

# Diving and Hyperbaric Medicine

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**KEY WORDS FOR DIVING AND HYPERBARIC MEDICINE**

Abalone  
 Abstracts  
 Accidents  
 Adolescents  
 Aerobic capacity  
 Age  
 Air  
 Air embolism  
 Allergy  
 Altitude  
 Anaesthesia  
 Antarctica  
 Arterial gas embolism  
 Ascent  
 Asthma  
 Autobiography  
 Autopsy  
 Aviation  
 Barotrauma  
 Bell diving  
 Beta blockade  
 Biology  
 Blood pressure  
 Blood substitutes  
 Blood sugar level  
 Book reviews  
 Brain injury  
 Breath-hold diving  
 Bronchial provocation testing  
 Bubbles  
 Buccal pumping  
 Buddies  
 Buoyancy  
 Calciphylaxis  
 Capnography  
 Carbon dioxide  
 Carbon monoxide  
 Cardiovascular  
 Case reports  
 Cave diving  
 Cerebral arterial gas embolism (CAGE)  
 Cerebral blood flow  
 Chest injury  
 Children  
 Chronic wounds  
 Clinical toxicology  
 Closing volume  
 Coagulation  
 Cochrane library  
 Cold  
 Communication  
 Compressors  
 Computers  
 Computers – diving  
 Constitutional amendments  
 Copyright  
 Coroner's findings  
 Corrections  
 Critical appraisal  
 DAN – Divers Alert Network  
 Data  
 Deaths  
 Decompression  
 Decompression illness  
 Decompression sickness  
 Deep diving  
 DES – Diver Emergency Service  
 Diabetes  
 DIMS  
 Disabilities  
 Disability  
 Disabled diver  
 Diver numbers  
 Diving  
 Diving accidents  
 Diving at work  
 Diving deaths  
 Diving industry  
 Diving organisations  
 Diving research  
 Diving safety memos  
 Diving scholars  
 Diving tables  
 Diving theory (see Physiology)  
 Doppler  
 Drowning  
 Drugs  
 Dysbaric osteonecrosis  
 Ear barotrauma  
 Ear infection  
 Echocardiography  
 Ecology  
 Economics  
 Editorials  
 Emergency ascent  
 Endothelium  
 Enriched air – nitrox  
 ENT  
 Envenomation  
 Environment  
 Environmental symptoms questionnaire  
 Eosinophilia  
 Epidemiology  
 Epilepsy  
 Equipment  
 Ethics  
 Evidence  
 Exercise  
 Exogenous poison  
 Expert witness  
 Extraglottic airway devices  
 Eyes  
 Fire or explosion  
 First aid

- Fitness to dive  
Flowchart  
Flying (and diving)  
Freediving  
Gas gangrene  
Gas-induced osmosis  
General interest  
Gleanings (from medical journals)  
Haematology  
Health  
Health status  
Health surveillance  
Health surveys  
Hearing  
Helium pharmacokinetics  
Hip arthroplasty  
History  
Human skin equivalent  
Hyperbaric facilities  
Hyperbaric oxygen  
Hyperbaric oxygen therapy  
Hyperbaric oxygenation  
Hyperbaric research  
Hypercapnia  
Hyperthermia (see Thermal problems)  
Hyperventilation  
Hypothermia (see Thermal problems)  
Hypoxia  
Ice  
Immersion  
Immunosuppression  
Incidents  
Infectious diseases  
Injuries  
Inner ear  
Inner ear barotrauma  
Inner ear decompression illness  
Inner ear decompression sickness  
Instruction – diving  
Insurance (see Legal and insurance)  
Investigations  
Irradiation  
Jellyfish  
Labyrinth  
Land animals  
Legal and insurance  
Letters (to the Editor)  
Lidocaine  
Lignocaine  
Logistics  
Low air  
Lung compliance  
Malaria  
Malignancy  
Marine animals  
Medical conditions and problems  
Medical database  
Medical kits  
Medicals – diving  
Medical society  
Medications  
Meetings  
Membership lists  
Menstrual cycle  
Microparticles  
Military diving  
Mixed gas  
Models  
MOPS (maintenance of professional standards)  
Morbidity  
Motion sickness  
Multi-level diving  
Multiple sclerosis  
Musculo-skeletal  
Nasal decongestants  
Near drowning  
Necrotising infections  
Neuroprotection  
Nitric oxide  
Nitrogen  
Nitrogen narcosis  
Nitrogen pharmacokinetics  
Nitrox (see Enriched air – nitrox)  
Non-steroidal anti-inflammatories  
Notice  
Numbers  
Nursing  
Obesity  
Obituary  
Occupational diving  
Occupational health  
Operations – diving  
Optometry  
Osteoarthritis  
Osteoradionecrosis  
Outcome  
Oxygen  
Oxygen consumption  
PADI  
Pain  
Panic  
Patent foramen ovale (PFO)  
Patient monitoring  
Pearl divers  
Performance  
Personality  
Pharmacology – marine  
Physiology  
Platelets  
Policy  
Postural control  
Pregnancy  
Profile  
Prolonged QT syndrome  
Prosopagnosia or visual agnosia  
Psychology

- Pulmonary barotrauma  
 Pulmonary function  
 Pulmonary oedema  
 Pulmonary oxygen toxicity  
 Qualifications  
 Questionnaire  
 Rebreathers/closed circuit  
 Rebreathers/semi-closed circuit  
 Rebreathing  
 Recall  
 Recompression  
 Records  
 Recreational divers  
 Recreational diving  
 Regression analysis  
 Repetitive diving  
 Reprinted from  
 Rescue  
 Research  
 Resort diving (see Tourism)  
 Respiratory  
 Resuscitation  
 Reverse dive profiles  
 Review article  
 Right-to-left shunt  
 Risk  
 Risk assessment  
 Risk factors  
 Risk management  
 Safety  
 Salt water aspiration  
 Salvage  
 Saturation diving  
 Scientific diving  
 Scuba  
 Scuba accidents  
 Scuba diving  
 Scubadoo  
 Severity  
 Shivering  
 Simulation  
 Smoking  
 Snorkelling  
 Soft tissue radionecrosis  
 Solo diving  
 Spearfishing  
 Standards  
 Stress (see Trauma and stress)  
 Submarine  
 Surface decompression  
 Surface supply breathing apparatus (SSBA)  
 Surfactant  
 Surveillance  
 Survey  
 Technical diving  
 Teeth  
 Textbook  
 Theory-based advice  
 Thermal problems (hypothermia and hyperthermia)  
 Tourism  
 Toxicity  
 Toxins  
 Training  
 Transcutaneous oximetry  
 Transport  
 Transpulmonary pressure  
 Trauma and stress  
 Travel medicine  
 Traveller's diarrhoea  
 Treatment  
 Treatment sequelae  
 Trimix  
 Tunnelling  
 Unconscious  
 Underwater diving  
 Underwater hazards  
 Underwater medicine  
 Unit pulmonary toxic dose  
 Vaccination  
 Vasoconstriction  
 Ventilators  
 Vertigo  
 Video and DVD reviews  
 Vision  
 Vital capacity  
 Women  
 Working in compressed air  
 World Wide Web  
 Wounds  
 Wreck diving  
 Writing – medical
- 
- EDITORIALS**
- The Editor's offering  
     Davis M  
     Editorial  
     2008;38(1):1.  
     2008;38(2):61.  
     2008;38(3):121.  
     2008;38(4):181.  
 The Presidents' pages  
     2008;38(1):2.  
     2008;38(3):122-3.
- ORIGINAL ARTICLES**
- Blinding the blinded – assessing the effectiveness of a sham treatment in a multiplace hyperbaric chamber trial  
     Rainolds D, Long R  
     Hyperbaric research, hyperbaric oxygen, profile, hyperbaric facilities  
     2008;38(1):3-7.  
 Provisional report on diving-related fatalities in Australian waters 2002  
     Walker D

- Diving deaths, scuba, breath-hold diving, surface-supply breathing apparatus (SSBA), diving accidents, case reports  
2008;38(1):8-28.
- The effect of two consecutive dives on bubble formation and endothelial function in rats  
Havnes MB, Møllerløyken A, Brubakk AO  
Decompression sickness, endothelium, bubbles, hyperbaric research  
2008;38(1):29-32.
- The consequences of misinterpreting dive computers: three case studies  
Sayer MDJ, Wilson CM, Laden G, Lonsdale P  
Case studies, dive computers, models, decompression sickness, recreational diving, diving research  
2008;38(1):33-9.
- Comparative incidences of decompression illness in repetitive, staged, mixed-gas decompression diving: is 'dive fitness' an influencing factor? Decompression diving, mixed gas, wreck diving, DCI rate, dive fitness, acclimatization  
Sayer MDJ, Akroyd J, Williams GD  
Decompression diving, mixed gas, wreck diving, DCI rate, dive fitness, acclimatization  
2008;38(2):62-7.
- Changes in lung function in Republic of Singapore Navy divers  
Chong SJ, Tan TW, Lim JYJ  
Occupational diving, pulmonary function, smoking, health surveillance, medical database  
2008;38(2):68-70.
- Review of scuba diving fatalities and decompression illness in Australia  
Lippmann J  
Diving deaths, scuba diving, diving accidents, decompression illness, decompression sickness, data, epidemiology  
2008;38(2):71-8.
- Extraglottic airway devices for use in diving medicine – part 3: the i-gel™  
Acott CJ  
Extraglottic airway devices, airway control, diving bell, deck decompression chamber  
2008; 38(3):124-7.
- An underwater blood pressure measuring device  
Sieber A, Kuch B, L'Abbate A, Wagner M, Dario P, Bedini R  
Blood pressure, equipment, immersion, diving, cardiovascular, physiology  
2008;38(3):128-34.
- Personality as a predisposing factor for DCI: a pilot study  
Harding S, Gee P  
Decompression illness, accidents, personality, psychology  
2008;38(3):134-8.
- Hyperbaric oxygen therapy in the treatment of skin ulcers due to calcific uraemic arteriopathy: experience from an Australian hyperbaric unit  
Edsell M, Bailey M, Joe K, Millar I  
Calciphylaxis, hyperbaric oxygen therapy, chronic wounds, outcome  
2008;38(3):39-44.
- Scuba injury death rate among insured DAN members.  
Denoble PJ, Pollock NW, Vaithyanathan P, Caruso JL, Dovenbarger JA, Vann RD  
Accidents, age, cardiovascular, deaths, diving accidents, DAN – Divers Alert Network, epidemiology  
2008;38(4):182-8.
- Heat shock increases survival in rats exposed to hyperbaric pressure  
Medby C, Bye A, Wisløff U, Brubakk AO  
Decompression, bubbles, trauma & stress, Doppler, hyperbaric research  
2008;38(4):189-93.
- Differential effect of high pressure on NMDA receptor currents in *Xenopus laevis* oocytes.  
Mor A, Levy S, Hollmann M, Grossman Y  
High pressure neurological syndrome (HPNS), neurophysiology, hyperbaric research  
2008;38(4):194-6.

#### REVIEW ARTICLES

- Breath-hold diving: performance and safety  
Pollock NW  
Breath-hold diving, freediving, deep diving, physiology, ascent, hypoxia, safety, review article  
2008;38(2):79-86.
- Oxygen toxicity in recreational and technical diving  
Fock A, Millar I  
Oxygen, toxicity, technical diving, mixed gas, review article  
2008;38(2):86-90.
- Compressed breathing air – the potential for evil from within  
Millar IL, Mouldley PG  
Air, compressors, carbon monoxide, toxins, exogenous poison, clinical toxicology, standards  
2008;38(3):145-51.
- Genotoxicity of hyperbaric oxygen and its prevention: what hyperbaric physicians should know  
Gröger M, Radermacher P, Speit G, Muth C-M  
Toxicity, hyperbaric oxygen, oxygen, stress, diving, review article  
2008;38(4):200-5.

#### CASE REPORTS

- Two unusual presentations of probable decompression sickness after deep mixed-gas recreational diving  
Fock A, Millar I  
Case reports, decompression sickness, decompression illness, technical diving, risk factors  
2008;38(1):40-2.
- Diving-related pulmonary oedema as an unusual presentation of alcoholic cardiomyopathy

Kenealy H, Whyte K

Immersion, pulmonary oedema, scuba diving, cardiovascular, exogenous poison, case reports  
2008;38(3):152-4.

Influence of scuba diving on asymptomatic isolated pulmonary bullae

Germonpré P, Balestra C, Pieters T

Pulmonary barotrauma, arterial gas embolism, fitness to dive, risk assessment, medical conditions and problems, case reports  
2008;38(4):206-11.

#### SHORT COMMUNICATIONS

Post-training dive inactivity in Western Australia

Buzzacott P, Pikora T, Rosenberg M

Recreational divers, diver numbers, survey, questionnaire  
2008;38(3):197-9.

#### SPUMS ANNUAL SCIENTIFIC MEETING 2008

Longitudinal field study of lung function in scuba divers – a progress report

Wilson A

Scuba diving, diving research, pulmonary function  
2008;38(3):155.

Antimalarial drugs and diving – a brief review

Cosh D

Malaria, medications, travel medicine, tourism, infectious diseases  
2008;38(3):156-7.

Dengue fever and Japanese encephalitis – an update

Walker RM

Travel medicine, tourism, infectious diseases  
2008;38(3):157-8.

Knowledge of underwater medicine in Milne Bay, Papua New Guinea [Abstract]

Samof L

2008;38(3):158.

#### THE DIVING DOCTOR'S DIARY

Two case reports of epileptic seizures related to probable cerebral arterial gas embolism

Wilson CM, Sayer MDJ

Case reports, cerebral arterial gas embolism (CAGE), decompression illness, recreational diving  
2008;38(1):43-6.

Cerebral arterial gas embolism in a diver using closed-circuit rebreather diving apparatus

Chong SJ, Tan TW

Case reports, cerebral arterial gas embolism (CAGE), closed-circuit underwater breathing system, recompression therapy  
2008;38(1):46-7.

Haemophilia and diving

2008;38(4):219.

#### THE WORLD AS IT IS

Basic life support in a diving bell and deck decompression chamber

Acott CJ

Basic life support, diving bell, decompression chamber  
2008;38(3):159-62.

New thoughts on the correction of presbyopia for divers

Bennett QM

Eyes, vision, optometry, diving, equipment  
2008;38(3):163-4.

British Sub-Aqua Club (BSAC) Diving Incidents report 2007

Compiled by Brian Cumming, diving safety and incidents advisor

<<http://www.bsac.org/page/1062/incident-report-2007.html>>

Recreational diving, accidents, diving deaths, abstracts

2008;38(3):165-6.

Diving Accident Guidelines of the German Society for Diving and Hyperbaric Medicine: Summary version

Müller PHJ (Chairperson), Beuster W, Hühn W, Knessl P, Roggenbach HJ, Warninghoff V, Welslau W, Wendling J

Diving accidents, decompression illness, decompression sickness, cerebral arterial gas embolism (CAGE), first aid, hyperbaric oxygen therapy, transport, medical society

2008;38(4):212-7.

#### COCHRANE CORNER

Recompression and adjunctive therapy for decompression illness: a systematic review of randomised controlled trials.

Bennett M, Mitchell SJ, Lehm JP, Wasiak J

Decompression illness, decompression sickness, recompression, non-steroidal anti-inflammatories, helium, Cochrane library

2008;38(2):91-8.

#### CRITICAL APPRAISAL

Exogenous nitric oxide and bubble formation in divers. *Med Sci Sports Exerc.* 2006; 8(8):1432-5.

(Dujic Z, Palada I, Valic Z, Duplancic D, Obad A, Wisløff U, Brubakk A)

Gho IH, Bennett M

Bubbles, Doppler, diving, decompression, nitric oxide, critical appraisal

2008;38(4):218.

#### LETTERS TO THE EDITOR

NHMRC guidelines for clinical practice for ASD and PTSD

Ladd G

Letters (to the editor), psychology, trauma and stress  
2008;38(1):54.

“Paradoxical embolism” – a misnomer?

Acott C

Letters (to the Editor), patent foramen ovale (PFO),  
medicals – diving  
2008;38(1):54-5.

Diving deaths – use words wisely

Capps R

Letters (to the Editor), diving deaths, writing –  
medical  
2008;38(1):55.

Accident rates at a busy diving centre

Davis M, Malcolm K

Letters (to the Editor), accidents, recreational diving,  
decompression illness, decompression sickness, data  
2008;38(2):104.

Monarchy and the Republic

Knight JK

Letters (to the Editor), corrections  
2008;38(2):104.

Decompression dives

Molvær OI

Decompression, letters (to the Editor)  
2008;38(3):168.

**BOOK AND JOURNAL REVIEWS**

Wound care practice, 2nd edition (Volumes 1 and 2)

(Paul J Sheffield and Caroline E Fife, editors)

Denny Y, Mossop M, Mitchell M, Davis M

Book reviews, wounds, chronic wounds, textbook  
2008;38(1):56.

Annual Diving Report, 2006 Edition:

DAN report on decompression illness, diving fatalities  
and Project Dive Exploration: 2006 edition (based on  
2004 data)

McGeoch G

Book reviews, diving accidents, diving deaths,  
decompression illness  
2008;38(2):101-2.

Treading water: Robert Hewitt's survival story

(Hewitt R with Smale A)

Davis M

Book reviews, diving accidents, immersion, general  
interest  
2008;38(2):103.

Clinical application of hyperbaric oxygen

(Boerema I, Brummelkamp WH, Meijne NG, editors)

Germonpré P

Book reviews, history, meetings, hyperbaric oxygen  
2008;38(3):169.

To the very depths: a memoir of Professor Peter B Bennett

(Bennett PB)

Davis M

Book reviews, autobiography, DAN – Divers Alert  
Network, general interest  
2008;38(3):170

Hyperbaric oxygen for neurological disorders

(Zhang J, editor)

Germonpré P

Hyperbaric oxygen, neurophysiology, brain injury,  
multiple sclerosis, medical conditions and problems,  
textbook, book reviews  
2008;38(4):220.

The ECHM collection, vol. 3

(Marroni A, Mathieu D, Wattel F, editors)

Hawkins G

Hyperbaric oxygen therapy, hyperbaric facilities, safety,  
wounds, book reviews  
2008;38(4):221.

**ARTICLES OF INTEREST REPRINTED FROM  
OTHER SOURCES**

Rate of delivery of hyperbaric oxygen treatments does not  
affect response in soft tissue radionecrosis [Abstract]

Hampson NB, Corman JM

*Undersea Hyperb Med.* 2007;34:329-34.

Reprinted from, hyperbaric oxygen therapy, treatment,  
soft tissue radionecrosis  
2008;38(1):39.

Acute decompression illness and serum s100 $\beta$  levels: a  
prospective observational pilot study [Abstract]

Poff DJ, Wong R, Bulsara M

*Undersea Hyperb Med.* 2007;34:359-67.

Reprinted from, decompression illness, decompression  
sickness, investigations  
2008;38(1):57.

Influence of bottom time on preflight surface intervals before  
flying after diving [Abstract]

Vann RD, Pollock NW, Freiburger JJ, Natoli MJ,  
Denoble PI, Pieper CF

*Undersea Hyperb Med.* 2007;34:211-8.

Reprinted from, flying (after diving), diving research,  
hyperbaric facilities, DAN – Divers Alert Network  
2008;38(1):57.

Research Report 550 Time to treatment for decompression  
sickness [Executive summary]

Prepared by North Sea Medical Centre for the Health  
& Safety Executive 2007

Stipp W

Decompression illness, decompression sickness,  
diving at work, accidents, hyperbaric oxygen therapy,  
outcome  
2008;38(2):98-99.

Cost-effectiveness and budget impact of adjunctive  
hyperbaric oxygen therapy for diabetic foot ulcers  
[Abstract]

Chuck AW, Hailey D, Jacobs P, Perry DC

*Int J Technol Assess Health Care.* 2008;24:178-83.

Hyperbaric oxygen, hyperbaric facilities, wounds,  
diabetes, economics  
2008;38(2):100.

Joint Committee on Quantitative Assessment of Research  
Citation Statistics

Reprinted from, research, writing – medical, general  
interest

2008;38(3):167.

Hyperbaric oxygenation in the management of cerebral arterial gas embolism during cavopulmonary connection surgery  
Newcomb A, Frawley G, Fock A, Bennett M, d'Udekem Y  
*J Cardiothorac Vasc Anesth.* 2008;22:576-80.  
Summarised by Fock A.  
Cerebral arterial gas embolism (CAGE), children, cardiovascular, case reports, gleanings (from medical journals)  
2008;38(4):219.

#### **SPUMS NOTICES and NEWS**

SPUMS website news  
2008;38(1):49.  
SPUMS Annual General Meeting 2008  
2008;38(1):50.  
SPUMS Annual Scientific Meeting 2008  
2008;38(1):51.  
Minutes of the SPUMS Executive Committee Meeting held at Holiday Inn, Melbourne Airport on 04 November 2007  
2008;38(2):105.  
South Pacific Underwater Medicine Society Diploma of Diving and Hyperbaric Medicine. Requirements for candidates (updated October 2008)  
Qualifications, underwater medicine, hyperbaric oxygen, research, medical society  
2008;38(4):222.  
Education Officer's report  
2008;38(4):223-4.  
Minutes of the Annual General Meeting of SPUMS held at Liamu Resort, Kimbe, PNG on Wednesday 28 May 2008  
2008;38(4):223-7.  
Annual General Meeting of the Australian and New Zealand Hyperbaric Medicine Group, Saturday, 16<sup>th</sup> August, 2008, Sea World Resort, Gold Coast, Queensland  
2008;38(4):227-9.  
ANZCA Certificate in Diving and Hyperbaric Medicine  
2008;38(4):230.  
SPUMS 37th ASM 2009  
2008;38(4):231.

#### **EUBS NOTICES and NEWS**

34th Scientific Meeting of EUBS  
2008;38(1):52.  
Minutes of the EUBS General Assembly held on 14 September 2007, Sharm el Sheikh, Egypt  
2008;38(1):53.  
EUBS Executive Committee  
2008;38(2):110.  
2008;38(3):175.  
Nominations for election as EUBS Executive Committee Member-at-Large 2008  
2008;38(2):111-2.  
Proposed modifications of Constitution and Bylaws  
2008;38(2):112-3.

Important financial information for EUBS members  
2008;38(2):113.  
35th Scientific Meeting of EUBS  
2008;38(3):174.  
EUBS financial statement 2007  
2008;38(3):176.

#### **THE POETRY DOCTOR**

Lethal lessons  
Parker J  
2008;38(1): 55.  
Diving madness  
Parker J  
2008;38(2):103.  
Thoughts that bubble up  
Parker J  
2008;38(3):168.  
A pearl of wisdom  
Parker J  
2008;38(4):236.

#### **INSTRUCTIONS TO AUTHORS – FULL VERSION**

2008;38(2):117-9.

#### **ERRATUM**

The effect of two consecutive dives on bubble formation and endothelial function in rats  
Havnes MB, Møllerløgken A, Brubakk AO  
2008;38(1):29-32.  
2008;38:120.