



## What's New in the Third Edition?

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### About the SpaceMed Guide

The SpaceMed Guide workbook and CD-ROM presents guidelines that reflect today's dynamic healthcare environment. This popular planning tool, written by Cynthia Hayward, FAIA, provides state-of-the-art planning methodologies, industry benchmarks, and planning tips from decades of consulting to healthcare organizations throughout North America. The SpaceMed Guide helps healthcare architects and facility planners to plan the *right services*, at the *right size*, and in the *right location*. The SpaceMed Guide was first published in 2004 followed by the second edition in 2006. The third edition was published in the spring of 2015.

### Summary of Major Additions and Revisions

**Alignment with the FGI Guidelines.** The third edition of the SpaceMed Guide aligns with the 2014 edition of the *Guidelines for Design and Construction of Hospitals and Outpatient Facilities* published by the Facilities Guidelines Institute — referred to as the FGI Guidelines — and uses the same nomenclature, required spaces, and minimum room sizes. The SpaceMed Guide complements the FGI Guidelines by helping healthcare architects, planners, and providers to develop the functional program, required prior to application of the FGI Guidelines, and the room-by-room space requirements necessary to begin the design process. The FGI Guidelines identify the functional program as a critical tool for planning and designing healthcare facilities and mandates that a “functional program shall be developed for new construction, major renovations, and projects that change the functional use of any facility space.” The Joint Commission, many federal agencies, and authorities in 42 states use the FGI Guidelines as either a code or a reference standard when reviewing, approving, and financing projects.

Due to minimal changes to the required spaces, minimum room sizes, and nomenclature in the 2018 edition of the FGI Guidelines, we have issued an Addendum that highlights any inconsistencies in lieu of publishing another edition of the SpaceMed Guide at this time.

**Metric version of the Microsoft® Excel space planning templates.** The sixteen space planning templates and the quick calculation templates are provided in both imperial and metric measurements.

**Updated introductory sections.** Information on current facility planning issues, the facility planning process, and developing a functional program has been updated along with additional text on planning facilities for special patient populations such as infectious/immune suppressed, bariatric, and behavioral health patients.

**Updated current trends, key planning issues, and space planning templates** for all sixteen sections of the SpaceMed Guide. Many of the changes are related to healthcare reform, the convergence of diagnostic and interventional imaging with surgery, and the increased use of automation and robotics.

**Summary of common spaces.** Spaces that are common to many of the clinical services and support functions addressed in the SpaceMed Guide — such as patient care, support, and administrative spaces — are summarized in an appendix for easy reference.

The SpaceMed Guide complements the FGI Guidelines by helping healthcare providers, planners, and architects to develop the functional program, required prior to application of the FGI Guidelines, and the room-by-room space requirements necessary to begin the design process.

A metric version of the space planning templates is provided in response to requests by the many international users of the SpaceMed Guide.

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**Major clinical sections have been substantially rewritten.** A number of the SpaceMed Guide sections have been substantially rewritten or revised to reflect changing medical practices and advances in technology such as:

- **Emergency and urgent care services** reflects new requirements mandated in the FGI Guidelines.
- **Surgery and special procedures** reflects the ongoing migration from invasive to less-invasive to noninvasive procedures as minimally-invasive, image-guided, robotic, and telesurgery continue to replace traditional surgical procedures. The revised section also reflects new definitions of invasive procedures, procedure rooms, and semi-restricted/restricted areas of the surgical suite, consistent with the FGI Guidelines, along with minimum room sizes for general, specialty, and hybrid operating rooms, and the new requirements for immediate-use steam sterilization.
- **Imaging and other diagnostic services** has been updated to include new modalities and technologies and to reflect minimum clearances and space requirements mandated in the FGI Guidelines.
- **Women and infant services** includes additional information on the use of single-family rooms in the neonatal intensive care unit.
- **Oncology services** addresses new radiation therapy treatments and stereotactic radiosurgery.
- **Patient care units** has been updated to reflect minimum clearances and space requirements mandated in the FGI Guidelines and includes new space templates for hospital-based skilled nursing/rehabilitation units and an observation unit.
- **Ambulatory care** has been updated to reflect new patient care delivery models — particularly for primary care — and changes in the planning of ophthalmology and dental suites and medical procedure units.
- **Clinical laboratory** has been rewritten to address advances in automation and rapid changes in technology and instrumentation. Molecular diagnostic testing — one of the fastest growing areas of the laboratory — has been added along with changes in transfusion services, anatomical pathology, and the morgue. Current trends in laboratory consolidation, the focus on safety and security, and the need for flexibility are also described in the revised section.
- **Pharmacy** has been updated to reflect the prevalence of automated medication dispensing units at the point-of-care and the growing automation and use of robotics in both the main hospital pharmacy and in the outpatient pharmacy.
- **Other revisions** address changes in cardiovascular diagnostics, rehabilitation, behavioral health, and building support services.

Many of the changes are related to health-care reform, the convergence of diagnostic and interventional imaging with surgery, and the increased use of automation and robotics.

All sixteen sections of the SpaceMed Guide have been revised and all of the space planning templates reflect the minimum clearances and room sizes cited in the FGI Guidelines.