



## Medical Equipment Management (Series in Medical Physics and Biomedical Engineering)

By Keith Willson, Keith Ison, Slavik Tabakov

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*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.

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### Editorial Review

#### Review

"This book is excellent. It is easy to read and a great tool for clinical engineers, biomedical engineers, and every healthcare provider who is involved in the management of medical equipment. This book was very well needed by managers but also by those who are studying clinical engineering. Vendor organizations and manufacturers of medical devices should also read this book and understand how healthcare organizations operate."

?Jean Ngoie, C.Eng., Regional Manager Biomedical Engineering, Niagara Health System, St. Catharines, Ontario, Canada

"This book contains precisely the information needed by clinical engineers, either studying in academia or working in the healthcare environment. It provides all the knowledge to develop most of the activities today under the responsibility of a clinical engineering group. What most caught my attention is that it teaches not only WHAT must be done to develop such activities but also gives you hints on HOW they should be developed."

?Saide Jorge Calil, MSc, PhD, Chairman of the Clinical Engineering Division, International Federation for Medical and Biological Engineering (IFMBE), and Professor of Biomedical Engineering, University of Campinas (UNICAMP), Brazil

"An excellent timely book that details the underlying principles required for the interesting, exciting, and important art and science of medical equipment management.

Covering the breadth and depth of the discipline, the book proceeds from an introduction to the field and its underlying principles before detailed examinations of the key aspects: the equipment lifecycle, risk regulation and governance, approaches to managing equipment, purchase and replacement, evaluation, staff training, assessing maintenance requirements and contract management, and how to manage and investigate incidents when problems occur with medical devices. How to support innovation and R&D and the necessary associated governance considerations are covered, recognising that innovation involves supporting development of novel equipment, and also the application of equipment in novel ways, including ways not envisaged by the original maker. Equipment disposal is often ignored and a chapter devoted to this important topic discusses the underlying principles and regulations, including environmental considerations. The final chapter deals with performance monitoring, benchmarking, and performance indicators?important tools to guide professionals in assessing their work and that of the team. The penultimate chapter guides professionals to sources of information, including professional societies, that will support them performing and developing their work.

Who will benefit from this book? Clearly those managing medical equipment from day-to-day, both leaders and practitioners, will benefit. It will guide and instruct students. It is also important for those who manage and direct those involved in medical equipment management. ... important for senior healthcare managers, medical and nursing directors, chief executives, and board members with responsibility for medical equipment. It will also benefit clinical professionals who interact with medical equipment managers."

? John N. Amooe, PhD, Department of Medical Physics, Crosshouse Hospital, Kilmarnock, Scotland

#### About the Author

Imperial College, London, UK King's College Hospital, London, UK King's College London, Strand, UK

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#### Anita Sizemore:

In this era which is the greater man or woman or who has ability in doing something more are more important than other. Do you want to become certainly one of it? It is just simple strategy to have that. What you have to do is just spending your time very little but quite enough to enjoy a look at some books. Among the books in the top checklist in your reading list will be Medical Equipment Management (Series in Medical Physics and Biomedical Engineering). This book which can be qualified as The Hungry Hills can get you

closer in turning into precious person. By looking up and review this reserve you can get many advantages.

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