Services Introduction
GW Maritime Medical Access

- Founded in 1989
- Provides 24/7/365 Medical Advice to Vessels, Aircraft, & Remote Locations around the World.
- Board Certified, Practicing, Academic Emergency Medicine Physicians
- Clients include shipping, fishing, and research vessels, business aviation, cruise lines, pleasure craft, government teams & remote locations
- Medical, logistical & operational support
GW MMA Physician Leadership

Dr. Francis O’Connell
Medical Director
- 3 years with GW MMA
- Coast Guard Academy Graduate
- 10+ years of USCG service

Dr. Keith Boniface
Associate Medical Director
- 13 years with GW MMA
- Maritime Health expert
- National leader in emergency ultrasonography

Dr. Neal Sikka
Associate Medical Director
- 12 years with GW MMA
- National leader in telemedicine and m-health
GW MMA Staff

GW MMA Clinical Coordinators
- Emergency & Remote Medicine Trained PA-Cs
- Case Management
- Newsletters & Medical Advisories
- Other Clinical & Administrative functions

GW MMA Program Administrator
- Primary client liaisons for all Services
- Direct and oversee all operations
- Provide ancillary support services
Worldwide Emergency Communication Center

- Communication & Operations hub for all MMA services
- Staffed by EMTs & Paramedics
- Instant access to client information, medical records, & medical formularies
- Custom-built database of global medical facilities & capabilities
- Secure storage & management of medical & operational records
WECC Infrastructure & Technology

Communications
- Phone, e-mail, fax
- Secure telemedicine systems
- Secure video conferencing

Unified Medical Records Database
- Custom-built electronic health record

Comprehensive Operational System
- Custom-built operational database system

Telemedical Systems Compatibility
- System-agnostic Communication Center
- DigiGone & Tempus i2i

Integration with 52 Medical Specialties
UNOLS ANNUAL MEDICAL ADVISORY DATA
UNOLS 2017 Services Overview
(03/17-03/18)

47 Unique Cases

36 in 2016 (06/16-03/2017)

- 2 Diversions
- 1 Evacuation
- 12 UNOLS Vessels
- Average of 4 days per case
  6 days per case in 2016

155 Encounters

152 in 2016

- 3.3 Encounters per Case
- Average of 9.2 Minutes Per Encounter
Cases By Month 2017

Total

- Mar
- Apr
- May
- Jun
- Jul
- Aug
- Sep
- Oct
- Nov
- Dec
- Jan
- Feb
- Mar

2017

The GW Medical Faculty Associates
Cases By Month 2016

The GW Medical Faculty Associates
2017 Cases By Chief Complaint

<table>
<thead>
<tr>
<th>Chief Complaint</th>
<th>Number of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdominal Pain</td>
<td>3</td>
</tr>
<tr>
<td>Back Pain</td>
<td>1</td>
</tr>
<tr>
<td>Cardiac</td>
<td>1</td>
</tr>
<tr>
<td>Dental</td>
<td>1</td>
</tr>
<tr>
<td>Dermatologic</td>
<td>3</td>
</tr>
<tr>
<td>Eye Problem</td>
<td>3</td>
</tr>
<tr>
<td>GI/GU</td>
<td>2</td>
</tr>
<tr>
<td>Infection</td>
<td>6</td>
</tr>
<tr>
<td>Orthopedic</td>
<td>6</td>
</tr>
<tr>
<td>Other</td>
<td>8</td>
</tr>
<tr>
<td>Respiratory &amp; ENT</td>
<td>10</td>
</tr>
<tr>
<td>Trauma</td>
<td>3</td>
</tr>
<tr>
<td>Grand Total</td>
<td>47</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Chief Complaint</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Abdominal Pain</td>
<td>6%</td>
</tr>
<tr>
<td>Back Pain</td>
<td>2%</td>
</tr>
<tr>
<td>Cardiac</td>
<td>2%</td>
</tr>
<tr>
<td>Dental</td>
<td>2%</td>
</tr>
<tr>
<td>Dermatologic</td>
<td>7%</td>
</tr>
<tr>
<td>Eye Problem</td>
<td>6%</td>
</tr>
<tr>
<td>GI/GU</td>
<td>4%</td>
</tr>
<tr>
<td>Infection</td>
<td>13%</td>
</tr>
<tr>
<td>Orthopedic</td>
<td>13%</td>
</tr>
<tr>
<td>Other</td>
<td>17%</td>
</tr>
<tr>
<td>Respiratory &amp; ENT</td>
<td>21%</td>
</tr>
<tr>
<td>Trauma</td>
<td>7%</td>
</tr>
</tbody>
</table>
2016 Cases By Chief Complaint

- **Eye Problem**: 11%
- **Respiratory and ENT**: 28%
- **Dermatological**: 14%
- **Orthopedic**: 14%
- **Cardiac**: 3%
- **GI**: 8%
- **Dental**: 8%
- **Psychiatric**: 3%
- **Other**: 11%
- **Infectious Contact**: 1
- **Atraumatic Pain**: 1
- **Infection-Ear**: 1
- **Back Pain**: 1
- **Psychiatric Problem**: 1
- **Dermatological**: 1
- **Cardiac**: 1

<table>
<thead>
<tr>
<th>Chief Complaint</th>
<th>Number of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory</td>
<td>5</td>
</tr>
<tr>
<td>Infection-skin</td>
<td>4</td>
</tr>
<tr>
<td>Infection-throat</td>
<td>4</td>
</tr>
<tr>
<td>Orthopedic</td>
<td>4</td>
</tr>
<tr>
<td>GI</td>
<td>3</td>
</tr>
<tr>
<td>Infection-tooth</td>
<td>3</td>
</tr>
<tr>
<td>Infection-eye</td>
<td>2</td>
</tr>
<tr>
<td>Infection-other</td>
<td>2</td>
</tr>
<tr>
<td>Eye problem</td>
<td>2</td>
</tr>
<tr>
<td>Infectious contact</td>
<td>1</td>
</tr>
<tr>
<td>Atraumatic pain</td>
<td>1</td>
</tr>
<tr>
<td>Infection-ear</td>
<td>1</td>
</tr>
<tr>
<td>Back Pain</td>
<td>1</td>
</tr>
<tr>
<td>Psychiatric problem</td>
<td>1</td>
</tr>
<tr>
<td>Dermatological</td>
<td>1</td>
</tr>
<tr>
<td>Cardiac</td>
<td>1</td>
</tr>
</tbody>
</table>
Case Severities

Minor- treat and release, requires minimal follow up
  o Upper respiratory infections, minor trauma

Intermediate-moderate acuity or complexity
  o Non-resolving infections, shortness of breath
  o Often results in NFFD

Major- high acuity patient
  o Bone fractures, appendicitis, potential for life threatening emergency

Critical- Immediate life threatening emergency
  o Major hemorrhage, loss of consciousness, major cardiac problems
  o No cases this year met this criteria
2017 Cases By Severity

- Minor: 45%
- Intermediate: 51%
- Major: 4%
2017 Cases By Vessel
2017 Encounters By Vessel

- R/V Sally Ride
- R/V F.G. Walton Smith
- R/V Kilo Moana
- R/V Oceanus
- R/V Endeavor
- R/V Atlantic Explorer
- Thomas G. Thompson
- R/V Sikuliaq
- R/V Neil Armstrong
- R/V Atlantis
- R/V Roger Revelle
- R/V Marcus G. Langseth
UNOLS SUPPLIES

GW Maritime Medical Access
Upcoming New Supply Procurement Systems

- Faster PO Generation & Shipping Timelines
- Direct Access to Global Maritime Supply Network
- Comprehensive Item Labeling
- Optional Online Live Tracking Formulary Management Tool
- Tied Into GW Physician Services
PROGRAMATIC UPDATES
GW Maritime Medical Access - Updates

- Two New Maritime Physicians
- Medical Center Rebranding & Reorganization
- Increased Staff Support
- Refreshed Reporting Procedures
- Improved Newsletter & Medical Advisories
Contact Us

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“MMA has provided very fast responses with follow up questions and treatment that help crew members return to good health as quickly as possible.”
-Fishing Vessel Captain