

Diving and Hyperbaric Medicine

*The Journal of the South Pacific Underwater Medicine Society
and the European Underwater and Baromedical Society*

The logo for the South Pacific Underwater Medicine Society (SPUMS). It features the letters 'SPUMS' in a bold, black, sans-serif font. A white, stylized wave graphic is superimposed over the letters, starting from the 'S' and ending at the 'S'.

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EDITORIALS

The Editor's offering

Davis M

2013;43(1):1.

Editorials, technical diving, deaths, resuscitation

2013;43(2):61.

2013;43(3):129.

[no key words]

2013;43(4):193.

The President's pages

Balestra C

Medical society, meetings, research, general interest

2013;43(1):2.

Balestra C, Bennett M

Medical society, meetings, research, general interest

2013;43(2):62.

Decompression sickness, editorials, general interest

2013;43(3):130.

ORIGINAL ARTICLES

Monitoring cardiac output during hyperbaric oxygen treatment of haemodynamically unstable patients

Hansen MB, Treschow F, Skielboe M, Hyldegaard O, EC Jansen, Nielsen JB

Doppler, cardiovascular, patient monitoring, hyperbaric oxygen therapy, necrotising infections, physiology

2013;43(1):3-8.

Long-term analysis of Irukandji stings in Far North Queensland

Carrette TJ, Seymour JE

Marine animals, jellyfish, envenomation, medical database, pain, treatment, epidemiology

2013;43(1):9-15.

Provisional report on diving-related fatalities in Australian waters 2008

Lippmann J, Lawrence C, Wodak T, Fock A, Jamieson S, Walker D, Harris R

Diving deaths, scuba, breath-hold diving, surface-supply breathing apparatus (SSBA), diving accidents, case reports

2013;43(1):16-34.

Oxidative stress in breath-hold divers after repetitive dives

Theunissen S, Sponsiello N, Rozloznik M, Germonpré P, Guerrero F, Cialoni D, Balestra C

Freediving, breath-hold diving, hyperoxia, free radicals, nitric oxide, exercise

2013;43(2):63-6.

Oxygen exposure and toxicity in recreational technical divers

Fock A, Harris R, Slade M

Technical diving, oxygen, toxicity, pulmonary function, vision, diving research

2013;43(2):67-71.

Rescue of drowning victims and divers: is mechanical ventilation possible underwater? A pilot study

Winkler BE, Muth CM, Kaehler W, Froeba G, Georgieff M, Koch A

Drowning, scuba diving, rescue, resuscitation, extraglottic airway devices, ventilators, equipment

2013;43(2):72-7.

Analysis of recreational closed-circuit rebreather deaths 1998-2010

Fock AW

Technical diving, rebreathers/closed circuit, deaths, safety, diving accidents

2013;43(2):78-85.

Cardiac function and oxygen saturation during maximal breath-holding in air and during whole-body surface immersion

Marabotti C, Piaggi P, Menicucci D, Passera M, Benassi A, Bedini R, L'Abbate A

Breath-hold diving, physiology, diving reflex, cardiovascular, echocardiography, Doppler, hypoxia

2013;43(3):131-7.

Functional comparison between critical flicker fusion frequency and simple cognitive tests in subjects breathing air or oxygen in normobaria

Hemelryck W, Rozloznik M, Germonpré P, Balestra C, Lafère P

Air, oxygen, narcosis, performance, psychology, research

2013;43(3):138-42.

A prospective analysis of independent patient risk factors for middle ear barotrauma in a multiplace hyperbaric chamber

Commons KH, Blake DF, Brown LH

Ear barotrauma, hyperbaric oxygen therapy, risk factors, hyperbaric research, morbidity

2013;43(3):143-7.

Provisional report on diving-related fatalities in Australian waters 2009

Lippmann J, Lawrence C, Fock A, Wodak T, Jamieson S

Diving deaths, scuba, breath-hold diving, surface-supply breathing apparatus (SSBA), diving accidents, case reports

2013;43(4):194-217.

Effects of hyperbaric oxygen on blood glucose levels in patients with diabetes mellitus, stroke or traumatic brain injury and healthy volunteers: a prospective, crossover, controlled trial

Peleg RK, Fishlev G, Bechor Y, Bergan J, Friedman M, Koren S, Tirosh A, Efrati S

Hyperbaric oxygen, blood glucose, prospective controlled trial, blood pressure, heart rate

2013;43(4):218-21.

Hyperbaric oxygen therapy treatment for the recovery of muscle injury induced in rats

Cervaes Costa Maia M, Camacho OF, Pinto Marques AF, Barata de Silva Coelho PM

Hyperbaric oxygen, hyperbaric oxygen therapy, musculo-skeletal, injuries, research

2013;43(4):222-5.

SHORT COMMUNICATION

Comparison of venous glucose to finger-prick glucose in patients with diabetes under hyperbaric hyperoxic conditions: a pilot study

McIlroy D, Banham N

Diabetes, hyperbaric oxygen, blood sugar level, patient monitoring

2013;43(4):226-8.

REVIEW ARTICLES

Recreational technical diving part 1: an introduction to technical diving methods and activities

Mitchell SJ, Doolette DJ

Technical diving, enriched air – nitrox, trimix, cave diving, wreck diving, rebreather, review article
2013;43(2):86-93.

Recreational technical diving part 2: decompression from deep technical dives

Doolette DJ, Mitchell SJ

Technical diving, deep diving, trimix, decompression, decompression tables, models, decompression sickness, inner ear, review article
2013;43(2):96-104.

Effects of diving and oxygen on autonomic nervous system and cerebral blood flow

Winklewski PJ, Kot J, Frydrychowski AF, Nuckowska MK, Tkachenko Y

Scuba diving, cerebral blood flow, oxygen, autonomic nervous system, neurogenic pulmonary oedema, immersion pulmonary oedema
2013;43(3):148-56.

WORK IN PROGRESS

Characterization of early thermal burns and the effects of hyperbaric oxygen treatment: a pilot study

Chong SJ, Kan EM, Song C, Soh CR, Lu J

Burns, hyperbaric oxygen therapy, Doppler, inflammation, bacteriology
2013;43(3):157-61.

CASE REPORTS

Livedoid vasculopathy successfully treated with hyperbaric oxygen

Banham NDG

Wounds, hyperbaric oxygen, hyperbaric oxygen therapy, case reports
2013;43(1):35-36.

Pulmonary oedema in breath-hold diving: an unusual presentation and computed tomography findings

Gempp E, Sbardella F, Cardinale M, Louge P

Breath-hold diving, freediving, pulmonary oedema, radiological imaging, case reports
2013;43(3):162-3.

Efficacy of hyperbaric oxygen therapy in a young woman with idiopathic branch retinal artery occlusion

Demir M, Kara O, Yıldız A, Guven D

Retinal artery occlusion, hyperbaric oxygen therapy, outcome, case reports
2013;43(3):164-5.

Hyperbaric oxygen in the treatment of perichondritis of the pinna

Fernandes FL, Lavor M, de Carvalho GM, Guimarães AC

Ear, infection, wound healing, hyperbaric oxygen therapy, case reports
2013;43(3):166-7.

Acute coronary syndrome and decompression illness: a

challenge for the diving physician

Brauzzi M, Andreozzi F, De Fina L, Tanasi P, Falini S

Decompression illness, decompression sickness, cardiovascular, diving accidents, case reports
2013;43(4):229-31.

THE WORLD AS IT IS

How delay to recompression influences treatment and outcome in recreational divers with mild to moderate neurological decompression sickness in a remote setting
Mutzbauer TS

Decompression sickness, recreational diving, scuba diving, resort diving, hyperbaric oxygen therapy, outcome
2013;43(1):42-45.

Managing scientific diving operations in a remote location: the Canadian high Arctic

Sayer MDJ, Küpper FC, van West P, Wilson CM, Brown H, Azzopardi E

Scientific diving, remote locations, decompression illness, injuries, first aid, oxygen, medical kits
2013;43(4):239-43.

Perceptions amongst Tasmanian recreational scuba divers of the value of a diving medical

Baines C

Fitness to dive, recreational diving, medicals – diving, survey – diving, computers
2013;43(4):244-6.

THE DIVING DOCTOR'S DIARY

Epilepsy, scuba diving and risk assessment. Near misses and the need for ongoing vigilance

Smart D, Lippmann J

Epilepsy, scuba diving, scuba accidents, fitness to dive, recreational divers
2013;43(1):37-41.

Pneumomediastinum or lung damage in breath-hold divers from different mechanisms: a report of three cases

Toklu AS, Erelel M, Arslan A

Breath-hold diving, freediving, pulmonary barotrauma, arterial gas embolism, cerebral arterial gas embolism (CAGE), buccal pumping, case reports
2013;43(4):232-5.

Spontaneous pneumomediastinum in an 11-year-old boy after a shallow breath-hold dive

Laitila M, Eskola V

Breath-hold diving, pulmonary barotrauma, children, radiological imaging, case reports
2013;43(4):235-6.

Cerebral air embolism after pleural streptokinase instillation

Janisch T, Siekmann U, Kopp R

Pulmonary barotrauma, cerebral arterial gas embolism (CAGE), hyperbaric oxygen therapy, case reports
2013;43(4):237-8.

BRITISH SUB-AQUA CLUB (BSAC) DIVING INCIDENTS REPORT 2012

British Sub-Aqua Club (BSAC) diving incidents report 2012

Compiled by Brian Cumming, Diving Incidents Advisor

Brian Cumming, summarised by Colin Wilson
Recreational diving, accidents, diving deaths, abstracts,
case reports
2013;43(4):247-9.

HISTORICAL ARTICLES

Diving – effects of breathing oxygen under pressure
Admiralty Fleet Order AFO 4565/44 (promulgated 24
August 1944)

The Chairman, Admiralty Diving Committee, HMS Dolphin,
c/o GPO London

Hyperbaric oxygen, central nervous system, toxicity,
military diving, historical, reprinted from
2013;43(2):105-8.

Report to the Sub-Committee on Underwater Physiology of
the Royal Naval Personnel Research Committee. Aug 1944.
RNP 44/125; UPS 48.

Barlow HB, MacIntosh FC

Carbon dioxide, toxicity, rebreathers/semi-closed circuit,
military diving, historical, reprinted from
2012;43(2):109-12.

EUBS WORKSHOP

Summary of EUBS Workshop 2011: Validation of dive
computers

Blogg L, Lang M, Møllerløgken A

Medical society, meetings, decompression, computers –
diving, diving at work
2013;43(1):46.

REPRINTED FROM OTHER SOURCES

Skin burns as a result of using commercial hand warmers
in a drysuit using nitrox as a breathing gas. A case report
(Abstract)

Anderson GP

Thermal problems, injuries, deep diving, reprinted from
2013;43(2):113.

A case of deep burns, while diving the *Lusitania*
(Commentary)

Curran JN, McGuigan KG, O'Broin E

Thermal problems, injuries, deep diving, reprinted from
2013;43(2):113.

Guidelines for rescue of an unresponsive diver from depth
(Summary)

Mitchell SJ, on behalf of the Undersea and Hyperbaric
Medical Society Diving Committee

Scuba diving, accidents, unconscious, rescue, resuscitation,
flow chart, medical society, reprinted from
2013;43(3):168-70.

An analysis of the causes of compressed-gas diving fatalities
in Australia from 1972–2005 (Abstract)

Lippmann J, Baddeley A, Vann R, Walker D

Diving deaths, scuba diving, cerebral arterial gas embolism
(CAGE), cardiovascular, epidemiology, reprinted from
2013;43(3):170.

Decompression illness: Clinical aspects of 5,278 consecutive
cases treated in a single hyperbaric unit (Abstract)

Xu W, Liu W, Huang G, Zou Z, Cai Z, Xu W

Decompression sickness, decompression illness, arterial gas
embolism, hyperbaric oxygen therapy, treatment sequelae,
clinical audit, reprinted from

2013;43(3):171.

Practice recommendations in the diagnosis, management,
and prevention of carbon monoxide poisoning (Abstract)

Hampson NB, Piantadosi CA, Thom SR, Weaver LK

Carbon monoxide, clinical toxicology, toxicity, treatment,
hyperbaric oxygen therapy, reprinted from
2013;43(3):172.

Hyperbaric oxygen therapy improves peripheral insulin
sensitivity in humans (Abstract)

Wilkinson D, Chapman IM, Heilbronn LK

Diabetes, hyperbaric oxygen, blood sugar level,
endocrinology, hyperbaric research, reprinted from
2013;43(3):172.

LETTERS TO THE EDITOR

Surgia – inspiring future surgeons and anaesthetists at
Griffith University Medical School

Nightingale J, Cattanach D, Dolan-Evans E

Medical society, education, general interest, letters (to the
Editor)

2013;43(2):116.

Despite animal studies, HBOT is the treatment of choice for
cerebral gas embolism

Bothma PA

Cerebral arterial gas embolism (CAGE), venous gas
embolism, arterial gas embolism, clinical audit, letters (to
the Editor)

2013;43(4):249.

New SPUMS Education Officer needed

Smart D

Medical society, research, letters (to the Editor)

2013;43(4):250.

BOOK AND JOURNAL REVIEWS

Fathomeering: an Amphibian's tale

(Howitt I, author)

Goble S

Recreational diving, history, general interest, book reviews
2013;43(2):115.

CONTINUING PROFESSIONAL DEVELOPMENT

The 'normobaric oxygen paradox': another potential way
to use oxygen. CME activity 2013/1

Balestra C

Oxygen, haematology, treatment, physiology, case reports,
research

2013;43(1):47-48.

Cerebral oxygen toxicity. CME activity 2013/2

Banham N

Oxygen, hyperbaric oxygen, hyperbaric oxygen therapy,
hyperoxia, toxicity, central nervous system, MOPS
(maintenance of professional standards)

2013;43(2):114-5.

Physiological effects of oxygen, breath-holding and
immersion. CME activity 2013/3

Fabricius C

MOPS (maintenance of professional standards), blood pressure, cerebral blood flow, diving reflex, hyperbaric oxygen, immersion, physiology
2013;43(3):176-7.

Diabetes and diving, CME activity 2013/4

Bennett M

MOPS (maintenance of professional standards), diabetes, medical conditions and problems, fitness to dive
2013;43(4):251-2.

CRITICAL APPRAISAL

Hyperbaric oxygen therapy no better than sham in improving post-concussion symptoms following mild traumatic brain injury

Bennett M

Brain injury, hyperbaric oxygen therapy, outcome, hyperbaric research, critical appraisal
2013;43(3):173.

Weak evidence that HBOT is of benefit in the treatment of patients with *Herpes zoster*

Bourke A, Hui B

Infectious diseases, hyperbaric oxygen therapy, outcome, hyperbaric research, critical appraisal
2013;43(3):174.

REUNION 2013

Reunion 2013, Tricontinental Scientific Meeting on Diving and Hyperbaric Medicine

2013;43(1):49.

2013;43(2):117.

SPUMS NOTICES and NEWS

SPUMS Diploma in Diving and Hyperbaric Medicine (updated March 2013)

Qualifications, underwater medicine, hyperbaric oxygen, research, medical society
2013;43(1):50.

Minutes of the SPUMS Executive, Committee teleconference
13 August 2012

Medical society, meetings

2013;43(1):51-53.

SPUMS website news

2013;43(1):53.

Australian and New Zealand Hyperbaric Medicine Group (ANZHMG) Chairman's Report November 2012

Smart D

Qualifications, medical society, underwater medicine, hyperbaric oxygen, research
2013;43(1):53-54.

Certificate in Diving and Hyperbaric Medicine of the Australian and New Zealand College of Anaesthetists

Szekely S

2013;43(1):54.

John Pennefather: 40 years' service at the Submarine and Underwater Medicine Unit

Hissink J

Military diving, diving research, research, general interest

2013;43(1):55.

Minutes for SPUMS Executive Committee meeting, 01-02 December 2012

Medical society, meetings

2013;43(2):121-3.

The SPUMS Annual General Meeting 2013, Notice of Meeting

Richardson K

Medical society, meetings

2013;43(2):124.

ANZHMG Chairman's report

Smart D

Hyperbaric oxygen therapy, occupational diving, standards, meetings, medical society

2013;43(3):183-4.

SPUMS Annual Scientific Meeting 2014

Banham N

2013;43(3):185.

EUBS NOTICES and NEWS

Executive Committee (as of September 2012)

2013;43(1):56.

EUBS Annual Scientific Meeting 2014 Preliminary Announcement

2013;43(1):57.

Phypode Fellows update

Buzzcott P

Research, diving research, hyperbaric research, decompression sickness, general interest

2013;43(3):178-9.

European Editor retiring, a successor is needed

2013;43(4):252.

Zetterström Award – Réunion2013

2013;43(4):252.

Musimu award – Réunion2013

2013;43(4):252.

EUBS 2014, First announcement and call for abstracts

2013;43(4):253.

THE POETRY DOCTOR

Losing virginity

Parker J

2013;43(3):187.

INSTRUCTIONS TO AUTHORS

Instructions to authors (Short version, updated December 2012)

2013;43(1):60.

Instructions to authors (Short version, updated June 2013)

2013;43(2):128.

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