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KEY=INCIDENT - HALLIE VALENTINE

Shepherd's System for Medical Device Incident Investigation and Reporting

Lippincott Williams & Wilkins **This looseleaf publication provides a systems technique for the analysis of medical device incidents.**

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Guidelines for Preventing Workplace Violence for Health Care & Social Service Workers

Clinical Engineering Handbook

Academic Press **Author Joseph Dyro has been awarded the Association for the Advancement of Medical Instrumentation (AAMI) Clinical/Biomedical Engineering Achievement Award which recognizes individual excellence and achievement in the clinical engineering and biomedical engineering fields. He has also been awarded the American College of Clinical Engineering 2005 Tom O'Dea Advocacy Award. As the biomedical engineering field expands throughout the world, clinical engineers play an evermore important role as the translator between the worlds of the medical, engineering, and business professionals. They influence procedure and policy at research facilities, universities and private and government agencies including the Food and Drug Administration and the World Health Organization. Clinical Engineers were key players in calming the hysteria over electrical safety in the 1970's and Y2K at the turn of the century and continue to work for medical safety. This title brings together all the important aspects of Clinical Engineering. It provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice around the world. * Clinical Engineers are the safety and quality faciltators in all medical facilities.**

Registries for Evaluating Patient Outcomes

A User’s Guide

Government Printing Office **This User’s Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User’s Guide was created by researchers affiliated with AHRQ’s Effective Health Care Program, particularly those who participated in AHRQ’s DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.**

Medical Technology into Healthcare and Society

A Sociology of Devices, Innovation and Governance

Springer **From bandage to the bioreactor, this book looks at five different device technologies from inception to healthcare practice, drawing on medical sociology, science and technology studies and political science. It examines 'evidence', regulation and governance processes, and diverse stakeholders in innovating the technologies that shape health care.**

Medical Equipment Management

CRC Press **Know What to Expect When Managing Medical Equipment and Healthcare Technology in Your Organization As medical technology in clinical care becomes more complex, clinical professionals and support staff must know how to keep patients safe and equipment working in the clinical environment. Accessible to all healthcare professionals and managers, Medical Equipment Management presents an integrated approach to managing medical equipment in healthcare organizations. The book explains the underlying principles and requirements and raises awareness of what needs to be done and what questions to ask. It also provides practical advice and refers readers to appropriate legislation and guidelines. Starting from the medical equipment lifecycle, the book takes a risk-based approach to improving the way in which medical devices are acquired and managed in a clinical context. Drawing on their extensive managerial and teaching experiences, the authors explain how organizational structures and policies are set up, how funding is allocated, how people and equipment are supported, and what to do when things go wrong.**

4th European Conference of the International Federation for Medical and Biological Engineering 23 - 27 November 2008, Antwerp, Belgium

Springer Science & Business Media **The 4th European Congress of the International Federation for Medical and Biological Federation was held in Antwerp, November 2008. The scientific discussion on the conference and in this conference proceedings include the following issues: Signal & Image Processing ICT Clinical Engineering and Applications Biomechanics and Fluid Biomechanics Biomaterials and Tissue Repair Innovations and Nanotechnology Modeling and Simulation Education and Professional**

Encyclopedia of Medical Devices and Instrumentation, Radiotherapy, Heavy Ion X-Rays, Production of

Wiley-Interscience **The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine. They answer the question, What are the branches of medicine and how does technology assist each of them? Articles focus on the practice of medicine that is assisted by devices, rather than including, for example, the use of drugs to treat disease. The title is the only resource on the market dealing with the subject in encyclopedic detail. * Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians * Articles cover the latest developments such as nanotechnology, fiber optics, and signal processing**

Investigation of Radiological Incidents

Recommendations of the National Council on Radiation Protection and Measurements

National Council on Radiation **The purpose of this Report is to provide guidance for investigating radiological incidents that can occur wherever radioactive materials are handled, stored, used or transported, or where radiation generating equipment is operated. Radiological incidents have the potential to adversely impact; the health and safety of workers or members of the public, the environment, operations, and compliance with regulations. This Report provides guidance and practical information for individuals who have the responsibility of performing or overseeing investigations to include a scaled approach such that the extent and rigor of the investigation can be tailored to the severity and complexity of the incident. Guidance is provided on appointing individuals to an incident investigation team including recommendations for the training and qualifications of investigators and the use of consultants and specialists in conducting the investigation. The process of investigation includes a discussion of the initial response to the incident, including the procedures for controlling the incident scene to prevent loss of information, recovering any physical items that may have been removed, and how to gather information related to the incident. Various aspects for conducting the investigation are discussed including the initial team meeting, performance of onsite inspections, interviewing personnel involved in the incident, and collecting physical evidence. Performance of the cause analysis is reviewed including which type of cause analysis to perform. Ideas for the development of a corrective action plan and preparation of the investigation report, including legal considerations, are provided along with suggestions for scheduling, reviewing, tracking and trending the effectiveness of corrective actions. The Report will be useful to all safety personnel, managers who are responsible for operations that involve radiation, and those asked to perform an investig**

Clinical Engineering

A Handbook for Clinical and Biomedical Engineers

Academic Press **Clinical Engineering is intended for professionals and students in the clinical engineering field who need to successfully deploy medical technologies. The book provides a broad reference to the core elements of the subject and draws from the expertise of a range of experienced authors. In addition to engineering skills, clinical engineers must be able to work with patients and with a range of professional staff, including technicians and clinicians, and with equipment manufacturers. They have to keep up-to-date with fast-moving scientific and medical research in the field and be able to develop laboratory, design, workshop, and management skills. This book is the ideal companion in such studies, covering fundamentals such as IT and software engineering as well as topics in rehabilitation and assistive technology. Provides engineers in core medical disciplines and related fields with the skills and knowledge to successfully collaborate to in developing medical devices to approved procedures and standards Covers US and EU standards (FDA and MDD, respectively, plus related ISO requirements), the de facto international standards, and is backed up by real-life clinical examples, case studies, and separate tutorials for training and class use The first comprehensive and practical guide for engineers working in a clinical environment**

Regulation of Medical Implants in the EU and UK

Fifth Report of Session 2012-13, [Vol. 1]: Report, Together with Formal Minutes, Oral and Written Evidence

The Stationery Office **EU regulations on the safety of medical implants-such as metal-on-metal hip replacements-must be urgently tightened in response to evidence that manufacturers are seeking approval for devices in Member States with the least stringent regulatory regimes. Much greater transparency is needed about the approval process so patients and doctors can have full confidence in the implants they are using. Manufacturers and regulators must also publish more rigorous clinical data on the safety of new implants and be subject to greater scrutiny. The clinical data requirements for high-risk medical devices to be sold on the European Market are much less stringent than for new medicines. There appears to be reliance on equivalence-similarity to an existing implant-rather than clinical investigations of the implant being approved. The Committee calls for all clinical data used in the approval of a medical implant to be published without identifying patients or clinical trial participants. For products currently on the market, such data should be published immediately. There should also be a public record of every approach from a manufacturer to any notified body in the EU so that 'forum shopping' can be identified. UK regulatory body the Medicines and Healthcare products Regulatory Agency (MHRA) is criticised for its slow reaction to reports of problems with metal-on-metal hip replacements in Australia. The withdrawal of PIP breast implants also highlights the need for frequent and unannounced spot-checks of medical implant manufacturers to identify and prevent similar problems. The Committee is supportive of the proposed legislative changes from the European Commission to improve transparency**

Introduction to Clinical Engineering

Academic Press **Introduction to Clinical Engineering focuses on the application of engineering practice within the healthcare delivery system, often defined as clinical engineering. Readers will explore the fundamental concepts integral to the support of healthcare technology to advance medical care. The primary mission of clinical engineers is the utilization of medical devices, software, and systems to deliver safe and effective patient care throughout technology's lifecycle. This unique and interdisciplinary workforce is part of the healthcare team and serves as the intersection between engineering and medicine. This book is aimed at practitioners, managers, students, and educators to serve as a resource that offers a broad perspective of the applications of engineering principles, regulatory compliance, lifecycle planning, systems thinking, risk analysis, and resource management in healthcare. This book is an invaluable tool for healthcare technology management (HTM) professionals and can serve as a guide for students to explore the profession in depth. Offers readers an in-depth look into the support and implementation of existing medical technology used for patient care in a clinical setting Provides insights into the clinical engineering profession, focusing on engineering principles as applied to the US healthcare system Explores healthcare technology, hospital and systems safety, information technology and interoperability with medical devices, clinical facilities management, as well as human resource management**

Medical Regulatory Affairs

An International Handbook for Medical Devices and Healthcare Products

CRC Press **This handbook covers medical device regulatory systems in different countries, ISO standards for medical devices, clinical trial and regulatory requirements, and documentation for application. It is the first to cover the medical device regulatory affairs in Asia. Experts from influential international regulatory bodies, including the US Food and Drug Administration (FDA), UK Medicines and Healthcare Products Regulatory Agency, Japan Pharmaceuticals and Medical Devices Agency, Saudi Food and Drug Authority, Korea Testing Laboratory, Taiwan FDA, World Health Organization, Asian Harmonization Working Party, Regulatory Affairs Professionals Society, and British Standards Institution, have contributed to the book. Government bodies, the medical device industry, academics, students, and general readers will find the book immensely useful for understanding the global regulatory environment and in their research and development projects.**

Medical Device Cybersecurity for Engineers and Manufacturers

Artech House **Cybersecurity for medical devices is no longer optional. We must not allow sensationalism or headlines to drive the discussion… Nevertheless, we must proceed with urgency. In the end, this is about preventing patient harm and preserving patient trust. A comprehensive guide to medical device secure lifecycle management, this is a book for engineers, managers, and regulatory specialists. Readers gain insight into the security aspects of every phase of the product lifecycle, including concept, design, implementation, supply chain, manufacturing, postmarket surveillance, maintenance, updates, and end of life. Learn how to mitigate or completely avoid common cybersecurity vulnerabilities introduced during development and production. Grow your awareness of cybersecurity development topics ranging from high-level concepts to practical solutions and tools. Get insight into emerging regulatory and customer expectations. Uncover how to minimize schedule impacts and accelerate time-to-market while still accomplishing the main goal: reducing patient and business exposure to cybersecurity risks. Medical Device Cybersecurity for Engineers and Manufacturers is designed to help all stakeholders lead the charge to a better medical device security posture and improve the resilience of our medical device ecosystem.**

Guidelines for Investigating Process Safety Incidents

John Wiley & Sons **This book provides a comprehensive treatment of investing chemical processing incidents. It presents on-the-job information, techniques, and examples that support successful investigations. Issues related to identification and classification of incidents (including near misses), notifications and initial response, assignment of an investigation team, preservation and control of an incident scene, collecting and documenting evidence, interviewing witnesses, determining what happened, identifying root causes, developing recommendations, effectively implementing recommendation, communicating investigation findings, and improving the investigation process are addressed in the third edition. While the focus of the book is investigating process safety incidents the methodologies, tools, and techniques described can also be applied when investigating other types of events such as reliability, quality, occupational health, and safety incidents.**

Cardiovascular Diseases, Guidelines for Prevention and Care

Modern Accident Investigation and Analysis

John Wiley & Sons **This new edition of a standard in the field is the most complete treatment available on modern methods of accident investigation. The investigation process is divided into three phases: preparation and planning, analytical methods and reporting, and corrective actions designed to prevent recurrence. Techniques discussed are general and can be applied to a wide range of industrial accidents. Topics covered include investigation concepts, the pitfalls of government intervention, legal aspects, multilinear events sequencing, and management oversight and risk tree (MORT). There is new material on the electronic and computer industries and on S-T-E-P accident investigation. A new chapter, ``A Generic Approach to Mishap Investigation,'' puts the entire process in perspective.**

Medical Equipment Maintenance

Management and Oversight

Springer Nature **In addition to being essential for safe and effective patient care, medical equipment also has significant impact on the income and, thus, vitality of healthcare organizations. For this reason, its maintenance and management requires careful supervision by healthcare administrators, many of whom may not have the technical background to understand all of the relevant factors. This book presents the basic elements of medical equipment maintenance and management required of healthcare leaders responsible for managing or overseeing this function. It will enable these individuals to understand their professional responsibilities, as well as what they should expect from their supervised staff and how to measure and benchmark staff performance against equivalent performance levels at similar organizations. The book opens with a foundational summary of the laws,**

regulations, codes, and standards that are applicable to the maintenance and management of medical equipment in healthcare organizations. Next, the core functions of the team responsible for maintenance and management are described in sufficient detail for managers and overseers. Then the methods and measures for determining the effectiveness and efficiency of equipment maintenance and management are presented to allow performance management and benchmarking comparisons. The challenges and opportunities of managing healthcare organizations of different sizes, acuity levels, and geographical locations are discussed. Extensive bibliographic sources and material for further study are provided to assist students and healthcare leaders interested in acquiring more detailed knowledge. Table of Contents: Introduction / Regulatory Framework / Core Functions of Medical Equipment Maintenance and Management / CE Department Management / Performance Management / Discussion and Conclusions

Careers in Biomedical Engineering

Academic Press **Careers in Biomedical Engineering offers readers a comprehensive overview of new career opportunities in the field of biomedical engineering. The book begins with a discussion of the extensive changes which the biomedical engineering profession has undergone in the last 10 years. Subsequent sections explore educational, training and certification options for a range of subspecialty areas and diverse workplace settings. As research organizations are looking to biomedical engineers to provide project-based assistance on new medical devices and/or help on how to comply with FDA guidelines and best practices, this book will be useful for undergraduate and graduate biomedical students, practitioners, academic institutions, and placement services. Explores various positions in the field of biomedical engineering, including highly interdisciplinary fields, such as CE/IT, rehabilitation engineering and neural engineering Offers readers informative case studies written by the industry's top professionals, researchers and educators Provides insights into how educational, training and retraining programs are changing to meet the needs of quickly evolving professions**

Biomedical Engineering Design

Academic Press **Biomedical Engineering Design presents the design processes and practices used in academic and industry medical device design projects. The first two chapters are an overview of the design process, project management and working on technical teams. Further chapters follow the general order of a design sequence in biomedical engineering, from problem identification to validation and verification testing. The first seven chapters, or parts of them, can be used for first-year and sophomore design classes. The next six chapters are primarily for upper-level students and include in-depth discussions of detailed design, testing, standards, regulatory requirements and ethics. The last two chapters summarize the various activities that industry engineers might be involved in to commercialize a medical device. Covers subject matter rarely addressed in other BME design texts, such as packaging design, testing in living systems and sterilization methods Provides instructive examples of how technical, marketing, regulatory, legal, and ethical requirements inform the design process Includes numerous examples from both industry and academic design projects that highlight different ways to navigate the stages of design as well as document and communicate design decisions Provides comprehensive coverage of the design process, including methods for identifying unmet needs, applying Design for ‘X’, and incorporating standards and design controls Discusses topics that prepare students for careers in medical device design or other related medical fields**

Patient Safety

Investigating and Reporting Serious Clinical Incidents

CRC Press **At a time of increasing regulatory scrutiny and medico-legal risk, managing serious clinical incidents within primary care has never been more important. Failure to manage appropriately can have serious consequences both for service organisations and for individuals involved. This is the first book to provide detailed guidance on how to conduct incident investigations in primary care. The concise guide explains how to recognise a serious clinical incident, how to conduct a root cause analysis investigation, and how and when duty of candour applies covers the technical aspects of serious incident recognition and report writing includes a wealth of practical advice and 'top tips', including how to manage the common pitfalls in writing reports offers practical advice as well as some new and innovative tools to help make the RCA process easier to follow explores the all-important human factors in clinical incidents in detail, with multiple examples and worked-through cases studies as well as in-depth sample reports and analysis. This book offers a master class for anyone performing RCA and aiming to demonstrate learning and service improvement in response to serious clinical incidents. It is essential reading for any clinical or governance leads in primary care, including GP practices, 'out-of-hours', urgent care centres, prison health and NHS 111. It also offers valuable insights to any clinician who is in**

training or working at the coal face who wishes to understand how serious clinical are investigated and managed.

Aircraft accident and incident notification, investigation, and reporting

Strengthening Forensic Science in the United States

A Path Forward

National Academies Press **Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.**

New Scientist

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services

Safety and Human Error in Engineering Systems

CRC Press **In an approach that combines coverage of safety and human error into a single volume, Safety and Human Error in Engineering Systems eliminates the need to consult many different and diverse sources for those who need information about both topics. The book begins with an introduction to aspects of safety and human error and a discussion of mathematical concepts that builds understanding of the material presented in subsequent chapters. The author describes the methods that can be used to perform safety and human error analysis in engineering systems and includes examples, along with their solutions, as well as problems to test reader comprehension. He presents a total of ten methods considered useful for performing safety and human error analysis in engineering systems. The book also covers safety and human error transportation systems, medical systems, and mining equipment as well as robots and software. Nowadays, engineering systems are an important element of the world economy as each year billions of dollars are spent to develop, manufacture, and operate various types of engineering systems around the globe. A rise in accidental deaths has put the spotlight on the role human error plays in the safety and failure of these systems. Written by an expert in various aspects of healthcare, engineering management, design, reliability, safety, and quality, this book provides tools and techniques for improving engineering systems with respect to human error and safety.**

Root Cause Analysis Handbook

A Guide to Effective Incident Investigation

Rothstein Associates Inc **Root Cause Analysis Handbook: A Guide to Effective Incident Investigation presents a proven system designed for investigating, categorizing, and ultimately eliminating, rootcauses of incidents with safety, health, environmental, quality, reliability, and production-process impacts.Defined as a tool to help investigators describe what happened, to determine how it happened, and to understand why it happened, the Root Cause Analysis System enables businesses to generate specific, concrete recommendations for preventing incident recurrences.Using the factual data of the incident, the system also allows quality, safety, and risk and reliability managers an opportunity to implement more reliable and more cost-effective policies that result in major, long-term opportunities for improvement.Such process improvements increase a business' ability to recover from and prevent disasters with both financial and health-and-safety implications.Special features include a 17 inch by 22 inch pull-out Root Cause Map, a powerful tool for identifying and coding root causes.The book helps readers to understand why root causes are important, to identify and define inherent problems, to collect data for problem solving, to analyze data for root causes, and to generate practical recommendations.- - - - - - This edition is a reprinting of the 199 edition.- - - - - -ORGANIZATION OF THE ROOT CAUSE ANALYSIS HANDBOKThe focus of this handbook is on the application of the Root Cause Map to the root cause analysis process. The Root Cause Map is used in one of the later steps of the root cause analysis process to identify the underlying management systems that caused the event to occur or made the consequences of the event more severe. The first five chapters of this handbook are an overview of the root cause analysis process. These provide the context for use of the Root Cause Map. Chapter 6 provides references.Chapter 1, "Introduction to Root Cause Analysis," presents a basic overview of the SOURCE (Seeking Out the Underlying Root Causes of Events) root cause analysis process.Chapter 2, "Collecting and Preserving Data for Analysis," outlines the types of data and data sources that are available. Chapters 3, 4, and 5 describe the three major steps in the rootcause analysis process.?Chapter 3, "Data Analysis Using Causal Factor Charting," provides a step-by-step description of causal factor charting techniques. Chapter 4, "Root Cause Identification," explains the organization and use of the Root Cause Map. Chapter 5, "Recommendation Generation and Implementation," provides guidance on developing and implementing corrective actions. The references section, Chapter 6, provides additional information for those interested in learning more about specific items contained in the handbook.Appendix A, "Root Cause Map Node Descriptions," describes each segment of the Root Cause Map and presents detailed descriptions of the individual nodes on the map. AppendixB is the Root Cause Map itself.**

Handbook of Human Factors and Ergonomics in Health Care and Patient Safety, Second Edition

CRC Press **The first edition of Handbook of Human Factors and Ergonomics in Health Care and Patient Safety took the medical and ergonomics communities by storm with in-depth coverage of human factors and ergonomics research, concepts, theories, models, methods, and interventions and how they can be applied in health care. Other books focus on particular human factors and ergonomics issues such as human error or design of medical devices or a specific application such as emergency medicine. This book draws on both areas to provide a compendium of human factors and ergonomics issues relevant to health care and patient safety. The second edition takes a more practical approach with coverage of methods, interventions, and applications and a greater range of domains such as medication safety, surgery, anesthesia, and infection prevention. New topics include: work schedules error recovery telemedicine workflow analysis simulation health information technology development and design patient safety management Reflecting developments and advances in the five years since the first edition, the book explores medical technology and telemedicine and puts a special emphasis on the contributions of human factors and ergonomics to the improvement of patient safety and quality of care. In order to take patient safety to the next level, collaboration between human factors professionals and health care providers must occur. This book brings both groups closer to achieving that goal.**

Guidelines for Investigating Chemical Process Incidents

John Wiley & Sons **This book provides a valuable reference tool for technical and management personnel who lead or are a part of incident investigation teams. This second edition focuses on investigating process-related incidents with real or potential catastrophic consequences. It presents on-the-job information, techniques, and examples that support successful investigations. The methodologies, tools, and techniques described in this book can also be applied when investigating other types of events such as reliability, quality,**

occupational health, and safety incidents. The accompanying CD-ROM contains the text of the book for portability as well as additional supporting tools for on-site reference and trouble shooting. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Nursing Times, Nursing Mirror

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Essentials for Quality and Safety Improvement in Health Care

A Resource for Developing Countries

Springer Nature **Patient safety and quality improvement in health care remain a global priority. Subpar performance in health care, however, is still common more than a decade after the christening of patient safety in Africa. The core principle of safety and quality improvement systems is to identify and assess the root cause of failures in order to learn from them and devise a means to improve and to avoid recurrence. This book is designed to encourage, facilitate and empower healthcare workers in the development and implementation of strategically driven patient safety and quality improvement initiatives for safer healthcare systems and healthcare facilities in low- and middle-income countries (LMICs) of Africa.^It also highlights some of the profound challenges and barriers to designing and implementing patient safety and quality improvement interventions or programmes in the region and reiterates the need to remain focused and determined to work out solutions with confidence and overcome these barriers. In the book, chapters highlight six essential components crucial for achieving evolutionary progress in safety and quality improvement in a healthcare system: Standard operating procedure Audit Research Safety management Quality management Evaluation Practical steps in planning and conducting these six essential components are outlined with some specific features to aid learning and facilitate their implementation. The authors have experience and expertise in the medical practice gained in Africa and a decade of knowledge and experience from consultancy work in safety and quality improvement in health care within and outside the region.^Essentials for Quality and Safety Improvement in Health Care: A Resource for Developing Countries is authored for both medical professionals and those from other professions who are interested in and enthusiastic about patient safety and healthcare quality and therefore willing to build a career in this field. It is relevant to all health institutions, health and non-health workers, and can be used as a checklist while rendering quality and safe health care.**

Advances in Human Factors and Ergonomics in Healthcare and Medical Devices

Proceedings of the AHFE 2020 Virtual Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, July 16-20, 2020, USA

Springer Nature **This book explores how human factors and ergonomic principles are currently transforming healthcare. It reports on the design of systems and devices used to improve the quality, safety, efficiency and effectiveness of patient care, and discusses findings on improving organizational outcomes in the healthcare setting, as well as approaches to analyzing and modeling those work aspects that are unique to healthcare. Based on papers presented at the AHFE 2020 Virtual Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, held on July 16–20, 2020, the book highlights the physical, cognitive and organizational aspects of human factors and ergonomic applications, and shares various perspectives, including those of clinicians, patients, health organizations and insurance providers. Given its scope, the book offers a timely reference guide for researchers involved in the design of medical systems and healthcare professionals managing healthcare settings, as well as healthcare counselors and international health organizations.**

Clinical Engineering Handbook

Academic Press **Clinical Engineering Handbook, Second Edition, covers modern clinical engineering topics, giving experienced professionals the necessary skills and knowledge for this fast-evolving field. Featuring insights from leading international experts, this book presents traditional practices, such as healthcare technology management, medical device service, and technology application. In addition, readers will find valuable information on the newest research and groundbreaking developments in clinical engineering, such as health technology assessment, disaster preparedness, decision support systems, mobile medicine, and prospects and guidelines on the future of clinical engineering. As the biomedical engineering field expands throughout the world, clinical engineers play an increasingly important role as translators between the medical, engineering and business professions. In addition, they influence procedures and policies at research facilities, universities, and in private and government agencies. This book explores their current and continuing reach and its importance. Presents a definitive, comprehensive, and up-to-date resource on clinical engineering Written by worldwide experts with ties to IFMBE, IUPESM, Global CE Advisory Board, IEEE, ACCE, and more Includes coverage of new topics, such as Health Technology Assessment (HTA), Decision Support Systems (DSS), Mobile Apps, Success Stories in Clinical Engineering, and Human Factors Engineering**

Management of Medical Technology

A Primer for Clinical Engineers

Butterworth-Heinemann **Management of Medical Technology: A Primer for Clinical Engineers introduces and examines the functions and activities of clinical engineering within the medical environment of the modern hospital. The book provides insight into the role that clinical engineers play in the management of medical technology. Topics covered include the history, job functions, and the professionalization of clinical engineering; safety in the clinical environment; management of hospital equipment; assessment and acquisition of medical technologies; preparation of a business plan for the clinical engineering department; and the moral and ethical issues that surround the delivery of health-care. Clinical engineers and biomedical engineers will find the book as a great reference material.**

Accident investigation guidelines

general compliance manual. Part IV, chapter 9

OECD Reviews of Health Care Quality: Portugal 2015 Raising Standards

Raising Standards

OECD Publishing **This report reviews the quality of health care in Portugal, seeks to highlight best practices, and provides a series of targeted assessments and recommendations for further improvements to quality of care.**

Medical Equipment Management Manual

How to be in Complete and Continuous Compliance with the JCAHO Standards

Association for the Advancement of Medical Instrumentation (AAMI)

Medical Equipment Maintenance

Management and Oversight

Morgan & Claypool Publishers **In addition to being essential for safe and effective patient care, medical equipment also has significant impact on the income and, thus, vitality of healthcare organizations. For this reason, its maintenance and management requires careful supervision by healthcare administrators, many of whom may not have the technical background to understand all of the relevant factors. This book presents the basic elements of medical equipment maintenance and management required of healthcare leaders responsible for managing or overseeing this function. It will enable these individuals to understand their professional responsibilities, as well as what they should expect from their supervised staff and how to measure and benchmark staff performance against equivalent performance levels at similar organizations. The book opens with a foundational summary of the laws, regulations, codes, and standards that are applicable to the maintenance and management of medical equipment in healthcare organizations. Next, the core functions of the team responsible for maintenance and management are described in sufficient detail for managers and overseers. Then the methods and measures for determining the effectiveness and efficiency of equipment maintenance and management are presented to allow performance management and benchmarking comparisons. The challenges and opportunities of managing healthcare organizations of different sizes, acuity levels, and geographical locations are discussed. Extensive bibliographic sources and material for further study are provided to assist students and healthcare leaders interested in acquiring more detailed knowledge. Table of Contents: Introduction / Regulatory Framework / Core Functions of Medical Equipment Maintenance and Management / CE Department Management / Performance Management / Discussion and Conclusions**

Root Cause Analysis Handbook

A Guide to Efficient and Effective Incident Investigation

Rothstein Publishing **Are you trying to improve performance, but find that the same problems keep getting in the way? Safety, health, environmental quality, reliability, production, and security are at stake. You need the long-term planning that will keep the same issues from recurring. Root Cause Analysis Handbook: A Guide to Effective Incident Investigation is a powerful tool that gives you a detailed step-by-step process for learning from experience. Reach for this handbook any time you need field-tested advice for investigating, categorizing, reporting and trending, and ultimately eliminating the root causes of incidents. It includes step-by-step instructions, checklists, and forms for performing an analysis and enables users to effectively incorporate the methodology and apply it to a variety of situations. Using the structured techniques in the Root Cause Analysis Handbook, you will: Understand why root causes are important. Identify and define inherent problems. Collect data for problem-solving. Analyze data for root causes. Generate practical recommendations. The third edition of this global classic is the most comprehensive, all-in-one package of book, downloadable resources, color-coded RCA map, and licensed access to online resources currently available for Root Cause Analysis (RCA). Called by users "the best resource on the subject" and "in a league of its own." Based on globally successful, proprietary methodology developed by ABS Consulting, an international firm with 50 years' experience in 35 countries. Root Cause Analysis Handbook is widely used in corporate training programs and college courses all over the world. If you are responsible for quality, reliability, safety, and/or risk management, you'll want this comprehensive and practical resource at your fingertips. The book has also been selected by the American Society for Quality (ASQ) and the Risk and Insurance Society (RIMS) as a "must have" for their members.**