

## CHAPTER 120: OCCUPANCY RATES

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## 1 PURPOSE AND SCOPE

The Office of the Assistant Secretary of Defense for Health Affairs (ASDHA) has primary responsibility for establishing functional space and equipment planning criteria and standards for all the facilities in the Military Health System (MHS) necessary to fulfill the Secretary of Defense's responsibilities. The purpose of this document is to outline the way the Space and Equipment Planning documents are organized in order to facilitate planning, programming, and budgeting for DoD Medical Facilities for all services. Space Planning Criteria is organized by Chapter, a chapter corresponds to a Department or Departments with similar clinical functions in a healthcare facility. The intent of the Space Planning Criteria chapters and their implemented version in SEPS is to aid the space planner working on a MHS project create a baseline Space Program, Program for Design (PFD) and a Program Room Contents (PRC) using DoD approved standards.

The Space and Equipment Planning documentation is accessible in the Military Health System (MHS): DoD Space Planning Criteria for Health Facilities section of the Construction Criteria Database (CCD): DOD Criteria of the Whole World Building Design (WBDG) website in the following link: <http://www.wbdg.org/ccb/>

## 2 BED SIZING CONFIDENCE CRITERIA

The following hospital inpatient occupancy rates shall be used in planning the number of beds in MTFs. The occupancy rates selected will then be applied to the formula for determining bed needs, located in their respective chapters (Chapter 410: Nursing Units (Med-Surg, Peds, ICU / CCU, Substance Abuse/Alcohol Rehab, Chapter 420: Labor & Delivery / Obstetric Unit and Chapter 460: Behavioral Health Inpatient Unit):\

**Table 1: CHAPTER 410: NURSING UNITS BED OCCUPANCY RATES**

<b>Medical-Surgical Units</b>	
<b>ADPL Beds</b>	<b>ADPL Occupancy Rates</b>
Less than 26	60%
26-50	75%
51-100	80%
101-250	85%
Greater than 250	90%
<b>ICU / CCU Units</b>	
<b>ADPL Beds</b>	<b>ADPL Occupancy Rates</b>
8 or greater	60%
<b>Pediatric Units</b>	
<b>ADPL Beds</b>	<b>ADPL Occupancy Rates</b>
Less than 31	65%
Greater than 31	75%
<b>Substance Abuse / Alcohol Rehabilitation Units</b>	
<b>ADPL Beds</b>	<b>ADPL Occupancy Rates</b>
8 or greater	90%

**Table 2: CHAPTER 420: LABOR AND DELIVERY / OBSTETRIC UNITS BED OCCUPANCY RATES**

<b>Obstetric Units</b>	
<b>ADPL Beds</b>	<b>ADPL Occupancy Rates</b>
Less than 11	60%
Greater than 11	75%

**A. ICU / CCU Units**

Intensive Care and Coronary Care Units (ICU / CCU): The total number of critical care beds will be supported by a specific justification. The justification will address factors such as hospital mission, expected mission change, projected work load, and geographical location. If space is requested for a laboratory to support these special care functions, it will be supported by a similar justification. The following guidelines serve as a baseline for programming these units when Intensive Care and / or Coronary Care Unit capability is justified.

If the ADPL data for the ICU / CCU is not available, the following criteria may be used to estimate the ICU / CCU bed requirements.

1. The recommended baseline for number of critical care beds (i.e., total ICU and CCU beds) is 13 percent of the total programmed bed capacity.
2. The minimum number of ICU / CCU beds per Unit is eight.

**Table 3: RECOMMENDED NUMBER OF ICU / CCU BEDS**

<b>MTF Total Bed Capacity</b>	<b>Number of ICU / CCU Beds</b>
99 or less	8 - 13
100 - 199	13 - 26
200 - 299	26 - 39
300 - 399	39 - 52
400+	Authorization Required

**3 PLANNING EXAMPLES**

Case 1: Bed calculation using ADPL projections (including ICU / CCU)

Based on the following ADPL projections:

- Medical- Surgical = 150
- Pediatrics = 8
- Substance Abuse / Alcohol Rehab = 10
- Behavioral Health Inpatient = 8
- Obstetric (Postpartum/Antepartum) = 15
- ICU / CCU = 16

Calculation:

Medical-Surgical beds	=	150/0.85	=	177
Pediatric beds	=	8/0.65	=	13
Substance Abuse / Alcohol Rehab	=	10/0.90	=	12
Behavioral Health Inpatient beds	=	8/0.90	=	9
Obstetric (Postpartum/Antepartum) beds	=	15/0.75	=	20
ICU / CCU beds	=	16/0.60	=	27
<u>Total</u>				<u>= 258 beds</u>

Case 2: Bed calculation using ADPL projections (excluding ICU / CCU)

Based on the following ADPL projections:

Medical-Surgical= 150  
Pediatrics = 8  
Substance Abuse / Alcohol Rehab = 10  
Behavioral Health = 8  
Obstetric = 15

Calculation:

Medical-Surgical beds	=	150/0.85	=	177
Pediatric beds	=	8/0.65	=	13
Substance Abuse / Alcohol Rehab beds	=	10/0.90	=	12
Behavioral Health Inpatient beds	=	8/0.90	=	9
<u>Obstetric (Postpartum/Antepartum beds)</u>	=	<u>15/0.75</u>	=	<u>20</u>
<u>Total</u>				<u>= 231 beds</u>

ICU / CCU beds calculated as a percentage:

$$\text{ICU / CCU beds} = 231 \times 0.13 = 30.03 = 31$$

$$\text{Total Number of Beds} = 231 + 31 = 262$$