Diving and Hyperbaric Medicine

ISSN 1833-3516

ABN 29 299 823 713

Index for Volume 38, 2008

March 2009
# KEY WORDS FOR DIVING AND HYPERBARIC MEDICINE

<table>
<thead>
<tr>
<th>Abalone</th>
<th>Corrections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstracts</td>
<td>Critical appraisal</td>
</tr>
<tr>
<td>Accidents</td>
<td>DAN – Divers Alert Network</td>
</tr>
<tr>
<td>Adolescents</td>
<td>Data</td>
</tr>
<tr>
<td>Aerobic capacity</td>
<td>Deaths</td>
</tr>
<tr>
<td>Age</td>
<td>Decompression</td>
</tr>
<tr>
<td>Air</td>
<td>Decompression illness</td>
</tr>
<tr>
<td>Air embolism</td>
<td>Decompression sickness</td>
</tr>
<tr>
<td>Allergy</td>
<td>Deep diving</td>
</tr>
<tr>
<td>Altitude</td>
<td>DES – Diver Emergency Service</td>
</tr>
<tr>
<td>Anaesthesia</td>
<td>Diabetes</td>
</tr>
<tr>
<td>Antarctica</td>
<td>DIMS</td>
</tr>
<tr>
<td>Arterial gas embolism</td>
<td>Disabilities</td>
</tr>
<tr>
<td>Ascent</td>
<td>Disability</td>
</tr>
<tr>
<td>Asthma</td>
<td>Disabled diver</td>
</tr>
<tr>
<td>Autobiography</td>
<td>Diver numbers</td>
</tr>
<tr>
<td>Autopsy</td>
<td>Diving</td>
</tr>
<tr>
<td>Aviation</td>
<td>Diving accidents</td>
</tr>
<tr>
<td>Barotrauma</td>
<td>Diving at work</td>
</tr>
<tr>
<td>Bell diving</td>
<td>Diving deaths</td>
</tr>
<tr>
<td>Beta blockade</td>
<td>Diving industry</td>
</tr>
<tr>
<td>Biology</td>
<td>Diving organisations</td>
</tr>
<tr>
<td>Blood pressure</td>
<td>Diving research</td>
</tr>
<tr>
<td>Blood substitutes</td>
<td>Diving safety memos</td>
</tr>
<tr>
<td>Blood sugar level</td>
<td>Diving scholars</td>
</tr>
<tr>
<td>Book reviews</td>
<td>Diving tables</td>
</tr>
<tr>
<td>Brain injury</td>
<td>Diving theory (see Physiology)</td>
</tr>
<tr>
<td>Breath-hold diving</td>
<td>Doppler</td>
</tr>
<tr>
<td>Bronchial provocation testing</td>
<td>Drowning</td>
</tr>
<tr>
<td>Bubbles</td>
<td>Drugs</td>
</tr>
<tr>
<td>Buccal pumping</td>
<td>Dysbaric osteonecrosis</td>
</tr>
<tr>
<td>Buddies</td>
<td>Ear barotrauma</td>
</tr>
<tr>
<td>Buoyancy</td>
<td>Ear infection</td>
</tr>
<tr>
<td>Calciphylaxis</td>
<td>Echocardiography</td>
</tr>
<tr>
<td>Capnography</td>
<td>Ecology</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>Economics</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>Editorials</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>Emergency ascent</td>
</tr>
<tr>
<td>Case reports</td>
<td>Endothelium</td>
</tr>
<tr>
<td>Cave diving</td>
<td>Enriched air – nitrox</td>
</tr>
<tr>
<td>Cerebral arterial gas embolism (CAGE)</td>
<td>ENT</td>
</tr>
<tr>
<td>Cerebral blood flow</td>
<td>Envenomation</td>
</tr>
<tr>
<td>Chest injury</td>
<td>Environment</td>
</tr>
<tr>
<td>Children</td>
<td>Environmental symptoms questionnaire</td>
</tr>
<tr>
<td>Chronic wounds</td>
<td>Eosinophilia</td>
</tr>
<tr>
<td>Clinical toxicology</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>Closing volume</td>
<td>Epilepsy</td>
</tr>
<tr>
<td>Coagulation</td>
<td>Equipment</td>
</tr>
<tr>
<td>Cochrane library</td>
<td>Ethics</td>
</tr>
<tr>
<td>Cold</td>
<td>Evidence</td>
</tr>
<tr>
<td>Communication</td>
<td>Exercise</td>
</tr>
<tr>
<td>Compressors</td>
<td>Exogenous poison</td>
</tr>
<tr>
<td>Computers</td>
<td>Expert witness</td>
</tr>
<tr>
<td>Computers – diving</td>
<td>Extraglottic airway devices</td>
</tr>
<tr>
<td>Constitutional amendments</td>
<td>Eyes</td>
</tr>
<tr>
<td>Copyright</td>
<td>Fire or explosion</td>
</tr>
<tr>
<td>Coroner’s findings</td>
<td>First aid</td>
</tr>
</tbody>
</table>
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(3):121.
The Presidents’ pages

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
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

The effect of two consecutive dives on bubble formation and endothelial function in rats
Havnes MB, Møllerloken A, Brubakk AO
Decompression sickness, endothelium, bubbles, hyperbaric research

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

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

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

Review of scuba diving fatalities and decompression illness in Australia
Lippmann J
Diving deaths, scuba diving, diving accidents, decompression illness, decompression sickness, data, epidemiology

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

An underwater blood pressure measuring device
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

Hyperbaric oxygen therapy in the treatment of skin ulcers due to calcific uraemic arteriolopathy: experience from an Australian hyperbaric unit
Edsell M, Bailey M, Joe K, Millar I
Calciphylaxis, hyperbaric oxygen therapy, chronic wounds, outcome

Scuba injury death rate among insured DAN members.
Denoble PJ, Pollock NW, Vaithianathan P, Caruso JL, Dovenbarger JA, Vann RD
Accidents, age, cardiovascular, deaths, diving accidents, DAN – Divers Alert Network, epidemiology

Heat shock increases survival in rats exposed to hyperbaric pressure
Medby C, Bye A, Wisloff 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

**REVIEW ARTICLES**

Breath-hold diving: performance and safety
Pollock NW
Breath-hold diving, freediving, deep diving, physiology, ascent, hypoxia, safety, review article

Oxygen toxicity in recreational and technical diving
Fock A, Millar I
Oxygen, toxicity, technical diving, mixed gas, review article

Compressed breathing air – the potential for evil from within
Millar IL, Mouldey PG
Air, compressors, carbon monoxide, toxins, exogenous poison, clinical toxicology, standards

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

**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

Diving-related pulmonary oedema as an unusual presentation of alcoholic cardiomyopathy
**Index to Diving and Hyperbaric Medicine for 2008, Volume 38**

**Kenealy H, Whyte K**
**Immersion, pulmonary oedema, scuba diving, cardiovascular, exogenous poison, case reports**

**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

**SHORT COMMUNICATIONS**

**Post-training dive inactivity in Western Australia**
Buzzacott P, Pikora T, Rosenberg M
Recreational divers, diver numbers, survey, questionnaire

**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

**Antimalarial drugs and diving – a brief review**
Cosh D
Malaria, medications, travel medicine, tourism, infectious diseases

**Dengue fever and Japanese encephalitis – an update**
Walker RM
Travel medicine, tourism, infectious diseases

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

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

Haemophilia and diving

**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

**New thoughts on the correction of presbyopia for divers**
Bennett QM
Eyes, vision, optometry, diving, equipment

**British Sub-Aqua Club (BSAC) Diving Incidents report 2007**
Compiled by Brian Cumming, diving safety and incidents advisor
Recreational diving, accidents, diving deaths, abstracts

**Diving Accident Guidelines of the German Society for Diving and Hyperbaric Medicine: Summary version**
Müller PHJ (Chairperson), Beuster W, Hünn 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

**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-inflammatory, helium, Cochrane library

**CRITICAL APPRAISAL**

(Dujic Z, Palada I, Valic Z, Duplancic D, Obad A, Wisloff U, Brubakk A)
Gho IH, Bennett M
Bubbles, Doppler, diving, decompression, nitric oxide, critical appraisal

**LETTERS TO THE EDITOR**

**NHMRC guidelines for clinical practice for ASD and PTSD**
Ladd G
Letters (to the editor), psychology, trauma and stress
“Paradoxical embolism” – a misnomer?  
Acott C  
Letters (to the Editor), patent foramen ovale (PFO), medicinals – diving  

Diving deaths – use words wisely  
Capps R  
Letters (to the Editor), diving deaths, writing – medical  

Accident rates at a busy diving centre  
Davis M, Malcolm K  
Letters (to the Editor), accidents, recreational diving, decompression illness, decompression sickness, data  

Monarchy and the Republic  
Knight JK  
Letters (to the Editor), corrections  

Decompression dives  
Molvær OI  
Decompression, letters (to the Editor)  

BOOK AND JOURNAL REVIEWS

Wound care practice, 2nd edition (Volumes 1 and 2)  
(Denny Y, Mossop M, Mitchell M, Davis M)  
Book reviews, wounds, chronic wounds, textbook  

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  

Treading water: Robert Hewitt’s survival story  
(Hewitt R with Smale A)  
Davis M  
Book reviews, diving accidents, immersion, general interest  

Clinical application of hyperbaric oxygen  
(Boerema I, Brummelkamp WH, Meijne NG, editors)  
Germonpré P  
Book reviews, history, meetings, hyperbaric oxygen  

To the very depths: a memoir of Professor Peter B Bennett  
(Bennett PB)  
Davis M  
Book reviews, autobiography, DAN – Divers Alert Network, general interest  

Hyperbaric oxygen for neurological disorders  
(Zhang J, editor)  
Germonpré P

Hyperbaric oxygen, neurophysiology, brain injury, multiple sclerosis, medical conditions and problems, textbook, book reviews  

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  

Acute decompression illness and serum s100B levels: a prospective observational pilot study [Abstract]  
Poff DJ, Wong R, Bulsara M  
Reprinted from, decompression illness, decompression sickness, investigations  

Influence of bottom time on preflight surface intervals before flying after diving [Abstract]  
Vann RD, Pollock NW, Freiberger JJ, Natoli MJ, Denoble PI, Pieper CF  
Reprinted from, flying (after diving), diving research, hyperbaric facilities, DAN – Divers Alert Network  

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  

Cost-effectiveness and budget impact of adjunctive hyperbaric oxygen therapy for diabetic foot ulcers [Abstract]  
Chuck AW, Hailey D, Jacobs P, Perry DC  
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  
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
Summarised by Fock A.
Cerebral arterial gas embolism (CAGE), children, cardiovascular, case reports, gleanings (from medical journals)

**SPUMS NOTICES and NEWS**

SPUMS website news

SPUMS Annual General Meeting 2008

SPUMS Annual Scientific Meeting 2008

Minutes of the SPUMS Executive Committee Meeting held at Holiday Inn, Melbourne Airport on 04 November 2007

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

Education Officer’s report

Minutes of the Annual General Meeting of SPUMS held at Liamo Resort, Kimbe, PNG on Wednesday 28 May 2008

Annual General Meeting of the Australian and New Zealand Hyperbaric Medicine Group, Saturday, 16th August, 2008, Sea World Resort, Gold Coast, Queensland

ANZCA Certificate in Diving and Hyperbaric Medicine

SPUMS 37th ASM 2009

**EUBS NOTICES and NEWS**

34th Scientific Meeting of EUBS

Minutes of the EUBS General Assembly held on 14 September 2007, Sharm el Sheikh, Egypt

EUBS Executive Committee
2008;38(3):175.

Nominations for election as EUBS Executive Committee
Member-at-Large 2008

Proposed modifications of Constitution and Bylaws

**THE POETRY DOCTOR**

Lethal lessons
Parker J

Diving madness
Parker J

Thoughts that bubble up
Parker J

A pearl of wisdom
Parker J

**INSTRUCTIONS TO AUTHORS – FULL VERSION**

**ERRATUM**

The effect of two consecutive dives on bubble formation and endothelial function in rats
Havnes MB, Møllerløkken A, Brubakk AO
2008;38:120.