

Padi Deep Diver Manual

Details about many of the divers that I evaluated are included with comments on the way their dives got them into trouble and the chamber at City Island, NAHC. I discuss their treatment profiles and the results of their treatment. It presents a larger series of bent divers than any I am aware of. Should you find another comparable series contact me at avoidaccidents@ymail.com. Ideas about bends have changed from the concept that a bubble formed in the nervous system because of a rapid ascent or the joint by cavitation-negative pressure. Rapid ascent or joint motion caused the culprit to appear and pressure would make the bubble go away. Now we are focused on treating tissue damage with oxygen. But, we are still using pressure and oxygen to increase the partial pressure of oxygen in the affected tissue. The treatment of choice is the 5 hour long U.S. Navy Treatment Table 6 which washes out the nitrogen in the tissue and washes in the oxygen. Careful understanding of how my patients got bent and how they responded should make any diver more cautious regarding repetitive diving and a multi-day series of dives. Pressure at the deepest part of the dive washes in the nitrogen over time. Fatty tissue, that includes the central nervous system and peripheral nerves, absorbs more nitrogen than watery tissues such as muscle. Shaping-up to dive includes weight loss,

abstinence during the duration of the series of dives, and improving lung function. Physical conditioning prevents tachycardia, a rapid heart beat, during exertion. A program of regular exercise two or three times a week prevents early fatigue during prolonged exertion, or increases stamina. Exercise such as walking 20 or more minutes a day for several weeks before diving is as important as paying for the trip. Swimming accustoms one to buoyancy, relaxing in the water, and adjusting temperature regulating reflexes such as vaso-constriction in the skin on immersion. Dive accidents sometimes do not have a treatable solution. Most "accidents" resolve after one re-compression breathing oxygen under pressure. Many patients were treated multiple times, and some did not get complete relief of their symptoms and/or neurological findings. Immediate therapy traditionally is in-water re-compression which has its drawbacks. It is difficult to administer and hypothermia, fatigue, and drowning are risks. Surface-On-Deck oxygen breathing from a face-mask or immediate re-compression in a chamber are always effective treatments. Transport to a facility has logistical problems and the destination chamber may not be functional when it is needed. The U.S. Navy Diving Manual Rev.6 Vol. 5 20-4.4.2.1 has procedures for In-Water Re-compression using AIR, 20-4.4.2.2 In-Water Re-compression Using Oxygen. Both sections advise going to 30 fsw and additional instructions for decompressing. If oxygen is used and the decompression

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has been completed then 3 hours of oxygen breathing is the procedure. One cylinder of oxygen and a face mask are good for one diver for 3 hours. Where are the other cylinders for other divers? The book is about the chamber that I personally operated and staffed. I was almost continually available. The number of bent divers that I treated, not all are included in the book because they were routine, speaks for itself. AAA, Avoid An Accident-Plan Safe Dives.

Forthcoming Books

Tec Deep Diver

Open Water Diver Manual

Between the Devil and the Deep

This is the first book to span the depth between traditional sport diving editions and the complex medical/commercial texts. It provides a balanced view of the fascinations and hazards of deep diving through extensive factual development of its technical chapters.

PADI Deep Diver Manual

PADI Rescue Diver Manual

How to Plan a Safe Dive

One Man's Battle to Beat the Bends

'New Frontiers in Marine Tourism' is the first book of this kind to address and

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analyse this burgeoning tourism sector comprehensively. By integrating aspects such as the sustainability, safety, education, experiences and management of diving tourism the text highlights a variety of pressing topics related to the management of diving tourism, including: * different types of diving locations and their particular characteristics and the geographical distribution of dive locations * the growth and economic significance of diving tourism in destinations worldwide * different motivations and typologies of diving tourists, their learning behaviour, knowledge of marine environments, and their interaction with flora and fauna. * diver satisfaction, attitudes and preferences, education and interpretation, and compliance with regulations * environmental impacts, and aspects of risk and health.

Bibliographie Du Sport

Diving Experiences, Sustainability, Management

Deep Diving

'One of the best accounts ever written of deep-water diving and its staggering, haunting dangers' Robert Kurson, New York Times bestselling author of Shadow Divers Deep underwater lurks a mysterious man-made illness. It has gone by many names over the years – Satan's disease, diver's palsy, the chokes – but today, medics call it decompression sickness. You know it as the bends. That's

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the devil British diver Martin Robson faces each time he plunges beneath the surface. In the winter of 2012, Robson was part of an expedition to Blue Lake, southern Russia, which sought to find a submerged cave system never seen by the human eye. On the final day of the expedition, as Robson returned from diving deeper into the lake than anyone had before, disaster struck: just seventy-five feet down, he was ambushed by the bends. Robson knew that if he continued up to the surface he would probably die before help arrived. Instead, he sank back into the water, gambling on an underwater practice most doctors believe is a suicidal act. Soon the only hope he had of saving his life would rest in the hands of a dramatic mercy mission organised at the highest levels of the Russian government. *Between the Devil and the Deep* is the first book to tell the terrifying true story of what it feels like to get the bends, taking you inside the body and mind of a man who suffered the unthinkable. Writer Mark Cowan also explores the grimly fascinating history of decompression sickness, the science behind what causes the disease, and the stories of the forgotten divers who pushed the limits of physical endurance to help find a solution.

Bends Explained

Dive Training

The Journal of Underwater Education

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New Frontiers in Marine Tourism

An expedition to investigate an old sunken ship teaches Peggy lessons about herself. When archaeologists discover a two-hundred-year-old shipwreck, Peggy Henderson decides she'll do whatever it takes to take part in the expedition. But first she needs to convince her mom to let her go, and to pay for scuba diving lessons. To complicate matters even more, Peggy's Great Aunt Beatrix comes to stay, and she's bent on changing Peggy from a twelve-year-old adventure-seeking tomboy to a proper young lady. Help comes in the most unlikely of places when Peggy gets her hands on a copy of the captain's log from the doomed ship, which holds the key to navigating stormy relationships.

Proceedings of Advanced Scientific Diving Workshop

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The Undersea Journal

MYSTIC SCUBA MY ADVENTURES DIVING INTO ENLIGHTENMENT