



## **DEFENSE HEALTH BOARD**

### **INTRO TO NAVY AFLOAT MEDICAL CAPABILITY**

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**COMNAVSURFLANT**

**FORCE SURGEON**

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## **Disclosures**

- The views and opinions may not reflect those of Navy Medicine, the U.S Navy, the U.S. Marine Corps or the Department of Defense
- No financial conflicts to report
- Inputs for this presentation were received from multiple sources and then interpreted and collated by me to result in the final slides.

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## Objective


- Briefly discuss the Roles of Care in the operational setting
- Highlight the differences in medical capacity and capability
- Provide an overview of Navy Afloat Platforms Medical Capabilities



## Roles of Care

- Role 1 – Provides medical treatment, Initial trauma care, forward resuscitation (not surgical)
- Role 2 – Provides medical treatment, advanced trauma management, emergency surgery, and resuscitative care
- Role 3 – provides emergency and specialty surgery, intensive care, medical specialty care, and extended holding capacity and capability augmented by robust ancillary support
- Role 4 – Provides the full range of preventative, acute, restorative, curative, rehabilitative, and convalescent care found in the United States base hospitals and robust overseas facilities

*Source: DOD Instruction 6000.11 Patient Movement*



## Capability vs Capacity

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**Capability**


- This is what we can do now
  - Can increase with personnel
  - Can increase with equipment augments

**Capacity**

- Constrained mostly by the spaces on the ship
  - Augment personnel
    - Fleet Surgical Team (FST)
    - Casualty Receiving Treatment Ship M+1 (CRTS M+1)
    - Expeditionary Resuscitative Surgical System (ERSS)
    - En Route Care System (ERCS)
  - Beds to nurses
  - Blood supply, time to access (1.5 for first frozen unit / 45 min for first unit in WBB)
  - Time – may change depending on number/severity of casualties

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## Afloat Platforms

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<p><b>SURFOR</b></p> <p><b>Amphibious Force:</b></p> <ul style="list-style-type: none"> <li>• LHD</li> <li>• LPD</li> <li>• LSD</li> <li>• ESB</li> </ul> <p><b>Surface Combatants:</b></p> <ul style="list-style-type: none"> <li>• CG</li> <li>• DDG</li> <li>• LCS</li> <li>• FFG</li> </ul> <p><b>Command Ships:</b></p> <ul style="list-style-type: none"> <li>• LCC</li> </ul>	<p><b>AIRFOR:</b></p> <ul style="list-style-type: none"> <li>• CVN</li> </ul> <p><b>Military Sealift Command (MSC)</b></p> <ul style="list-style-type: none"> <li>• T-AH</li> <li>• EPF/EMS</li> </ul> <p><b>SUBFOR:</b></p> <ul style="list-style-type: none"> <li>• SUB TENDERS</li> <li>• SSN/SSBN</li> </ul>
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## USS WASP CLASS (LHD)

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**FACILITIES**

Operating Rooms	4 (2 FOR LHA)
Medical Exam	4
Dental Operatories	4
Intensive Care Unit Beds	15
Ward Beds	38 (19 Top and 19 Bottom)
Quiet/Isolation Beds	6 (No negative pressure)
(*1 Room 2-bed, 1 Room 4-bed)	
Overflow Beds	275
(*Overflow consists of units commonly used for Marine berthing.)	
WALKING BLOOD BANK DEPENDENT ON 10% sampling of Ship's company.	

**ANCILLARY SERVICES**

Pharmacy	General Dentistry
Clinical Lab	Preventative Medicine
Bio-Medical Repair	Digital X-ray (Medical)
Blood Bank	Digital X-ray (Dental)
Aviation Examination	
Audiology Booth	
Intensive Care Unit (w/FST)	
General Surgery (w/FST)	
Psychiatry (w/FST)	


**MANNING**

Medical Corps	2
Dental Corps	1
Medical Service Corps	1
Independent Duty Corpsmen	2
Hospital Corpsmen	22

(\*Includes 4 Corpsmen w/ Dental Tech NEC)


**CASUALTY RECEIVING & TREATMENT SHIP CAPABLE**  
 (18 PAX FST + 84 PAX AUGMENT = FULL CAPABILITY)

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## USS SAN ANTONIO CLASS (LPD)

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**FACILITIES**

Operating Rooms	1
Medical Exam	2
Dental Operatories	2
Intensive Care Unit Beds	6
Ward Beds	16 (8 Top and 8 Bottom)
Quiet/Isolation Beds	2 (No negative pressure)
(*1 Room 2-bed, 1 Room 4-bed)	
Overflow Beds	65
(*Overflow consists of units commonly used for Marine berthing.)	
WALKING BLOOD BANK DEPENDENT ON 10% sampling of Ship's company.	

**ANCILLARY SERVICES**

Pharmacy	General Dentistry
Clinical Lab	Preventative Medicine
Bio-Medical Repair	Digital X-ray (Medical)
Blood Bank	Digital X-ray (Dental)
Intensive Care Unit (w/FST)	
General Surgery (w/FST)	
Psychiatry (w/FST)	


**MANNING**

Medical Corps	1
Dental Corps	1
Independent Duty Corpsmen	1
Hospital Corpsmen	11

(\*Includes 2 Corpsmen w/ Dental Tech NEC)


**CASUALTY RECEIVING & TREATMENT SHIP CAPABLE**  
 (18 PAX FST AUGMENT REQUIRED)

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## USS WHIDBEY ISLAND CLASS (LSD)

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**FACILITIES**

Operating Rooms	0
Medical Exam	2
Dental Operatories	2
Intensive Care Unit Beds	0
Ward Beds	6 (3 Top and 3 Bottom)
Quiet/Isolation Beds	0
Overflow Beds	0

**ANCILLARY SERVICES**

Pharmacy	General Dentistry
Clinical Lab	Preventative Medicine
Digital X-ray (Medical)	


**MANNING**

Medical Corps	1
Dental Corps	1
Independent Duty Corpsmen	1
Hospital Corpsmen	9

(\*Includes 2 Corpsmen w/ Dental Tech NEC)

NO  
CASUALTY RECEIVING &  
TREATMENT SHIP  
CAPABILITY

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## EXPEDITIONARY SEA BASE (ESB)

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**MANNING:**


Independent Duty Corpsman	1
Preventative Med Tech	1

**FACILITIES:**

Main medical  
2 beds

**ANCILLARY SERVICES:**

Pharmacy – limited to IDC formulary/AMAL  
Labs – via POC testing



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## USS TICONDEROGA CLASS (CG)

**MANNING:**

Independent Duty Corpsman 1  
Hospital Corpsman 2

**FACILITIES:**

Main Medical treatment room  
Ward with 2 bunk style racks  
Battle Dressing station x 2

**ANCILLARY SERVICES:**

Pharmacy – limited to IDC formulary/AMAL  
Labs – via POC testing



## USS ARLEIGH BURKE CLASS (DDG)

**MANNING:**

Independent Duty Corpsman 1

**FACILITIES:**

Main Medical treatment room  
Ward with 2 bunk style racks  
Battle Dressing station x 2

**ANCILLARY SERVICES:**

Pharmacy – limited to IDC formulary/AMAL  
Labs – via POC testing





## LITTORAL COMBAT SHIP (LCS)

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**MANNING:**  
Independent Duty Corpsman      1

**FACILITIES:**  
Main Medical treatment room  
Ward with 2 bunk style racks  
Battle Dressing station x 1

**ANCILLARY SERVICES:**  
Pharmacy – limited to IDC formulary/AMAL  
Labs – via POC testing



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## COMMAND SHIPS (LCC)

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**USS MOUNT WHITNEY (LCC 20)**


**MANNING:**

Independent Duty Corpsman	1
Hospital Corpsman	2
Medical Services Officer (CIVMAR)	1

**FACILITIES:**


Treatment rooms	2
Battle dressing stations	2*

**ANCILLARY SERVICES:**  
Pharmacy – limited to IDC formulary/AMAL  
Labs – via POC testing  
Dental – exams only  
Audiogram



**USS BLUE RIDGE (LCC 19)**

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## USS NIMITZ/FORD CLASS (CVN)

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**FACILITIES:**

*NIMITZ CLASS:*

Operating Room	1
Intensive Care Unit Beds	3
Ward Beds	48

*FORD CLASS:*


Operating Room	1
Intensive Care Unit Beds	3
Ward Beds	41

**MANNING:**

Medical Corps	3
Nurse Corps	2
Medical Service Corps	5
Dental Corps	3
Independent duty Corpsmen	2
Hospital Corpsman	42/47

*With the Airwing:*

Flight Surgeon (MC)	2
Flight PA	1
Aviation Med Tech	5-6




**ANCILLARY SERVICES:**

Pharmacy	General Dentistry
Clinical Lab	OMFS
Bio-Medical Repair	Digital X-ray (Medical)
Blood Bank	Digital X-ray (Dental)
Aviation Examination	Radiation Health
Audiology Booth	General Surgery
Preventative Med	Optician
Mental Health	

NOT CONSIDERED A CASUALTY  
RECEIVING & TREATMENT SHIP

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## ROLE 2 Augments

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**FLEET SURGICAL TEAM:**

- 18 Member Team (O=8/E=10)
  - OIC (physician), Medical Regulating Control Officer (MSC), Senior Enlisted HM,
  - General Surgeon, CRNA, Perioperative Nurse, Surgical Tech x 2, RT x 1
  - IM/FM Physician, Critical Care nurse, HM x 2
  - Lab tech x 2, Rad Tech
  - Psychiatrist, Behavioral Health Technician
- Embarks LHD for all ARG/MEU deployments
- 9 Teams (5 SURFPAC/4 SURFLANT)

**CRTS M+1**

- 84 member team
  - Augments the LHD to full Required Operational Capability (ROC) in Condition 1 and 2 operating environment, or as deemed necessary by the COCOM.
  - Adds additional surgical capability (orthopedics), nursing capacity, ancillary services
  - Manned by BSO-18/Navy Medicine personnel (from the MTF)
- 7 Teams (4 NMFP/3 NMFL)

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## SUBMARINE TENDERS (AS Class)

**FACILITIES:**

Operating Rooms: 2 (in lay up)  
 Intensive Care Unit Beds: 0  
 Ward Beds: 12

**ANCILLARY SERVICES:**

Laboratory  
 X-ray  
 Pharmacy  
 Radiation Health  
 Undersea Medicine

**MANNING:**

Medical Corps 2  
 Dental Corps 1  
 Medical Service Corps 1  
 Independent Duty Corpsman 2  
 Hospital Corpsmen 10



Based in Guam:

- USS EMORY S. LAND (AS 39)
- USS Frank Cable (AS 40)



## SUBMARINES (SSN/SSGN/SSBN)



**MANNING:**


Independent Duty Corpsman 1

**FACILITIES:**

SSN – no dedicated medical space  
 SSBN/SSGN – single room medical space

**ANCILLARY SERVICES:**




Pharmacy – limited to IDC formulary  
 Basic labs – via POC testing



## HOSPITAL SHIPS (T-AH) USNS COMFORT and MERCY


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- USNS ship under COMSC (Military Sealift Command)
- **COMMAND STRUCTURE**
  - Hull maintained by CIVMAR crew
  - ADCON of MTF under COMSC
  - 95% of FOS MTF billets under BSO-18
- **MISSION**
  - Primary – Combat Support
  - Secondary- Theater Support Cooperation and HADR
- **Additional info**
  - **ROLE III**
  - Provides flexible, rapid response
  - 1000 bed – 500 actual
  - T/O:
    - 119 (Reduced Operating Status)
    - 1200 (+/-) (Full Operating Status)
    - Typical configuration to 250 bed ~750 AD



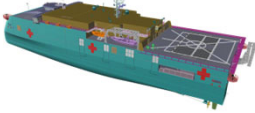
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## Expeditionary Fast Transport (EPF) and Expeditionary Medical Ship (EMS)

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EPF FLIGHT I	EPF FLIGHT II	EPF FLT III (EMS)
		
<ul style="list-style-type: none"> <li>• Shallow draft, all aluminum, commercial-based catamaran providing high-speed intra-theater personnel and cargo lift capability.           <ul style="list-style-type: none"> <li>• Transports 600 ST of troops &amp; cargo 1,200 NM at 35KTS</li> <li>• 20,000 SF cargo area</li> <li>• Berthing for 104 embarked personnel</li> <li>• Surge support for 312 passengers for 96 hrs</li> <li>• Up to H-60 capable flight deck</li> </ul> </li> <li>• EPF 13           <ul style="list-style-type: none"> <li>• Hybrid FLT I and FLT II</li> <li>• Built with various autonomous capability for concept testing, demonstration</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Capable of conducting the same missions conducted by the EPF Flt I, but carries less cargo (331 ST vice 600 ST)</li> <li>• Engineering and design improvements</li> <li>• 11-meter RHIB for personnel transport</li> <li>• CH-53 and MV-22 capable</li> <li>• Berthing for 147 embarked personnel</li> <li>• Capable of <i>embarking</i> an afloat Roll 2 Enhanced (R2E) medical capability (staffed by Expeditionary Medical Unit)           <ul style="list-style-type: none"> <li>• Provides en route medical care (up to 96 hours)</li> <li>• 1 operating room, 2 tables</li> <li>• 10 bed ICU</li> <li>• 23 bed medical ward</li> <li>• Patient / equipment elevator</li> <li>• Portable radiology equipment</li> <li>• Ancillary Services (Medical Laboratory, Pharmacy, Blood Bank)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <i>Dedicated</i> R2E medical platform.           <ul style="list-style-type: none"> <li>• Provides en route medical care (up to 96 hours)</li> <li>• 2 operating rooms, 2 operating tables</li> <li>• 20 bed ICU</li> <li>• 40 bed medical ward</li> <li>• 4 bed quiet room</li> <li>• O2 generation plant and fixed piping</li> <li>• Biomedical waste collection system</li> <li>• Ancillary Services (Medical Laboratory, Pharmacy, Blood Bank)               <ul style="list-style-type: none"> <li>• Fixed radiology</li> </ul> </li> </ul> </li> <li>• 11-meter RHIB for personnel transport.</li> <li>• CH-53 and MV-22 capable.</li> <li>• Berthing for 180 embarked personnel.</li> </ul>

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## QUESTIONS?



## Tours for Tomorrow

- 0800 – 0830 DDG group 1 (Ship TBD)
- 0830 – 0900 DDG group 2 (Ship TBD)
- 0900 – 1000 LPD – USS FORT LAUDERDALE (LPD 28)
- 1000 – 1200 CVN – USS DWIGHT D. EISENHOWER (CVN 69)

*\*Recommend arrival at the ECP of Pier 4 NLT 0745 to walk to the ship's berth\**