

# 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  
 Anaerobic  
 Anaesthesia  
 Antarctica  
 Antioxidants  
 Arterial gas embolism  
 Ascent  
 Asthma  
 Autism  
 Autobiography  
 Autopsy  
 Aviation  
 Bacteriology  
 Barometric pressure  
 Barotrauma  
 Bell diving  
 Beta blockade  
 Bibliography  
 Biochemistry  
 Biology  
 Biomarkers  
 Blood pressure  
 Blood substitutes  
 Blood sugar level  
 Bone healing  
 Bone necrosis  
 Book reviews  
 Brain injury  
 Breath-hold diving  
 Bronchial provocation testing  
 Bubbles  
 Buccal pumping  
 Buddies  
 Buoyancy  
 Caissons  
 Calciphylaxis  
 Cancer  
 Capnography  
 Carbon dioxide  
 Carbon monoxide  
 Cardiovascular  
 Case reports  
 Cave diving  
 Cerebral arterial gas embolism (CAGE)  
 Cerebral blood flow  
 Chest injury  
 Children  
 Chronic wounds  
 Circulation  
 Clinical audit  
 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  
 Decompression tables  
 Deep diving  
 Dental  
 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 reflex  
 Diving research  
 Diving safety memos  
 Diving scholars  
 Diving tables  
 Diving theory (see Physiology)  
 Doppler  
 Drowning  
 Drugs  
 Drysuit  
 Dysbaric osteonecrosis  
 Ear barotrauma  
 Ear infection  
 Echocardiography  
 Ecology  
 Economics  
 Editorials  
 Education  
 Emergency ascent  
 Endocrinology  
 Endothelium  
 Enriched air – nitrox  
 ENT  
 Envenomation  
 Environment  
 Environmental symptoms questionnaire  
 Enzymes  
 Eosinophilia  
 Epidemiology  
 Epilepsy  
 Equipment  
 Ergonomics  
 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 solubility  
 Gases  
 Gas-induced osmosis  
 Gender  
 General interest  
 Genetics  
 Genitourinary tract  
 Gleanings (from medical journals)  
 Haematology  
 Health  
 Health status  
 Health surveillance  
 Health surveys  
 Hearing  
 Helium  
 Helium pharmacokinetics  
 High pressure nervous syndrome  
 Hip arthroplasty  
 History  
 Human skin equivalent  
 Hyperbaric facilities  
 Hyperbaric medicine  
 Hyperbaric oxygen  
 Hyperbaric oxygen therapy  
 Hyperbaric oxygenation  
 Hyperbaric research  
 Hypercapnia  
 Hyperoxia  
 Hyperthermia (see Thermal problems)  
 Hyperventilation  
 Hypothermia (see Thermal problems)  
 Hypoxia  
 Ice  
 Immersion  
 Immunology  
 Immunosuppression  
 Implantable devices  
 Incidents  
 Indigenous divers  
 Infectious diseases  
 Inflammation  
 Injuries  
 Inner ear  
 Inner ear barotrauma  
 Inner ear decompression illness  
 Inner ear decompression sickness  
 Instruction – diving  
 Insurance (see Legal and insurance)  
 Investigations  
 Irradiation  
 Isotope

- Jellyfish  
 Labyrinth  
 Land animals  
 Legal and insurance  
 Letters (to the Editor)  
 Lidocaine  
 Lignocaine  
 Lipids  
 Logistics  
 Low air  
 Lung compliance  
 Lung function  
 Malaria  
 Malignancy  
 Malignant otitis externa  
 Marine animals  
 Medical conditions and problems  
 Medical database  
 Medical kits  
 Medical society  
 Medicals – diving  
 Medications  
 Meetings  
 Membership lists  
 Menstrual cycle  
 Metabolism  
 Microparticles  
 Mild hyperbaric therapy  
 Military diving  
 Mixed gas  
 Models  
 MOPS (maintenance of professional standards)  
 Morbidity  
 Motion sickness  
 Multi-level diving  
 Multiple sclerosis  
 Musculo-skeletal  
 Narcosis  
 Nasal decongestants  
 Near drowning  
 Necrotising infections  
 Neon  
 Neuroprotection  
 Nitric oxide  
 Nitrogen  
 Nitrogen narcosis  
 Nitrogen pharmacokinetics  
 Noise  
 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  
 Parasite  
 Patent foramen ovale (PFO)  
 Pathology  
 Patient monitoring  
 Pearl divers  
 Performance  
 Perfluorocarbons  
 Permeability  
 Personality  
 Pharmacology  
 Pharmacology – marine  
 Physiology  
 Platelets  
 Policy  
 Postural control  
 Pregnancy  
 Pressure  
 Profile  
 Prolonged QT syndrome  
 Prosopagnosia or visual agnosia  
 Proteins  
 Psychology  
 Pulmonary barotrauma  
 Pulmonary function  
 Pulmonary oedema  
 Pulmonary oxygen toxicity  
 Qualifications  
 Questionnaire  
 Radiological imaging  
 Radiotherapy  
 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  
 Sharpened Romberg test  
 Shivering  
 Side effects  
 Simulation  
 Smoking  
 Snorkelling  
 Soft-tissue radionecrosis  
 Solo diving  
 Spearfishing  
 Standards  
 Statistics  
 Stress (see Trauma and stress)  
 Submarine  
 Surface decompression  
 Surface supply breathing apparatus (SSBA)  
 Surfactant  
 Surveillance  
 Survey  
 Symposium  
 Technical diving  
 Teeth  
 Telemetry  
 Textbook  
 Theory-based advice  
 Thermal problems (hypothermia and hyperthermia)  
 Tourism  
 Toxicity  
 Toxins  
 Training  
 Transcutaneous oximetry  
 Transducer  
 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  
 Visual analogue scale  
 Vital capacity  
 Vitamins  
 Water  
 Women  
 Working in compressed air  
 World Wide Web  
 Wounds  
 Wreck diving  
 Writing – medical  
 Xenon

**EDITORIALS**

## The Editor's offering

- Davis M  
2011;41(1):1.  
2011;41(2):57.  
2011;41(3):117.  
2011;41(4):181.

## The President's pages

- Germonpré P  
Medical society, general interest  
2011;41(1):2.  
2011;41(2):58.  
2011;41(3):122.  
2011;41(4):182  
Bennett M  
Medical society, meetings  
2011;41(3):122-3.

**INVITED EDITORIALS**

## The foundations for today's future

- Elliot D  
Editorials, medical society, training, standards, history,  
general interest  
2011;41(3):118-20.

## The proceedings of the inaugural meeting of the European Undersea Bio-Medical Society 1971

- Barnard EEP  
Medical society, meetings, history, general interest  
2011;41(3):120-1.

**ORIGINAL ARTICLES**

## Respiratory rate can be modulated by long-loop muscular reflexes, a possible factor in involuntary cessation of apnea

- Balestra C, Levenez M, Lafère P, Dachy B, Ezquer M, Germonpré P  
Musculoskeletal, metabolism, breath-hold diving, respiratory, physiology, research  
2011;41(1):3-8.

## The use of drugs by UK recreational divers: illicit drugs

- St Leger Dowse M, Shaw S, Cridge C, Smerdon G  
Recreational divers, drugs, risk factors, health survey, questionnaire, epidemiology  
2011;41(1):9-15.

## The use of drugs by UK recreational divers: prescribed and over-the-counter medications

- St Leger Dowse M, Cridge C, Smerdon G  
Recreational divers, drugs, risk factors, medications, fitness to dive, health survey, epidemiology  
2011;41(1):16-21.

## Mental health measures in predicting outcomes for the selection and training of navy divers

- van Wijk CH

Psychology, military diving, training, performance, questionnaire, research  
2011;41(1):22-6.

## Changes in oxygenation in mechanically ventilated critically ill patients following hyperbaric treatment

- Bingham G, Millar I, Koch S, Paul E, Varma D, Pilcher D  
Hyperbaric oxygen therapy, ventilators, pulmonary function, physiology, right-to-left shunt, clinical audit  
2011;41(2):59-63.

## Transportation of divers with decompression illness on the west coast of Scotland

- Wilson CM, Sayer MDJ  
Decompression illness, decompression sickness, transport, recompression, clinical audit  
2011;41(2):64-9.

## Provisional report on diving-related fatalities in Australian waters 2006

- Lippmann J, Walker D, Lawrence C, Fock A, Wodak T, Jamieson S  
Diving deaths, scuba, breath-hold diving, closed-circuit rebreathers, diving accidents, case reports  
2011;41(2):70-84.

## Risk factors for running low on gas in recreational divers in Western Australia

- Buzzacott P, Rosenberg M, Heyworth J, Pikora T  
Low air, risk factors, recreational diving, scuba diving, epidemiology, research  
2011;41(2):85-9.

## Observation of increased venous gas emboli after wet dives compared to dry dives

- Møllerløgken A, Breskovic T, Palada I, Valic Z, Dujic A, Brubakk AO  
Bubbles, decompression sickness, diving tables, diving research  
2011;41(3):124-8.

## Risk factors and clinical outcome in military divers with neurological decompression sickness: influence of time to recompression

- Blatteau J-E, Gempp E, Constantin P, Louge P  
Military diving, decompression sickness, hyperbaric oxygen therapy, recompression, outcome, treatment, sequelae  
2011;41(3):129-34.

## Retinal artery occlusion: visual outcome after treatment with hyperbaric oxygen

- Cope A, Eggert JV, O'Brien E  
Retinal artery occlusion, hyperbaric oxygen therapy, outcome, case reports  
2011;41(3):135-8.

## The effect of pre-dive exercise timing, intensity and mode on post-decompression venous gas emboli

- Jurd KM, Thacker JC, Seddon FM, Gennser M, Loveman GAM  
Doppler, diving, exercise, bubbles, decompression illness  
2011;41(4):183-8.

Telemedicine in the management of diving accidents: correlation of phone-assessed symptom severity with clinical findings

Wölfel C, Schüpfer G, Konrad C, Knessl P, Wendling J  
Diving accidents, decompression illness, clinical audit, underwater medicine  
2011;41(4):189-94.

Effect of hyperbaric oxygen on bone healing after enucleation of mandibular cysts: a modified case-control study

Tripathi KK, Moorthy A, Ranjan CK, Rao G, Ghosh PC  
Hyperbaric oxygen therapy, dental, radiological imaging, clinical audit, outcome  
2011;41(4):195-201.

Oxygen toxicity seizures: 20 years' experience from a single hyperbaric unit

Banham NDG  
Central nervous system, oxygen, toxicity, seizures, hyperbaric oxygen, hyperbaric oxygen therapy  
2011;41(4):202-10.

The effects of increased pressure, variation in inspired gases and the use of a mask during dry chamber dives on salivary cortisol in professional divers

Tikkinen J, Hirvonen A, Parkkola K, Siimes MA  
Stress, endocrinology, hyperbaric oxygen, equipment, military diving, occupational diving, hyperbaric research  
2011;41(4):211-15.

### SHORT COMMUNICATION

Underwater working times in two groups of traditional apnea divers in Asia: the Ama and the Bajau

Schagatay E, Lodin-Sundström A, Abrahamsson E  
Breath-hold diving, freediving, spearfishing, performance, indigenous divers, diving research  
2011;41(1):27-30.

Preliminary observations on the effect of hypoxic and hyperbaric stress on pulmonary gas exchange in breath-hold divers

Garbella E, Piarulli A, Fornai E, Pingitore A, Prediletto R  
Breath-hold diving, physiology, pulmonary function, pulmonary oedema, carbon monoxide, nitric oxide  
2011;41(2):97-100.

### TECHNICAL REPORTS

Solid-state electrolyte sensors for rebreath applications: a preliminary investigation

Sieber A, Baumann R, Fasoulas S, Krozer A  
Rebreathers/closed circuit, oxygen, carbon dioxide, transducer, capnography, helium, trimix  
2011;41(2):90-6.

Maintenance of negative-pressure wound therapy while undergoing hyperbaric oxygen therapy

Chong SI, Tan MK, Liang W, Kim SJ, Soh CR  
Wounds, hyperbaric oxygen, treatment, equipment, safety

2011;41(3):147-50.

The influence of a hyperbaric environment and increased oxygen partial pressure on the corrosion of dental alloys

Mehl C, Hebllich F, Lenz R, Ludwig K, Kern M  
Diving, hyperbaric oxygen, nitrox, dental, teeth, hyperbaric research  
2011;41(3):151-5.

Suitability of the partially implantable active middle-ear amplifier Vibrant Soundbridge® to hyperbaric exposure

Klingmann C, Klingmann A, Skevas T  
Diving, implantable devices, hearing, equipment, pressure, barotrauma, performance  
2011;41(4):229-32.

### REVIEW ARTICLES

The need for optimisation of post-dive ultrasound monitoring to properly evaluate the evolution of venous gas emboli

Blogg SL, Gennser M  
Diving, decompression, bubbles, Doppler, review article  
2011;41(3):139-46.

Predicting performance in competitive apnea diving. Part III: depth

Schagatay E  
Breath-hold diving, hypoxia, exercise, cardiovascular, respiratory, physiology, safety, review article  
2011;41(4):216-28.

### THE WORLD AS IT IS

British Sub-Aqua Club (BSAC) diving incidents report 2009

Compiled by Brian Cumming, Diving Incidents Advisor  
Wilson CM  
Recreational diving, accidents, diving deaths, abstracts  
2011;41(1):36-7.

British Sub-Aqua Club (BSAC) diving incidents report 2010

Compiled by Brian Cumming, Diving Incidents Advisor  
Wilson CM  
Recreational diving, accidents, diving deaths, abstracts  
2011;41(3):156-7.

### THE DIVING DOCTOR'S DIARY

Cerebral arterial gas embolism with delayed treatment and a fatal outcome in a 14-year-old diver

Lippmann J, Fock A, Arulanandam S  
Case reports, cerebral arterial gas embolism, deaths, children, recreational diving, fitness to dive, medical conditions and problems  
2011;41(1):31-4.

Commentary on the problems of diving in remote areas and underdeveloped countries

Hawkins G  
Diving accidents, legal and insurance, communication,  
DES – Diver Emergency Service, medicals – diving,  
tourism  
2011;41(1):35.

#### ECHM WORKSHOP REPORT

Controversial issues in hyperbaric oxygen therapy: a  
European Committee for Hyperbaric Medicine Workshop  
Kot J, Mathieu D  
Hyperbaric oxygen therapy, bone necrosis, hypoxia,  
brain injury, autism, medical conditions and problems,  
clinical audit  
2011;41(2):101-4.

#### LETTERS TO THE EDITOR

The death of buddy diving?

Cooper PD  
Medicals – diving, buddies, diving deaths, legal,  
manslaughter  
2011;41(1):38.

Women and pressure

Fife C, St Leger Dowse M  
Women, diving, scuba diving, health, physiology,  
pregnancy, risk factors, letters (to the Editor)  
Reply: Watterson J  
2011;41(1):39.

The death of buddy diving?

Walpole B  
Diving deaths, legal and insurance, letters (to the  
Editor)  
2011;41(2):107.

Malignant otitis externa: experience with hyperbaric oxygen  
therapy

Ignatescu M.  
2011;41(3):162.  
Reply: Bennett M, Saxby A, James J  
Hyperbaric oxygen therapy, malignant otitis externa,  
ENT, clinical audit, outcome, letters (to the Editor)  
2011;41(3):162-3.

Advertising guidelines for *Diving and Hyperbaric  
Medicine*

Germonpré P, Bennett M  
Policy, medical society, diving industry, hyperbaric  
medicine, letters (to the Editor)  
2011;41(3):164.

Lithium batteries – intravenous infusion pumps used in  
hyperbaric facilities

Smart D, Van der Broek C  
Equipment, hyperbaric facilities, safety, letters to the (to  
the Editor)  
2011;41(3):165.

The death of buddy diving?

Cooper PD  
Medicals – diving, buddies, diving deaths, legal and

insurance, letters (to the Editor)  
2011;41(4):238.

#### FROM THE RECENT LITERATURE

Decompression illness

Vann RD, Butler FK, Mitchell SJ, Moon RE  
Decompression sickness, decompression illness, arterial  
gas embolism, cerebral arterial gas embolism (CAGE),  
recompression, treatment, review article, reprinted  
from  
2011;41(1):40.

Passive flooding of paranasal sinuses and middle ears as a  
method of equalisation in extreme breath-hold diving

Germonpré P, Balestra C, Musimu P  
Breath-hold diving, ENT, ear barotrauma, abstracts,  
reprinted from  
2011;41(1):40.

Comparison of two modes of delivery of first aid training  
including basic life support

Lippmann J, Livingston P, Craike MJ  
First aid, resuscitation, training, World Wide Web  
2011;41(2):106.  
Interesting articles from the literature  
2011;41(3):161.

#### BOOK AND JOURNAL REVIEWS

Masterminding wounds

(Strauss MB, editor, Miller SS, Aksenov IV, co-  
authors)  
Germonpré P  
Wounds, chronic wounds, textbook, book reviews  
2011;41(1):41-2.

Dangerous marine animals: Mediterranean, Caribbean,  
Indo-Pacific

(Bergbauer M, Myers RF, Kirschner M, editors)  
Meehan C  
Marine animals, injuries, envenomation, toxins, first aid,  
general interest, book reviews  
2011;41(1):42-3.

Diving pioneers and innovators, a series of in depth  
interviews

(Gilliam B, editor)  
Goble S  
Diving, general interest, book reviews  
2011;41(1):43.

Hyperbaric nursing and wound care

(Larson-Lohr V, editor, Norvell H, Josefsen L, Wilcox  
J, co-editors)  
Denny Y  
Nursing, hyperbaric oxygen therapy, wounds, book  
reviews  
2011;41(3):159.

Decompression illness, a simple guide and practical advice  
on the recognition, management and prevention of DCI  
(Lippmann J, editor)



Edward R, Davis S  
Decompression illness, recreation diving, first aid,  
hyperbaric facilities, general interest, book reviews  
2011;41(4):234-5.

Wound care, certification study guide  
(Shah J editor)

Denny Y  
Nursing, wounds, book reviews  
2011;41(4):235.

#### **CONTINUING PROFESSIONAL DEVELOPMENT**

CME activity 2011/1 Diver drug use and mental health  
Fabricus C  
MOPS (maintenance of professional standards), diving,  
drugs, medications, mental health  
2011;41(1):44-5.

CME Activity 2011/2 Acute carbon monoxide poisoning  
Mathieu D  
MOPS (maintenance of professional standards), carbon  
monoxide, toxicity, hyperbaric oxygen therapy  
2011;41(3):160-1.

CME Activity 2011/4 Fluid balance in diving and diving-  
related injury  
Ross JAS  
MOPS (maintenance of professional standards),  
decompression sickness, cerebral arterial gas embolism,  
endothelium, circulation, coagulation, resuscitation  
2011;41(4):236-7.

#### **CRITICAL APPRAISAL**

Hyperbaric oxygen therapy improved both pain scores and  
range of motion in patients with early idiopathic femoral  
head necrosis (Ficat stage II)  
Bennett M  
Hyperbaric oxygen, bone necrosis, outcome, critical  
appraisal  
2011;41(2):105.

Does hyperbaric oxygen administration decrease side effects  
and improve quality of life after pelvic irradiation?  
Smart D  
Hyperbaric oxygen, cancer, radiotherapy, side effects,  
soft-tissue radionecrosis, outcome, critical appraisal  
2011;41(4):233-4.

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

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  
2011;41(1):46.

Minutes of the Annual General Meeting of the Australian and  
New Zealand Hyperbaric Medicine Group, 09 September  
2010, Crowne Plaza Hotel, Darwin  
2011;41(1):49.

ANZCA Certificate in Diving and Hyperbaric Medicine  
2011;41(1):52.

SPUMS website news  
Hawkins G  
World Wide Web, medical society  
2011;41(2):110.

Minutes of the SPUMS Executive Committee Meeting 06  
November 2010 at Prince of Wales Hospital, Sydney  
2011;41(3):169-70.

Minutes of the Annual General Meeting of SPUMS held at  
The Hilton Hotel, Guam, on Thursday 27 May 2011  
2011;41(3):170-5.

Rear Admiral Robyn Walker AM, RAN, MBBS, Dip  
DHM  
2011;41(4):248.

Advertising in Diving and Hyperbaric Medicine  
2011;41(4):249.

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

EUBS Executive Committee (as of September 2010)  
2011;41(1):53.

Minutes of the Executive Committee (ExCom) of EUBS  
Meeting, Gdansk Medical University, Gdansk, 26 August  
2011  
2011;41(4):242-4.

Minutes of the EUBS General Assembly Gdansk, 28 August  
2011  
2011;41(4):244-5.

#### **THE POETRY DOCTOR**

Amazing air  
Parker J  
2011;41(2):107.

Hyperbaric stress  
Parker J  
2011;41(4):250.

#### **OBITUARY**

Professor Christian J Lambertsen  
Obituary, general interest, rebreathers/semi-closed  
circuit  
2011;41(2):108.

William Brook Filer  
2011;41(3):165.

R W 'Billy Bob' Hamilton  
2011;41(4):239.

#### **INSTRUCTIONS TO AUTHORS**

Short version (updated November 2010)  
2011;41(1):56.

Short version (updated December 2011)  
2011;41(4):252.

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