2019

Diving Emergency Management Procedures

University of Maine

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A diving accident victim could be any person who has been breathing compressed gas underwater regardless of depth. Decompression sickness and arterial gas embolism, collectively referred to as decompression illness (DCI) can affect any diver on any dive and may present with a wide variety of signs and symptoms. In any case, it is essential that emergency procedures and medical treatment is initiated as soon as possible.

The general plan for a diving accident victim is to Call 911 and arrange for transport to the nearest hospital or medical facility by ambulance. The receiving physician will provide appropriate care and, if necessary, arrange for transportation to a hyperbaric facility. Even seemingly mild signs and symptoms (i.e. numbness/ tingling) can indicate a serious diving injury. When in doubt, always assume DCI and begin the emergency response procedures, below.

**EMERGENCY RESPONSE PROCEDURES**

<table>
<thead>
<tr>
<th>Rescue/ Recover the Diver</th>
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<tbody>
<tr>
<td>Call for Emergency Assistance/ Transport</td>
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<tr>
<td>(911 or USCG VHF Ch. 16)</td>
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<tr>
<td>State that this is a medical emergency.</td>
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<tr>
<td>State your location and the condition of the diver.</td>
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<tr>
<td>Request transport to the nearest hospital/ medical facility.</td>
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<tr>
<td>If on the water, head in the direction of your nearest port or dock and/or coordinate with USCG.</td>
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<tr>
<th>Provide Basic Life Support</th>
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<tbody>
<tr>
<td>(CPR, First Aid)</td>
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<tr>
<th>Provide 100% Oxygen</th>
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<tbody>
<tr>
<td>(Demand mask; Non-rebreather mask @10-15lpm; Resuscitation mask @10-15lpm)</td>
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<tr>
<th>Conduct a Field Neurological Examination</th>
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<tbody>
<tr>
<td>(Assessment of injured diver’s sensory and motor responses)</td>
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<tr>
<th>Notify UMAINE DSO</th>
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<tbody>
<tr>
<td>If the UMaine DSO is not available, call the Diver’s Alert Network (DAN).</td>
</tr>
<tr>
<td>Ask for additional guidance and assistance with medical care, hyperbaric treatment, or transport.</td>
</tr>
</tbody>
</table>

+++ FIRST RESPONDERS/ EMS/ HOSPITAL ATTENDANTS +++

The individual seeking care has been diving using compressed gas. Although this person may appear healthy and uninjured, it is possible that serious neurological or other injuries are present. In any case, it is essential that medical evaluation and treatment is initiated as soon as possible. It is critically important that this individual be provided High-Flow Oxygen (100% O₂, 15 liters/minute, Non-rebreather mask) until they are evaluated by a physician.

+++ EXAMINING PHYSICIANS +++

Pressure related diving injuries can occur in any person who has been breathing compressed gas underwater regardless of depth. Decompression sickness and arterial gas embolism, collectively referred to as decompression illness (DCI) can affect any diver on any dive and may present with a wide variety of signs and symptoms. Evaluation of this injured diver should include a full physical and neurological examination. Consultation with a physician knowledgeable in diving medicine is encouraged.

Thank you for ensuring the best possible care for our diver!

-UMaine Diving Safety Officer
UMaine Diving Safety Officer (DSO)
Christopher Rigaud
Office: (207) 563-8273
Mobile: (207) 949-2289

Divers Alert Network (DAN)
Emergency Hotline: 1-919-684-9111
Medical Information: 1-919-684-2948
Based at Duke University Medical Center, DAN has diving medical specialists on-call 24 hours/day to answer questions and provide guidance on diving injuries and care. DAN can also help to arrange transport to the nearest hyperbaric facility if necessary.

Maine Hyperbaric Centers

Southern/ Central Maine
Dr. Lane Kaplan
St. Mary's Regional Medical Center
Hyperbaric and Wound Care Center
95 Campus Avenue
Lewiston, ME 04240
Direct Phone: 888-526-5511, or (207) 777-8331
Emergency Dept. Access: (207) 777-8120

Downeast Maine
Dr. Marian Benner/ Dr. Michael Coyne
St. Joseph's Hospital
Problem Wound & Hyperbaric Medicine Center
360 Broadway, Bangor, Maine
Direct Phone: 207-907-1550 or 207-907-1000
Emergency Room: 207-907-3000

UMaine Diving Control Board (DCB)
Emmanuel Boss, School of Marine Sciences
Office: (207) 581-4378
Mobile: (207) 356-9147

Robert Downs, Darling Marine Center
Office: (207) 563-8306
Mobile: (207) 592-0889

Wayne Maines, Safety & Environmental Mgmt.
Office: (207) 581-4055
Mobile: (207) 949-2254

Warren Riess, Darling Marine Center
Office: (207) 563-8177
Home: (207) 677-2534

Robert Steneck, School of Marine Sciences
Office: (207) 563-8317
Home: (207) 549-3062

Richard Wahle, Darling Marine Center
Office: (207) 563-8297
Mobile: (207) 841-7723

Rhian Waller, Darling Marine Center
Office: (207) 563-8310
Mobile: (207) 350-0028

Mark Wells, School of Marine Sciences
Office: (207) 581-4322
Mobile: (209) 404-0044
Home: (207) 866-3047

Darling Marine Center (DMC)

DMC Main Office: (207) 563-3146
Linda Healy, 3-8220
Lisa Ouellette, 3-8202

Timothy Miller, Laboratory Manager
Office: (207) 563-8330
Mobile: (207) 557-3067