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. WALKING BLOOD BANK DEPENDENT ON 10% sampling of Ship’s company.*

**ANCILLARY SERVICES**
- Pharmacy
- Clinical Lab
- Blood Bank
- 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)

**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. WALKING BLOOD BANK DEPENDENT ON 10% sampling of Ship’s company.*

**ANCILLARY SERVICES**
- Pharmacy
- Clinical Lab
- Bio-Medical Repair
- Blood Bank
- Aviation Examination
- Audiology Booth
- 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)

**Commander Naval Surface Force Atlantic** **Combat Ready, Battle-Minded**
### USS WHIDBEY ISLAND CLASS (LSD)

#### FACILITIES

<table>
<thead>
<tr>
<th>Service</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Rooms</td>
<td>0</td>
</tr>
<tr>
<td>Medical Exam</td>
<td>2</td>
</tr>
<tr>
<td>Dental Operatories</td>
<td>2</td>
</tr>
<tr>
<td>Intensive Care Unit Beds</td>
<td>0</td>
</tr>
<tr>
<td>Ward Beds</td>
<td>6 (3 Top and 3 Bottom)</td>
</tr>
<tr>
<td>Quiet/Isolation Beds</td>
<td>0</td>
</tr>
<tr>
<td>Overflow Beds</td>
<td>0</td>
</tr>
</tbody>
</table>

#### ANCILLARY SERVICES

<table>
<thead>
<tr>
<th>Service</th>
<th>Department</th>
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</thead>
<tbody>
<tr>
<td>Pharmacy</td>
<td>General Dentistry</td>
</tr>
<tr>
<td>Clinical Lab</td>
<td>Preventative Medicine</td>
</tr>
<tr>
<td>Digital X-ray (Medical)</td>
<td></td>
</tr>
</tbody>
</table>

#### MANNING

<table>
<thead>
<tr>
<th>Corps</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Corps</td>
<td>1</td>
</tr>
<tr>
<td>Dental Corps</td>
<td>1</td>
</tr>
<tr>
<td>Independent Duty Corpsmen</td>
<td>1</td>
</tr>
<tr>
<td>Hospital Corpsmen</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>(*Includes 2 Corpsmen w/ Dental Tech NEC)</td>
</tr>
</tbody>
</table>

### NO CASUALTY RECEIVING & TREATMENT SHIP CAPABILITY

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### EXPEDITIONARY SEA BASE (ESB)

#### MANNING:

<table>
<thead>
<tr>
<th>Corps</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent Duty Corpsman</td>
<td>1</td>
</tr>
<tr>
<td>Preventative Med Tech</td>
<td>1</td>
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</table>

#### FACILITIES:

<table>
<thead>
<tr>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main medical</td>
</tr>
<tr>
<td>2 beds</td>
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#### ANCILLARY SERVICES:

<table>
<thead>
<tr>
<th>Service</th>
<th>Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacy</td>
<td>limited to IDC formulary/AMAL</td>
</tr>
<tr>
<td>Labs</td>
<td>via POC testing</td>
</tr>
</tbody>
</table>
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)
USS NIMITZ/FORD CLASS (CVN)

**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

**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

With the Airwing:

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

**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

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

EPF FLIGHT I
- 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

EPF FLIGHT II
- Capable of conducting the same missions conducted by the EPF FLT I, but carries less cargo (331 ST vice 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
- 11-meter RHIB for personnel transport.
- CH-53 and MV-22 capable.
- Berthing for 180 embarked personnel

EP F LT III (EMS)
- 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
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*