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.
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

**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

Afloat Platforms

**SURFOR**
- Amphibious Force:
  - LHD
  - LPD
  - LSD
  - ESB

**Surface Combatants:**
- CG
- DDG
- LCS
- FFG

**Command Ships:**
- LCC

**AIRFOR:**
- CVN

**Military Sealift Command (MSC)**
- T-AH
- EPF/EMS

**SUBFOR:**
- SUB TENDERs
- SSN/SSBN
USS WASP CLASS (LHD)

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)
- Overflow Beds: 275
  (*Overflow consists of units commonly used for Marine berthing.)

ANCILLARY SERVICES
- Pharmacy
- General Dentistry
- Clinical Lab
- Preventative Medicine
- Bio-Medical Repair
- Digital X-ray (Medical)
- Blood Bank
- Digital X-ray (Dental)
- Independent Duty Corpsmen: 1
- 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)

Commander Naval Surface Force Atlantic
Combat Ready, Battle-Minded

USS SAN ANTONIO CLASS (LPD)

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)
- Overflow Beds: 65
  (*Overflow consists of units commonly used for Marine berthing.)

ANCILLARY SERVICES
- Pharmacy
- General Dentistry
- Clinical Lab
- Preventative Medicine
- Bio-Medical Repair
- Digital X-ray (Medical)
- Blood Bank
- Digital X-ray (Dental)
- Independent Duty Corpsmen: 1
- 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)

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)

EXPEDITIONARY SEA BASE (ESB)

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
### 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)

**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

COMMAND SHIPS (LCC)

**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)**
### 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:

**ANCILLARY SERVICES:**

<table>
<thead>
<tr>
<th>Service</th>
<th>USS NIMITZ/FORD CLASS (CVN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Corps</td>
<td>3</td>
</tr>
<tr>
<td>Nurse Corps</td>
<td>2</td>
</tr>
<tr>
<td>Medical Service Corps</td>
<td>5</td>
</tr>
<tr>
<td>Dental Corps</td>
<td>3</td>
</tr>
<tr>
<td>Independent duty Corpsmen</td>
<td>2</td>
</tr>
<tr>
<td>Hospital Corpsman</td>
<td>42/47</td>
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</tbody>
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**With the Airwing:**

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

**With the Airwing:**

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

- NOT CONSIDERED A CASUALTY
- RECEIVING & TREATMENT SHIP

### ROLE 2 Augments

**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)
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

- 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)

- Shallow draft, all aluminum, commercial-based catamaran providing high-speed intra-theater personnel and cargo lift capability.
  - Transports 600 ST of troops & cargo 1,200 NM at 35KTS
  - 20,000 SF cargo area
  - Berthing for 104 embarked personnel
  - Surge support for 312 passengers for 96 hrs
  - Up to H-60 capable flight deck
  - EPF-13
  - Hybrid FLT I and FLT II
  - Built with various autonomous capability for concept testing, demonstration

- Capable of conducting the same missions conducted by the EPF FLT I, but carries less cargo (331 ST vs 600 ST)
- Engineering and design improvements
- 11-meter RHIB for personnel transport
- CH-53 and MV-22 capable
- Berthing for 147 embarked personnel
- Capable of embarking an afloat Roll 2 Enhanced (R2E) medical capability (staffed by Expeditionary Medical Unit)
  - Provides en route medical care (up to 96 hours)
  - 1 operating room, 2 tables
  - 10 bed ICU
  - 23 bed medical ward
  - Patient / equipment elevator
  - Portable radiology equipment
  - Ancillary Services (Medical Laboratory, Pharmacy, Blood Bank)

- Dedicated R2E medical platform.
  - Provides en route medical care (up to 96 hours)
  - 2 operating rooms, 2 operating tables
  - 20 bed ICU
  - 40 bed medical ward
  - 4 bed quiet room
  - O2 generation plant and fixed piping
  - Biomedical waste collection system
  - Ancillary Services (Medical Laboratory, Pharmacy, Blood Bank)
  - Fixed radiology
  - 11-meter RHIB for personnel transport.
  - CH-53 and MV-22 capable.
  - Berthing for 180 embarked personnel.

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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*