

Diving and Hyperbaric Medicine

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- 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
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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.

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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.

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NHMRC guidelines for clinical practice for ASD and PTSD

Ladd G

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“Paradoxical embolism” – a misnomer?

Acott C

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Capps R

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 2008;38(1):55.

Accident rates at a busy diving centre

Davis M, Malcolm K

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Knight JK

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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 β 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,
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 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,
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 2008;38(2):100.

Joint Committee on Quantitative Assessment of Research
Citation StatisticsReprinted 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.

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2008;38(1):49.
SPUMS Annual General Meeting 2008
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SPUMS Annual Scientific Meeting 2008
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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 Liamo 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, 16th August, 2008, Sea World Resort, Gold Coast, Queensland
2008;38(4):227-9.
ANZCA Certificate in Diving and Hyperbaric Medicine
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EUBS NOTICES and NEWS

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Minutes of the EUBS General Assembly held on 14 September 2007, Sharm el Sheikh, Egypt
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2008;38(4):236.

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2008;38(2):117-9.

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The effect of two consecutive dives on bubble formation and endothelial function in rats
Havnes MB, Møllerløgken A, Brubakk AO
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