to create a culture of continuous improvement Establishing effective strategies and Toyota style Hoshin Kanri enables healthcare organizations to align everyone in the organizations and creates a unique competitive advantage This book follows a regional hospital s journey through the creation of long term strategic goals and Toyota Style strategy deployment **Best**

Practices in Infection Prevention and Control Barbara M. Soule,Ziad A. Memish,Preeti N. Malani,2012 Best Practices in Infection Prevention and Control An International Perspective Second Edition a copublication of Joint Commission International and the Society for Healthcare Epidemiology of America SHEA is an essential infection prevention and control IPC resource for health care organizations This fully updated edition provides thorough analysis of JCI s and other IPC requirements as well as case studies tips and tools for increasing IPC compliance and patient safety **Youmans and Winn**

Neurological Surgery E-Book H. Richard Winn,2022-01-21 Widely regarded as the definitive reference in the field Youmans and Winn Neurological Surgery offers unparalleled multimedia coverage of the entirety of this complex specialty Fully updated to reflect recent advances in the basic and clinical neurosciences the 8th Edition covers everything you need to know about functional and restorative neurosurgery deep brain stimulation stem cell biology radiological and nuclear imaging and neuro oncology as well as minimally invasive surgeries in spine and peripheral nerve surgery and endoscopic and other approaches for cranial procedures and cerebrovascular diseases In four comprehensive volumes Dr H Richard Winn and his expert team of editors and authors provide updated content a significantly expanded video library and hundreds of new video lectures that help you master new procedures new technologies and essential anatomic knowledge in neurosurgery Discusses current topics such as diffusion tensor imaging brain and spine robotic surgery augmented reality as an aid in neurosurgery AI and big data in neurosurgery and neuroimaging in stereotactic functional neurosurgery 55 new chapters provide cutting edge information on Surgical Anatomy of the Spine Precision Medicine in Neurosurgery The Geriatric Patient Neuroanesthesia During Pregnancy Laser Interstitial Thermal Therapy for Epilepsy Fetal Surgery for Myelomeningocele Rehabilitation of Acute Spinal Cord Injury Surgical Considerations for Patients with Polytrauma Endovascular Approaches to Intracranial Aneurysms and much more Hundreds of all new video lectures clarify key concepts in techniques cases and surgical management and evaluation Notable lecture videos include multiple videos on Thalamotomy for Focal Hand Dystonia and a video to accompany a new chapter on the Basic Science of Brain Metastases An extensive video library contains stunning anatomy videos and videos demonstrating intraoperative procedures with more than 800

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Guzman-Cottrill,2019-04-08 **AN INNOVATIVE AND ESSENTIAL NEW TOOL IN FIGHTING HEALTHCARE ASSOCIATED INFECTIONS** The *Handbook of Pediatric Infection Prevention and Control* is the most comprehensive practical resource available on infection prevention across the spectrum of pediatric healthcare settings including acute care hospitals ambulatory practices and long term care facilities It addresses the nuances and challenges specific to pediatric infection prevention providing expert guidance on topics where evidence based guidelines don t currently exist Expertly written and exceptionally practical this handbook is an essential resource for infection preventionists healthcare epidemiologists infectious disease fellows and anyone who provides support for infection prevention programs in pediatric facilities The *Handbook of Pediatric Infection Prevention and Control* is a publication of the Pediatric Infectious Diseases Society the world s largest organization dedicated to the treatment control and eradication of infectious diseases that affect children

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Multidisciplinary Approach to Surgical Oncology Patients M. D. Ray, 2021-03-02 The book covers the basic concept of surgical and oncosurgical disciplines as a whole, as well as the management of surgical patients from pre-operative preparation to discharge, i.e., all the basics needed for a successful outcome for oncosurgical patients. It covers surgical safety, the consumer protection act, medico-legal aspects, the importance of documentation, research, and publications, and managing complications. The respective chapters cover pre-operative, intra-operative, and ICU management of cancer patients based on a multi-disciplinary approach. Additionally, they highlight recent advances in surgical oncology and so-called incurable

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