



Clinical Simulation

By Richard Kyle, W. Bosseau Murray

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Simulation facilities are invaluable for training in medicine and clinical education, biomedical engineering and life sciences. They allow the practice of prevention, containment, treatment, and procedure in a risk-free setting.

This book is a practical guide and reference to the latest technology, operations and opportunities presented by clinical simulation. It shows how to develop and make efficient use of resources, and provides hands-on information to those tasked with setting up and delivering simulation facilities for medical, clinical and related purposes, and the development and delivery of simulation-based education programs

- A step-by-step manual to developing successful simulation programs
- Shows how to design, construct, outfit and run simulation facilities for clinical education and research.
- The Residency Review Committee of the US Accreditation Council on Graduate Medical Education has begun requiring residency programs to have simulation as an integral part of their training programs.

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Editorial Review

Review

'This book fills a clamoring need as the science of simulation achieves acceptance by the healthcare field'

Richard M. Satava, M.D., Professor, Department of Surgery, University of Washington, US

From the Back Cover

The most comprehensive guide to the what, the how and the why of clinical simulation

Key features

" Shows how to combine operations, engineering and management for successful clinical simulation for medical, surgical, clinical and health care purposes.

" Enables readers to benefit from a wealth of hard-won experiences and lessons learned from leading international practitioners.

" 82 chapters, arranged in 22 key topics provide a comprehensive reference for all working in this dynamic field.

" Identifies the main challenges, and aids the effective and efficient development and delivery of clinical simulation programs, systems and solutions.

" Accompanying website at <http://books.elsevier.com/companions>

Simulations are a core element of training in medicine, surgery, clinical care, biomedical engineering and the medical sciences. They allow the practice of safety, prevention, containment, treatment, and procedure in a risk-free setting.

This book is a practical guide and reference to the technology, operations and opportunities of clinical simulation. It shows how to develop and make efficient use of resources and provides practical information to those creating and operating simulation facilities as well as the development and delivery of simulation-based education programs.

Richard R. Kyle, Jr., BSE, MS, is Director of the Patient Simulation Laboratory at the Uniformed Services University of the Health Sciences (USU), Bethesda, MD. He is a co-founder of USU's first patient simulation facility, producer of its simulation-based educational and research programs, and teacher to a worldwide audience on the theory and practice of integrating simulation into clinical training.

W. Bosseau Murray, MB ChB, FFA(RCS)(Lon), MD(Anaes)(Stell), is Professor of Anesthesiology at Penn State University College of Medicine at Milton S. Hershey Medical Centre, Hershey, PA. He is a creator and user of custom clinical simulators, the first Director of the Simulation Development and Cognitive Science Laboratory, and the creator of their multi-departmental teamwork training programs.

About the Author

Background: • Educator and scientist at USUHS since 1982 • Co-founder and director of USUHS's first patient simulation facility and simulation-based educational and research programs, 1997; • Consultant to world-wide DoD clinical education community for simulation facility creation and program development, 1998 - present; • Reviewer on simulation, WMD preparedness and adult education for the Journal of American Medical Association and for the American Journal of Infection Control, 2005 **Memberships:** Society for Medical Simulation (SocMedSim)- Development and Research Committee; Society for Education in Anesthesia (SEA); Society of Critical Care Medicine (SCCM); Institute of Electrical and

Electronics Engineers (IEEE)

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