

## **Aia Guidelines For Healthcare Facilities 2006**

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Design That Cares  
Planning, Design, and Construction of Health Care Facilities  
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Sustainable Healthcare Architecture  
Jonas and Kovner's Health Care Delivery in the United States, 12th Edition  
Guidelines for Construction and Equipment of Hospital and Medical Facilities  
Healthcare Design

### **Gardens in Healthcare Facilities**

Guidelines for Laboratory Design: Health and Safety Considerations, Third Edition provides reliable design information related to specific health and safety issues that need to be considered when building or renovating laboratories."

### **WHO Guidelines on Hand Hygiene in Health Care**

The latest update of professional standards for architects designing medical facilities or equipment, last revised in 1987. In sections on general hospitals, nursing facilities, mobile units, and other contexts, specifies requirements for such elements as critical care units, nuclear medicine, laundry, employee lounges, and elevators. No index or bibliography. Annotation copyright by Book News, Inc., Portland, OR

### **Evidence-Based Design for Healthcare Facilities**

### **Green Healthcare Institutions**

This product of the Facility Guidelines Institute (FGI) provides minimum standards for design and construction of hospitals and outpatient facilities. The standards for

long-term care facilities will appear in a new document for 2014; please see the entry for Guidelines for Design and Construction of Residential Health, Care, and Support Facilities. Included in the Guidelines for Hospitals and Outpatient Facilities is information on the planning, design, construction, and commissioning process and facility requirements for both hospitals and outpatient facilities. Included are general hospitals, psychiatric hospitals, and rehabilitation facilities as well as new chapters on children's and critical access hospitals. Outpatient facilities covered include primary care facilities; outpatient surgery facilities; birth centers; urgent care centers; mobile units; outpatient psychiatric and rehabilitation centers; facilities for endoscopy, dialysis, and cancer treatment; and a new chapter on dental facilities. In addition, the 2014 Guidelines includes new material on safety risk assessments and medication safety zones; increased requirements for commissioning infrastructure systems; and updated requirements for surgery, imaging, endoscopy, and dialysis facilities as well as primary care facilities and freestanding emergency facilities.

### **Sound & Vibration 2.0**

The projects in these books present the best current work in the field of design for the aging. The buildings featured (each one has been specially selected by the AIA jury) include continuing care retirement communities, assisted living facilities as well as combined use facilities.

### **Construction and Renovation**

"With this book, Robin Guenther and Gail Vittori show us how critical our green building mission is to the future of human health and secures a lasting legacy that will continue to challenge and focus the green building movement, the healthcare industry, and the world for years to come." —From the Foreword by Rick Fedrizzi, President, CEO and Founding Chair, U.S. Green Building Council

**INDISPENSABLE REFERENCE FOR THE FUTURE OF SUSTAINABLE HEALTHCARE DESIGN** Written by a leading healthcare architect named one of Fast Company's 100 most creative people in business and a sustainability expert recognized by Time magazine as a Green Innovator, *Sustainable Healthcare Architecture, Second Edition* is fully updated to incorporate the latest sustainable design approaches and information as applied to hospitals and other healthcare facilities. It is the essential guide for architects, interior designers, engineers, healthcare professionals, and administrators who want to create healthy environments for healing. Special features of this edition include: 55 new project case studies, including comparisons of key sustainability indicators for general and specialty hospitals, sub-acute and ambulatory care facilities, and mixed-use buildings. New and updated guest contributor essays spanning a range of health-focused sustainable design topics. Evolving research on the value proposition for sustainable healthcare buildings. Profiles of five leading healthcare systems and their unique sustainability journeys, including the UK National Health Service, Kaiser Permanente, Partners HealthCare, Providence Health & Services, and Gundersen Health System. Focus on the intersection of healthcare, resilience, and a health promotion imperative in the face of extreme weather events. Comparison of healthcare facility-focused green building ratings systems from around the world.

*Sustainable Healthcare Architecture, Second Edition* is an indispensable resource for anyone interested in the

design, construction, and operation of state-of-the-art sustainable healthcare facilities.

## **Guidelines for Design and Construction of Hospital and Health Care Facilities**

This fully updated and revised 12th edition of the highly acclaimed textbook on health care delivery provides graduate and undergraduate students with a comprehensive survey of health care in the United States ranging in topics from the organization of care, the politics surrounding healthcare in the United States, to population health and vulnerable populations, healthcare costs and value, health care financing, and health information technology. Chapters provide thorough coverage of the rapid changes that are reshaping our system and the extent of our nation's achievement of health care value and the Triple Aim: better health and better care at a lower cost. With an emphasis on population health and public health, this text includes a timely focus on how social and physical environments influence health outcomes. Prominent scholars, practitioners, and educators within public health, population health, health policy, healthcare management, medical care, and nursing present the most up-to-date evidence-based information on social and behavioral determinants of health and health equity, immigrant health, healthcare workforce challenges, preventative medicine, innovative approaches to control health care costs, initiatives to achieve high quality and value-based care, and much more. Designed for graduate and advanced undergraduate students of health care management and administration, nursing, and public health, the text addresses all complex core issues surrounding our health care system and health policy, such as the challenges to health care delivery, the organization and politics of care, and comparative health systems. Organized in a readable and accessible format, contributors provide an in-depth and objective appraisal of why and how we organize health care the way we do, the enormous impact of health-related behaviors on the structure, function, and cost of the health care delivery system, and other emerging and recurrent issues in health policy, healthcare management, and public health. The 12th edition features the contributions of such luminaries as former editor Anthony R. Kovner, Michael K. Gusmano, Carolyn M. Clancy, Marc N. Gourevitch, Joanne Spetz, James Morone, Karen DeSalvo, and Christy Harris Lemak, among others. Chapters include audio chapter summaries with discussion of newsworthy topics, learning objectives, discussion questions, case exercises, and new charts and tables with concrete health care data. Included for instructors are an Instructor's Manual, PowerPoint slides, Syllabus, Test Bank, Image Bank, Supplemental e-chapter on a Visual Overview of Health Care Delivery, access to an annual ACA update and health policy changes, extra cases and syllabi specifically for nurses, and a transition guide bridging the 11th and 12th editions. Key Features: Three completely revised chapters on the politics of health care, vulnerable populations, and health information technology Chapter authors with expertise in Health Administration and Management, Public Health, Health Policy, Medical Care and Nursing Expanded coverage on population health and population health management, health equity, influences of social determinants on health behavior and outcomes, health education planning, health workforce challenges, national and regional quality improvement initiatives and more Revised e-Chapters providing a Visual Overview of Health Care Delivery with image bank and Springer

Publishing's annual ACA update Audio podcasts provide summaries for each chapter and provide real-world context of topics featured in the news New Appendix on Overview of U.S. Public Health Agencies Access to fully searchable eBook, including extra e-chapters and student ancillaries on Springer Connect Full Instructor Packet including Instructor's Manual, Test Bank, PowerPoint slides, Image Bank, Case Exercises for Nursing Instructors

## **Making Healthy Places**

This document was commissioned by the Facility Guidelines Institute as the sole reference for acoustics in health care facilities. It was written by the Health Care Acoustics Working Group, a permanent committee of the Acoustics Research Council (ARC), comprised of members of leading professional societies in acoustics, noise control engineering, acoustical consulting and related professions. ARC organized the health care Working Group in 2004-5 drawing its members from ten constituencies that range from medicine to law, public policy, architecture, design and engineering in order to provide constructive, guidance on sound and vibration based on research and best practices. Sound and Vibration 2.0 has been adopted as the sole reference standard for acoustics in health care facilities by: the 2010 FGI/ASHE "Guidelines for the Design and Construction of Healthcare Facilities" (used in 60 countries); the US Green Building Council's "LEED for Healthcare" (used in 87 countries); The Green Guide for Health Care V2.2; and the International Code Council's IGCC (2011). Sound and vibration are topics of increasing prominence in the design, construction, and operation of healthcare facilities. A satisfactory acoustical environment in a healthcare facility is now viewed as an essential component of effective healthcare. Sensible acoustical and privacy planning in the early design stages of a healthcare facility project can be solved effectively and affordably with a few strokes of the designer's pencil. The recommended minimum design requirements presented in this work are therefore intended to aid designers in achieving satisfactory acoustical and privacy environments in healthcare facilities. This handbook includes comprehensive, practical, and measurable guidelines for all aspects of acoustics in the design, construction, and evaluation of all types of healthcare facilities, including large general hospitals, specialized patient care facilities, and ambulatory patient care facilities.

## **Practical Healthcare Epidemiology**

### **Guidelines for Design and Construction of Hospitals and Outpatient Facilities 2014**

This interdisciplinary guide offers background, research findings, and practical strategies for assessing and improving air quality in hospitals and other healthcare settings. Positing good air quality as critical to patient and staff well-being, it identifies disease-carrying microbes, pollutants, and other airborne toxins and their health risks, and provides localized interventions for reducing transmission of pathogens. Effective large-scale approaches to air quality control are also outlined, from green building materials to hygienic HVAC and air treatment practices. Its thoroughness of coverage makes this book a vital resource for professionals

involved in every aspect of health service facilities, from planning and construction to maintenance and management. Among the topics covered: Existing guidelines in indoor air quality: the case study of hospital environments Hospital environments and epidemiology of healthcare-associated infections Analysis of microorganisms in hospital environments and potential risks Legionella indoor air contamination in healthcare environments HVAC system design in healthcare facilities and control of aerosol contaminants Assessment of indoor air quality in inpatient wards Indoor Air Quality in Healthcare Facilities imparts up-to-date expertise to a variety of professional readers, including hospitals' technical and management departments, healthcare facilities' chief medical officers, hospital planners, sport and thermal building designers, public health departments, and students of universities and schools of hygiene.

## **Evidence-Based Design for Healthcare Facilities**

An updated version of a work that has introduced three generations of students and professionals to the state-of-the-art in creating healing environments.

## **Guidelines for Design and Construction of Outpatient Facilities**

Presents detailed richly illustrated guidelines for the planning and design of district hospitals including extensive information on the selection and maintenance of medical and laboratory equipment. The aim is to help administrators and the hospital planning team to make the right decisions when matching needs with resources choosing construction materials or equipment anticipating recurrent costs planning for future expansion and looking for ways to assure that services are both attractive to patients and affordable. The book has two main parts. The first devoted to hospital planning and design presents an overview of the complex planning and design process. Conscious of the need to use scarce resources wisely the book stresses the crucial importance of careful advance planning by a multidisciplinary team. Solutions proposed are intended to facilitate the efficient utilization of space the easy movement of people equipment and supplies and the most cost-effective expansion of facilities at a future date. Readers are also given advice on how to make the best use of economical construction methods and local manpower while at the same time benefiting from the latest technological developments. The second part provides guidelines for selecting the equipment normally required in district hospitals and for assuring regular maintenance. The book also advises technical personnel on the things to look for and procedures to follow during routine preventive maintenance.

## **Building Type Basics for Healthcare Facilities**

## **Construction Management of Healthcare Projects**

Design That Cares: Planning Health Facilities for Patients and Visitors, 3rd Edition is the award-winning, essential textbook and guide for understanding and achieving customer-focused, evidence-based health care design excellence. This updated third edition includes new information about how all aspects of health facility

design – site planning, architecture, interiors, product design, graphic design, and others - can meet the needs and reflect the preferences of customers: patients, family and visitors, as well as staff. The book takes readers on a journey through a typical health facility and discusses, in detail, at each stop along the way, how design can demonstrate care both for and about patients and visitors. Design that Cares provides the definitive roadmap to improving customer experience by design.

## **Healthcare Facility Planning**

Green Healthcare Institutions : Health, Environment, and Economics, Workshop Summary is based on the ninth workshop in a series of workshops sponsored by the Roundtable on Environmental Health Sciences, Research, and Medicine since the roundtable began meeting in 1998. When choosing workshops and activities, the roundtable looks for areas of mutual concern and also areas that need further research to develop a strong environmental science background. This workshop focused on the environmental and health impacts related to the design, construction, and operations of healthcare facilities, which are part of one of the largest service industries in the United States. Healthcare institutions are major employers with a considerable role in the community, and it is important to analyze this significant industry. The environment of healthcare facilities is unique; it has multiple stakeholders on both sides, as the givers and the receivers of care. In order to provide optimal care, more research is needed to determine the impacts of the built environment on human health. The scientific evidence for embarking on a green building agenda is not complete, and at present, scientists have limited information. Green Healthcare Institutions : Health, Environment, and Economics, Workshop Summary captures the discussions and presentations by the speakers and participants; they identified the areas in which additional research is needed, the processes by which change can occur, and the gaps in knowledge.

## **Establishing Private Health Care Facilities in Developing Countries**

\* Evidence-based design based on healthcare research and best practices. More than 1,000 research studies suggest healthcare design can improve patient care and medical outcomes and can decrease medical errors and waste. \* Includes coverage on healing environments, family-centered care, benchmarking, sustainability (green practices), aesthetics, and working with design firms. \* Contributors include planners and architects from the award-winning, international architectural firm, HDR.

## **Architecture and Health**

### **Guidelines for Design and Construction of Hospitals**

A complete, practical guide to managing healthcare facility construction projects Filled with best practices and the latest industry trends, Construction Management of Healthcare Projects describes the unique construction requirements of hospitals,

including building components, specialized functions, codes, and regulations. Detailed case studies offer invaluable insight into the real-world application of the concepts presented. This authoritative resource provides in-depth information on how to safely and successfully deliver high-quality healthcare construction projects on time and within budget. Coverage includes: Regulations and codes impacting hospitals Planning and predesign Project budgeting Business planning and pro formas Healthcare project financing Traditional delivery methods for healthcare projects Modern project delivery methods and alternate approaches The challenges of additions and renovations Mechanical and electrical systems in hospitals Medical technology and information systems Safety and infection control Commissioning of healthcare projects Occupying the project The future of healthcare construction

## **District Health Facilities**

This guideline defines ventilation and then natural ventilation. It explores the design requirements for natural ventilation in the context of infection control, describing the basic principles of design, construction, operation and maintenance for an effective natural ventilation system to control infection in health-care settings.

## **Guidelines for Design and Construction of Residential Health, Care, and Support Facilities**

## **Hospital and Healthcare Facility Design**

Reflecting the most current thinking about infection control and the environment of care, this new edition also explores functional, space, and equipment requirements for acute care and psychiatric hospitals; nursing, outpatient, and rehabilitation facilities; mobile health care units; and facilities for hospice care, adult day care, and assisted living. [Editor, p. 4 cov.]

## **Hospital and Healthcare Facility Design**

\* Evidence-based design based on healthcare research and best practices. More than 1,000 research studies suggest healthcare design can improve patient care and medical outcomes and can decrease medical errors and waste. \* Includes coverage on healing environments, family-centered care, benchmarking, sustainability (green practices), aesthetics, and working with design firms. \* Contributors include planners and architects from the award-winning, international architectural firm, HDR.

## **Emergency Department Design**

The cornerstone guide for designing tomorrow's medical imaging facilities The Architecture of Medical Imaging is the foremost guide to the design of state-of-the-art medical imaging facilities for radiography, MRI, and CT and PET scans. Written by an industry expert, this useful resource discusses complex issues in a user-

friendly language that is fully understandable to healthcare planners, department heads, and executives. No other reference makes it easier to understand the technical requirements of radiological equipment and procedures. The Architecture of Medical Imaging is divided into six convenient parts: \* Part 1 explains the importance of quality design and how it relates to changes in the healthcare and medical imaging industries \* Part 2 describes how to organize and manage an architectural project from the owner's perspective \* Part 3 presents the vast range of today's imaging techniques, as well as those still in research and development \* Part 4 addresses important planning and design concepts for medical imaging facilities \* Part 5 discusses medical imaging trends and their impact on facility design \* Part 6 provides useful appendices that examine specific imaging facility projects

## **Guidelines for Laboratory Design**

### **Hospitals and Medical Facilities**

Practical Healthcare Epidemiology takes a hands-on approach to infection prevention for physicians, healthcare epidemiologists, infection preventionists, microbiologists, nurses, and other healthcare professionals. Increased regulatory requirements and patient knowledge and involvement has elevated patient safety, healthcare-associated infections, antibiotic stewardship and quality-of-care to healthcare wide issues. This fully updated new edition brings together the expertise of leaders in healthcare epidemiology to provide best practice expert guidance on infection prevention for adult and pediatric patients in all types of healthcare facilities, from community hospitals and academic institutions, to long-term care and resource limited settings. Written in clear, straightforward terms to address prevention planning and immediate responses to specific situations, this is the go-to resource for any practitioners in medicine or public health involved in infection prevention, regardless of their current expertise in the field.

### **The Architecture of Medical Imaging**

A state-of-the-art blueprint for architects, planners, and hospital administrators, Hospital and Healthcare Facility Design provides innovative ideas and concrete guidelines for planning and designing facilities for the rapidly changing healthcare system.

### **Design for Mental and Behavioral Health**

Comprehensive coverage of healthcare design fundamentals--from the field's top professionals Healthcare Design examines all of the basic elements necessary to create physical environments that enhance the quality of healthcare delivery. Written by practicing professionals, educators, and other experts in the field, this book is an essential cornerstone for anyone building a career in healthcare design. Combining important concepts with practical guidance, this definitive resource: \* Covers planning, designing, and furnishing of cost-effective, efficient facilities that serve patient needs \* Contains product specification information for a range of



design components--from floorcoverings and ceilings to furniture, lighting, textiles, and more \* Addresses current topics such as wayfinding, green design, healing art, and therapeutic effects of landscape architecture \* Features a wide selection of photographs, including an eight page full-color insert As massive changes in healthcare financing and delivery sweep the industry, the question of how to create facilities that address market considerations, satisfy government regulations, and accommodate patient needs is setting the agenda for today's healthcare design professionals. Healthcare Design is the first comprehensive source of the basic information and resources necessary to plan, design, and furnish efficient physical environments that facilitate quality healthcare delivery. Written for architects, designers, and planners who are new to this growing field, the book presents key contributions from leading experts within an overall framework based on the healthcare design certificate program offered by New York University. Practical ideas are provided for every stage of the design process--from site visits and programming to design implementation and evaluation. You'll also find extensive product guidance and coverage of new trends such as green design and therapeutic effects of landscape architecture. The photographs that accompany the text--many in color--vividly illustrate the design concepts while showcasing the work of some of the best professionals in the business. Well-organized and clearly written, Healthcare Design is a valuable reference for anyone taking on the exciting design challenges in healthcare today.

### **Guidelines for Design and Construction of Health Care Facilities**

A new book from ACEP that will help you participate effectively-or lead the way-in the successful design of your emergency department. Emergency Department Design will teach you the design and planning process so that you and other caregivers can make decisions about what's best for your department. Whether you're building a new department, remodeling an existing one, expanding, or simply adding a new service, the critical decisions you'll make must be based on an understanding of the design process. Time and time again, the best results are achieved when caregivers drive this process, working with design professionals to plan not just for today's patients, but also for those of the future. Read this book and learn how to: Assess your space needs Set physical design goals that meet operational outcomes Define the scope of your project Select a design professional Evaluate the "workability" of proposed design solutions and much more. You'll minimize the complexity of the challenge, reduce wasted time, and focus on creating a design that fulfills your vision of how emergency care should be provided. The author is Jon Huddy, AIA, with FreemanWhite, Inc., a nationally renowned architectural firm specializing in emergency department design. Mr. Huddy brings a passion for emergency department design, a commitment to include caregivers in the design process, and an entertaining, energetic presentation style to this book. Michael T. Rapp, MD, JD, FACEP, past president of ACEP, served as editor and contributed his insights in a special introductory chapter, "The Emergency Physician's Perspective." Plus, more than 20 other emergency care professionals and architects have contributed case studies and "pearls and pitfalls" from their own personal experiences with emergency department design projects.

### **Design for Aging Review 2**

The environment that we construct affects both humans and our natural world in myriad ways. There is a pressing need to create healthy places and to reduce the health threats inherent in places already built. However, there has been little awareness of the adverse effects of what we have constructed-or the positive benefits of well designed built environments. This book provides a far-reaching follow-up to the pathbreaking *Urban Sprawl and Public Health*, published in 2004. That book sparked a range of inquiries into the connections between constructed environments, particularly cities and suburbs, and the health of residents, especially humans. Since then, numerous studies have extended and refined the book's research and reporting. *Making Healthy Places* offers a fresh and comprehensive look at this vital subject today. There is no other book with the depth, breadth, vision, and accessibility that this book offers. In addition to being of particular interest to undergraduate and graduate students in public health and urban planning, it will be essential reading for public health officials, planners, architects, landscape architects, environmentalists, and all those who care about the design of their communities. Like a well-trained doctor, *Making Healthy Places* presents a diagnosis of--and offers treatment for--problems related to the built environment. Drawing on the latest scientific evidence, with contributions from experts in a range of fields, it imparts a wealth of practical information, with an emphasis on demonstrated and promising solutions to commonly occurring problems.

### **Planning, Design, and Construction of Health Care Facilities**

Studies confirm that the physical environment influences health outcomes, emotional state, preference, satisfaction and orientation, but very little research has focused on mental and behavioural health settings. This book summarizes design principles and design research for individuals who are intending to design new mental and behavioural health facilities and those wishing to evaluate the quality of their existing facilities. The authors discuss mental and behavioural health systems, design guidelines, design research and existing standards, and provide examples of best practice. As behavioural and mental health populations vary in their needs, the primary focus is limited to environments that support acute care, outpatient and emergency care, residential care, veterans, pediatric patients, and the treatment of chemical dependency.

### **Indoor Air Quality in Healthcare Facilities**

This book is a practical guide for medical professionals with little or no business experience who are interested in establishing health care facilities in developing countries. It is an introduction to the kinds of basic research and planning required to identify viable solutions and reduce the risk of failure.

### **HVAC Design Manual for Hospitals and Clinics**

Architecture and Health recognizes the built environment and health as inextricable encouraging a new mind-set for the profession. Over 40 international award-winning projects are included to explore innovative design principles linked to health outcomes. The book is organized into three interdependent health

domains—individual, community, and global—in which each case study proposes context-specific architectural responses. Case studies include children’s hospitals, rehabilitation facilities, elderly housing, mental health facilities, cancer support centers, clinics, healthy communities, healthcare campuses, wellness centers, healing gardens, commercial offices, infrastructure for developing countries, sustainable design, and more. Representing the United States, Africa, Asia, Europe, and Australia, each author brings a new perspective to health and its related architectural response. This book brings a timely focus to a subject matter commonly constricted by normative building practices and transforms the dialogue into one of creativity and innovation. With over 200 color images, this book is an essential read for architects, designers, and students to explore and analyze designed environments that promote health and well-being.

## **Natural Ventilation for Infection Control in Health-care Settings**

This Construction and Design Manual showcases all aspects of planning hospitals, medical practices, and pharmacies. Around 50 projects are presented in their entirety, accompanied by large photographs, true to scale floor plans, and coloured diagrams. The volume also features scientific contributions concerning methods of planning and questions of design. Additional essays on architectural history and typological classifications make this book, spanning over 400 pages, an indispensable reference work for everyone with an interest in hospital architecture and healthcare design. > Construction data, planning parameters, and regulations for hospitals and medical facilities > True to scale floor plans for different building types and scientific comments > Essential for healthcare design, architecture, and medical administration

## **Design That Cares**

"Provides in-depth design recommendations and proven, cost effective, and reliable solutions for health care HVAC design that provide low maintenance cost and high reliability based on best practices from consulting and hospital engineers with decades of experience in the design, construction, and operation of health care facilities"--

## **Planning, Design, and Construction of Health Care Facilities**

Publisher description

## **Guidelines for Construction and Equipment of Hospitals and Medical Facilities**

## **Sustainable Healthcare Architecture**

“Spending millions of dollars to renovate, reconfigure, expand, or replace a facility can be intimidating without the right direction. Healthcare Facility Planning: Thinking Strategically is a practical guide that will help you move confidently from planning to implementation. This book’s focus is on predesign planning-- a stage in

the healthcare facility planning, design, and construction process. Healthcare executives have the greatest opportunity to express a vision for their organization's future during predesign planning, and decisions made during this stage have the greatest impact on long term operational costs and future flexibility. Careful predesign planning allows an organization to rethink its current patient care delivery model, operational systems and processes, and use of technology to ensure that a facility substantially benefits patients, caregivers, and payers. This new edition addresses current issues—such as new financial incentives, fluctuating utilization and demand, constant pressure for technology adoption and deployment, rising turf wars among specialists, intense focus on patient safety, and aging physical plants--that affect the way facilities are used, planned, financed, and built.”--Back cover.

## **Jonas and Kovner's Health Care Delivery in the United States, 12th Edition**

The WHO Guidelines on Hand Hygiene in Health Care provide health-care workers (HCWs), hospital administrators and health authorities with a thorough review of evidence on hand hygiene in health care and specific recommendations to improve practices and reduce transmission of pathogenic microorganisms to patients and HCWs. The present Guidelines are intended to be implemented in any situation in which health care is delivered either to a patient or to a specific group in a population. Therefore, this concept applies to all settings where health care is permanently or occasionally performed, such as home care by birth attendants. Definitions of health-care settings are proposed in Appendix 1. These Guidelines and the associated WHO Multimodal Hand Hygiene Improvement Strategy and an Implementation Toolkit (<http://www.who.int/gpsc/en/>) are designed to offer health-care facilities in Member States a conceptual framework and practical tools for the application of recommendations in practice at the bedside. While ensuring consistency with the Guidelines recommendations, individual adaptation according to local regulations, settings, needs, and resources is desirable. This extensive review includes in one document sufficient technical information to support training materials and help plan implementation strategies. The document comprises six parts.

## **Guidelines for Construction and Equipment of Hospital and Medical Facilities**

Standards to guide the design and construction of nursing homes, assisted living facilities, independent living settings, and related outbased service facilities, including adult day care

## **Healthcare Design**

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