L'esperienza del paziente critico a bordo delle navi da crociera

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XVIII Convegno Nazionale degli Ufficiali Medici e del Personale Sanitario della Croce Rossa Italiana

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Onboard emergency

Onboard emergency has some features which characterize it in a different way from the one ashore:

1. Limited environment
2. Limited resources
3. Marine Weather Conditions
4. Distance from mainland
In Italy

Ship’s Doctor “abilitato”

Ship’s Doctor “supplente”
Education and Training

Standard CLIA focus on:

ALS, PALS, ADVANCED TRAUMA, AIRWAYS MANAGEMENT, ACUTE CARDIOVASCULAR EVENT, ACUTE CEREBRAL EVENT, CONTAGIOUS ILLNESS.
Single event:

Crew / Guest

Time-Depending disease
(AMI: Acute myocardial infarction, Ictus cerebri, etc.)

Non Time-Depending disease
Onboard emergency

2 doctors, 3 nurses
Guaranteed emergency response

Possible disembarkation of the patient:

1) Speed up the vessel in order to reach the port for disembarkation

2) Divert the route in order to hasten the disembarkation

3) Call the EMS (Helicopter Medical Service)
Multiple event:

Crew / Guest

Risk to life event

Non acute event
Queen Mary II

Tonnage 150,000 tons
Length 345 metres
Height 72 metres
Passenger 2620
Crew 1253
Costa Diadema

Tonnage 132,500 tons
Length 306 metres
Height 69 metres
Passenger 4947
Crew 1253
Silver Shadow

Tonnage 28258 tons
Length 186 metres
Passenger 382
Crew 302
Medical center : reception
Chemist
Hospital area for crew
Hospital area for guests
Ferry Boat
Mass Casualty Incident

(MCI) is an incident or event that generates more casualties than can be managed by immediately available resources using routine procedures.

This procedure provides the medical staff with guidelines in case of the large-scale incidents and develops a systematic process, pre-planned approach to patient care during such an event.
Triage and Treatment Units

These units are composed by:

Medical First Responder
(Forward Medical Officer and Nurse)

Medical Response Team
(other Doctor and Nurses)
Mass Casualties onboard

*Teams* involved in the response to a Mass Casualty Incidents

- MASTER
- COMMAND & CONTROL
- BRIDGE TEAM
- ASSESSMENT TEAM / ON SCENE COMMANDER
- MUSTER CONTROL
- DECK AND ENGINE FIRE/DAMAGE CONTROL TEAM
- BOUNDARY COOLING TEAMS
- MEDICAL CONTROL
- STRETCHER TEAMS
- SECURITY TEAM
Medical Control / Stretcher Teams

Medical Control and Stretcher Teams have to include:
2 first aid bags
2 stretchers
2 wheelchairs
Smoke masks with filters for each group member.

The teams will move away from the hospital only after that the Leader, in the figure of the Chief Ship’s Doctor, has received the request for intervention by Command & Control.
The Doctors in the Medical Control Team and Cadet Officers in the stretcher teams shall be equipped with UHF radios and shall maintain communication with Command & Control.

3 teams for Mass Casualty will be created and act as below detailed:

**Team "A"** consisting of: Deck Cadet Officer -1 Doctor -1 Nurse –at least 5 Stretcher Bearers

**Team "B"** consisting of: Deck Cadet Officer -1 Doctor -1 Nurse –at least 5 Stretcher Bearers

**Team "C"** consisting of: 1 Nurse-4 equipment carriers (medical oxygen tanks/medical materials)
MCI REPORTING STRUCTURE AND MUSTER LOCATION

- MASTER
  - BRIDGE TEAM
  - COMMAND & CONTROL
    - ASSESSMENT TEAM ON SCENE
      - Deck Fire Team
      - Engine Fire Team
      - Boundary Cooling Team 1
      - Boundary Cooling Team 2
    - MUSTER CONTROL
      - SECURITY
      - MEDICAL CONTROL
        - Stretcher Team A
        - Stretcher Team B
        - Stretcher Team C
Medical Control

Responsible for the safety of patients in the shipboard Medical Centre and for the reception and treatment of anyone sustaining injury as a result of the emergency.

In addition Medical Control must liaise with the Command & Control to ensure that all patients under treatment in the ship’s medical facility or in their cabins are relocated as needed, if necessary.
Special Needs Teams

Report completeness, coordinate and prioritize order of evacuation with Muster Control.

Take into account Handicapped Person Lists and information from other teams.

Assist those passengers to reach assigned Muster Stations and ensure they are properly dressed and collect their medication if applicable.
Commander

If the hospital is impracticable, or the Zone where the hospital is located is not accessible, the Medical Control / Stretcher Team Meeting Point shall be in the “Secondary Medical Centre”:

OTHER POSSIBLE ALTERNATIVE LOCATION:
A safe and as possible adequate area to carry out the appropriate medical activities.

• Grand Bar
• Fire locker
Passenger Volunteers

(incorporating legal and liability provisions)

In compliance with the Italian regulations, passengers volunteers having medical competences with the qualification of doctor and nurse, can be engaged - whenever required
Thank you

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