

Diving and Hyperbaric Medicine

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Diving and Hyperbaric Medicine
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EDITORIALS

The Editor's offering

Mitchell SJ

2024 31 March;54(1):1.

Mitchell SJ

2024 30 June;54(2):85.

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2024 30 September;54(3):154.

Mitchell SJ

2024 20 December;54(4):264.

ORIGINAL ARTICLES

March 54 (1) 2024

Efficacy of searching in biomedical databases beyond MEDLINE in identifying randomised controlled trials on hyperbaric oxygen treatment

Khan K, Islam MS, Kaur M, Burns JK, Etherington C, Dion P-M, Alsayadi S, Boet S

Biomedical databases; Research methods; Systematic review

2024 31 March;54(1):2–8. doi: 10.28920/dhm54.1.2-8. PMID: 38507904.

Hyperbaric oxygen treatment for infants: retrospective analysis of 54 patients treated in two tertiary care centres
Ozgek Kangal K, Mirasoglu B

Hyperbaric medicine; Neonate; Newborn; Premature

2024 31 March;54(1):9–15. doi: 10.28920/dhm54.1.9-15. PMID: 38507905.

Effect of hyperbaric oxygen treatment on ischaemia-reperfusion injury in rats detorsioned after experimental ovarian torsion

Bulutlar E, Yilmaz A, Uluutku Bulutlar GB, Aslan Y, Bozdağ HN, Küçükodaci Z

Animal model; Antioxidants; Experimental; Hyperbaric research; Inflammation

2024 31 March;54(1):16–22. doi: 10.28920/dhm54.1.16-22. PMID: 38507906.

Review of saturation decompression procedures used in commercial diving

Imbert J-P, Matity L, Massimelli J-Y, Bryson P

Decompression tables; Occupational diving; Saturation diving

2024 31 March;54(1):23–38. doi: 10.28920/dhm54.1.23-38. PMID: 38507907.

Chain of events analysis in diving accidents treated by the Royal Netherlands Navy 1966-2023

Turner BL, van Ooij P-JAM, Wingelaar TT, van Hulst RA, Endert EL, Clarijs P, Hoencamp R

Arterial gas embolism; Decompression sickness; Incidents; Risk factors; Safety; Underwater hazards

2024 31 March;54(1):39–46. doi: 10.28920/dhm54.1.39-46. PMID: 38507908.

June 54 (2) 2024

Formulating policies and procedures for managing diving related deaths: a whole of state engagement from frontline and hospital services in Tasmania

Elliott EJ, Price K, Peters B

Autopsy findings; Diving deaths; Diving incidents; Diving medicine; Forensic pathology

2024 30 June;54(2):86–91. doi: 10.28920/dhm54.2.86-91. PMID: 38870949.

The use of hyperbaric oxygen for avascular necrosis of the femoral head and femoral condyle: a single centre's experience over 30 years

Currie JRB, Gawthrop IC, Banham ND

Bone healing; Bone necrosis; Dysbaric osteonecrosis; Hyperbaric research; Inflammation; Orthopaedics; Treatment

2024 30 June;54(2):92–96. doi: 10.28920/dhm54.2.92-96. PMID: 38870950.

Survey comparing the treatment of central retinal artery occlusion with hyperbaric oxygen in Australia and New Zealand with the recommended guidelines as outlined by the Undersea and Hyperbaric Medical Society

Emmerton W, Banham ND, Gawthrop IC

Blindness, sudden; Hyperbaric oxygen treatment; Hypoxia; Medical conditions and problems; Ophthalmology; Questionnaire; Vision

2024 30 June;54(2):97–104. doi: 10.28920/dhm54.2.97-104. PMID:38870951.

Clinical utility of dipstick urinalysis in assessing fitness to dive in military divers, submariners, and hyperbaric personnel

Melessen A, Wingelaar TT, van Ooij PJAM

Diving; Fitness to dive; Haematuria; Screening; Urology

2024 30 June;54(2):105–109. doi: 10.28920/dhm54.2.105-109. PMID: 38870952.

September 54 (3) 2024

Validation of necrotising infection clinical composite endpoint in a retrospective cohort of patients with necrotising soft tissue infections

Bion V, Jape D, Niesen R, Angliss M, Bruscano-Raiola F, Mitra B, Devaney B

Fournier's gangrene; Hyperbaric research; Necrotising fasciitis; Necrotising infections; Organ dysfunction scores

2024 30 September;54(3):155–161. doi: 10.28920/dhm54.3.155-161. PMID: 39288918.

The role of hyperbaric oxygen treatment in the management of spondylodiscitis

Canarlan Demir K, Turgut B, Sariyerli Dursun GB, Konyalioğlu FS, Zaman T

Discitis; Osteomyelitis; Pain; Recovery of function; Safety; Visual analog scale

2024 30 September;54(3):162–167. doi: 10.28920/dhm54.3.162-167. PMID: 39288919.

Methylphenidate and the risk of acute central nervous system oxygen toxicity: a rodent model and observational data in human divers

Gur I, Arieli Y, Matsliah Y

ADHD; Attention deficit hyperactivity disorder; Diving; Hyperbaric oxygen; Seizures

2024 30 September;54(3):168–175. doi: 10.28920/dhm54.3.168-175. PMID: 39288920.

Medical examination of divers after COVID-19 infection: a prospective, observational study using published (original and revised) guidelines for evaluation

Sadler C, Lussier A, Grover I, Van Hoesen K, Lindholm P

Diving medicine; Fitness to dive; Medicals – diving; Respiratory; Occupational diving

2024 30 September;54(3):176–183. doi: 10.28920/dhm54.3.176-183. PMID: 39288921.

Retrospective analysis of challenging cases for medical examiners of diving

Reus I, van de Sande E, Rienks R, Wingelaar T

Education; Fitness to dive; Medicals-diving; Recreational diving; Training

2024 30 September;54(3):184–187. doi: 10.28920/dhm54.3.184-187. PMID: 39288922.

Arterial dissection in scuba divers: a potential adverse manifestation of the physiological effects of immersion

Pollock NW, Lippmann J, Pearn J, Hayman J

Dissecting aneurysm; Dissecting aortic aneurysm; Dissecting coronary artery; Diving; Immersion; Mammalian dive response; Osteogenesis imperfecta

2024 30 September;54(3):188–195. doi: 10.28920/dhm54.3.188-195. PMID: 39288923.

Role of tympanocentesis in the prevention of middle ear barotrauma induced by fast buoyant ascent escape from 200 m underwater

Liu X, Yuan H, Peng J, Zhu G, Wang N, Wen Y, Zheng H, Fang Y, Wang W

Hearing loss; Submarine; Military diving; Deep diving; Rescue

2024 30 September;54(3):196–203. doi: 10.28920/dhm54.3.196-203. PMID: 39288924.

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Economic analysis of hyperbaric oxygen therapy for the treatment of ischaemic diabetic foot ulcers

Brouwer RJ, van Reijen NS, Dijkgraaf MG, Hoencamp R, Koelemay MJW, van Hulst RA, Ubbink DT

Peripheral arterial occlusive disease; Cost-effectiveness; Wound healing

2024 20 December;54(4):265–274. doi: 10.28920/dhm54.4.265-274. PMID: 39675733.

Hyperbaric oxygen therapy for idiopathic sudden sensorineural hearing loss: a cohort study of 10 versus more than 10 treatments

Laupland BR, Laupland KB, Thistlethwaite K

Dose; Hyperbaric research; Number of treatments; Outcomes

2024 20 December;54(4):275–280. doi: 10.28920/dhm54.4.275-280. PMID: 39675734.

Occurrence and resolution of freediving-induced pulmonary syndrome in breath-hold divers: an online survey of lung squeeze incidents

Yu E, Dong GZ, Patron T, Coombs M, Lindholm P, Tillmans F

Barotrauma; Pulmonary barotrauma; Pulmonary edema; Pulmonary oedema; Survey

2024 20 December;54(4):281–286. doi: 10.28920/dhm54.4.281-286. PMID: 39675735.

Modelling the risk factors for accidents in recreational divers: results from a cross-sectional evaluation in Belgium

Tournoy KG, Vandebotermiet M, Neuville P, Germonpré P
Diving incidents; Diving medicine; Diving research; ENT; Epidemiology; Fitness to dive; Health surveys
2024 20 December;54(4):287–295. doi: 10.28920/dhm54.4.287-295. PMID: 39675736.

Meclizine seasickness medication and its effect on central nervous system oxygen toxicity in a murine model
Wiener G, Jamison A, Tal D
Cholinergic antagonists; Closed circuit rebreathers; Diving; Histamine antagonists; Seizures
2024 20 December;54(4):296–300. doi: 10.28920/dhm54.4.296-300. PMID: 39675737.

Trends in competitive freediving accidents
Allinger J, Melikhov O, Lemaître F
Barotrauma; Blackout; Breath-hold diving; Central nervous system; Hypoxia; Loss of consciousness; Safety
2024 20 December;54(4):301–307. doi: 10.28920/dhm54.4.301-307. PMID: 39675738.

Divers treated in Townsville, Australia: worse symptoms lead to poorer outcomes
Blake DF, Crowe M, Lindsay D, Turk R, Mitchell SJ, Pollock NW
Decompression illness; Decompression sickness; Hyperbaric oxygen treatment; Oxygen; Recompression; Scuba diving
2024 20 December;54(4):308–319. doi: 10.28920/dhm54.4.308-319. PMID: 39675739.

SHORT COMMUNICATION

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Large lungs in divers: a risk for pulmonary barotrauma?
van Hulst RA, van Ooij PJAM
Air embolism; Lung function; Risk factors; Vital capacity
2024 30 September;54(3):225–229. doi: 10.28920/dhm54.3.225-229. PMID: 39288928.

REVIEW ARTICLES

March 54 (1) 2024

Reported outcome measures in necrotising soft tissue infections: a systematic review
Wackett J, Devaney B, Chau R, Ho J, King N, Grewal J, Armstrong J, Mitra B
Fournier's gangrene; Gas gangrene; Hyperbaric oxygen treatment; Intensive care medicine; Systematic review
2024 31 March;54(1):47–56. doi: 10.28920/dhm54.1.47-56. PMID: 38507909.

June 54 (2) 2024

Effects of CO₂ on the occurrence of decompression sickness: review of the literature
Daubresse L, Vallée N, Druelle A, Castagna O, Guieu R, Blatteau J-E
Bubbles; Carbogen; Carbon dioxide; Decompression illness; Diving; Hyperbaric; Hypercapnia; Hypobaric
2024 30 June;54(2):110–119. doi: 10.28920/dhm54.2.110-119. PMID: 38870953.

The role of routine cardiac investigations before hyperbaric oxygen treatment
Brenna CTA, Salvatori M, Khan S, Djaiani G, Schiavo S, Katznelson R
Cardiac complications; Echocardiography; Electrocardiography; Hyperbaric oxygen therapy; Risk assessment
2024 30 June;54(2):120–126. doi: 10.28920/dhm54.2.120-126. PMID: 38870954.

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Development of myopia in scuba diving and hyperbaric oxygen treatment: a case report and systematic review
Sokolowski SA, Räisänen-Sokolowski AK, Lundell RV
Myopization; Ophthalmology; Oxygen toxicity; Side effects; Recreational divers; Repetitive diving; Safety
2024 20 December;54(4):328–337. doi: 10.28920/dhm54.4.328-337. PMID: 39675741.

CASE REPORTS

March 54 (1) 2024

Secondary deterioration in a patient with cerebral and coronary arterial gas embolism after brief symptom resolution: a case report
Tsushima R, Mori K, Imaki S

Air embolism; Case reports; Hyperbaric oxygen treatment
2024 31 March;54(1):61–64. doi: 10.28920/dhm54.1.61-64. PMID: 38507911.
Hyperbaric oxygen for the treatment of carbon monoxide-induced delayed neurological sequelae: a case report and review of the literature
Wong ZKR, Teo CKA, Kwek JWM, Kim SJ, See HG
Hyperbaric medicine; Morbidity; Pain; Neurology; Psychology; Radiological imaging; Toxicity
2024 31 March;54(1):65–68. doi: 10.28920/dhm54.1.65-68. PMID: 38507912.
The first deep rebreather dive using hydrogen: case report
Harris RJ, Challen CJ, Mitchell SJ
Helihydrox; High pressure neurological syndrome; HPNS; Hydreliox; Hydrox; Technical diving; Trimix
2024 31 March;54(1):69–72. doi: 10.28920/dhm54.1.69-72. PMID: 38507913.

June 54 (2) 2024

Shunt-mediated decompression sickness in a compressed air worker with an atrial septal defect
Colvin AP, Hogg R, Wilmshurst PT
Bubbles; Compressed air work; Decompression sickness; Hyperbaric tunnel work; Migraine aura; Oxygen decompression; Persistent (patent) foramen ovale
2024 30 June;54(2):127–132. doi: 10.28920/dhm54.2.127-132. PMID: 38870955.
Hyperbaric oxygen treatment in bilateral orchiopexy and post-circumcision haematoma in a thrombocytopenic patient with Noonan syndrome
Dereli D, Çakiroğlu S, Köse AA, Tokar B
Case reports; Children; Haematology; Hyperbaric oxygenation; Injuries; Surgery
2024 30 June;54(2):133–136. doi: 10.28920/dhm54.2.133-136. PMID: 38870956.

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Maxillary sinus barotrauma with infraorbital nerve paraesthesia after breath-hold diving
Canarlan Demir K, Yücel Z
Diving incidents; Diving medicine; Neurological manifestations; Recovery of function; Valsalva manoeuvre
2024 30 September;54(3):230–232. doi: 10.28920/dhm54.3.230-232. PMID: 39288929.
Lateral ST-elevation myocardial infarction from systemic air embolism after CT guided lung biopsy
Htay AM, Wilson E
Arterial gas embolism; Cardiac; Coronary; Iatrogenic; Complications and management
2024 30 September;54(3):233–236. doi: 10.28920/dhm54.3.233-236. PMID: 39288930.
Bispectral index with density spectral array (BIS-DSA) monitoring in a patient with inner ear and cerebral decompression sickness
Schmitz G, Aguero S
Brain; Cerebral blood flow; Decompression illness; Diving; Inner ear; Electroencephalography
2024 30 September;54(3):237–241. doi: 10.28920/dhm54.3.237-241. PMID: 39288931.
Decompression sickness in surface decompression breathing air instead of oxygen
Risberg J, Midtgaard H
Decompression illness; Decompression tables; Diving tables; Incidents; Occupational diving
2024 30 September;54(3):242–248. doi: 10.28920/dhm54.3.242-248. PMID: 39288932.
Hyperbaric oxygen treatment (HBOT) in a case of traumatic chondronecrosis of the cricoid cartilage
Kumar S, Chaudhry HBS, Risham M, Lanjekar K, Mohanty C, Bhutani S
Chronic wounds; Larynx trauma; Hyperbaric medicine; Outcome; Tracheostomy complication
2024 30 September;54(3):249–251. doi: 10.28920/dhm54.3.249-251. PMID: 39288933.

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Anaesthetic and surgical management of gastric perforation secondary to a diving incident: a case report
Ben Ayad I, Damman C, vander Essen L, Majerus B
Hypoxia; Trauma; Surgery; Anaesthesia; Treatment; Ascent
2024 20 December;54(4):350–353. doi: 10.28920/dhm54.4.350-353. PMID: 39675744.
Recurrent cutaneous decompression sickness in a hyperbaric chamber attendant with a large persistent foramen ovale
Wilmshurst PT, Edge CJ
Bubbles; Echocardiography; Hyperbaric oxygen treatment; Migraine with aura; Oxygen; Working in compressed air
2024 20 December;54(4):354–359. doi: 10.28920/dhm54.4.354-359. PMID: 39675745.
Five consecutive cases of sensorineural hearing loss associated with inner ear barotrauma due to diving, successfully treated with hyperbaric oxygen

Smart D

Barotrauma; Case reports; Cochlea; Hearing loss, sudden; Hyperbaric oxygen treatment; Inner ear
2024 20 December;54(4):360–367. doi: 10.28920/dhm54.4.360-367. PMID: 39675746.

TECHNICAL REPORTS

September 54 (3) 2024

Acoustic emission, an innovative diagnosis tool for therapeutic hyperbaric chambers: or how to requalify safely using pneumatic pressure test

Catty J, Seguin O, Juillie J-L, Mathieu D, Parmentier-Decrucq E

Bioengineering; Equipment; Hyperbaric facilities; Hyperbaric oxygen treatment; Therapeutic hyperbaric chamber; Requalification

2024 30 September;54(3):204–211. doi: 10.28920/dhm54.3.204-211. PMID: 39288925.

Evaluation of a new hyperbaric oxygen ventilator during pressure-controlled ventilation

Wang C, Yu Q, Liu Y, Ren Z, Liu Y, Xue L

Airway resistance; Intensive care; Intermittent positive-pressure ventilation; Respiratory mechanics

2024 30 September;54(3):212–216. doi: 10.28920/dhm54.3.212-216. PMID: 39288926.

The investigation of diving accidents and fatalities

Lippmann J, Caruso J

Arterial gas embolism; Autopsy; Coroner; Decompression sickness; Diving deaths; Diving incidents; Investigations; Scuba

2024 30 September;54(3):217–224. doi: 10.28920/dhm54.3.217-224. PMID: 39288927.

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Dive medicine capability at Rothera Research Station (British Antarctic Survey), Adelaide Island, Antarctica
Wood FNR, Bowen K, Hartley R, Stevenson J, Warner M, Watts D

Cold; Diving; Diving emergencies; Drysuit; Recompression; Remote locations

2024 20 December;54(4):320–327. doi: 10.28920/dhm54.4.320-327. PMID: 39675740.

WORLD AS IT IS

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Equipose: an important ethical consideration when contemplating participation in a randomised controlled trial of hyperbaric oxygen treatment in necrotising soft tissue infections

Devaney B

Clinical trials; Ethics; Hyperbaric research

2024 31 March;54(1):57–60. doi: 10.28920/dhm54.1.57-60. PMID: 38507910.

June 54 (2) 2024

Drinker driver flyer diver

Laden G, Mathew B

Diving; Inert gas; Narcosis; Nitrogen; Scuba

2024 30 June;54(2):137–139. doi: 10.28920/dhm54.2.137-139. PMID: 38870957.

GUIDELINES

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South Pacific Underwater Medicine Society (SPUMS) position statement regarding paediatric and adolescent diving

Elliott E, Smart D, Lippmann J, Banham N, Nochetto M, Roehr S

Adolescents; Children; Fitness to dive; Medicals – diving; Recreational divers; Risk assessment; Scuba diving

2024 20 December;54(4):338–343. doi: 10.28920/dhm54.4.338-343. PMID: 39675742.

Joint position statement on immersion pulmonary oedema and diving from the South Pacific Underwater Medicine Society (SPUMS) and the United Kingdom Diving Medical Committee (UKDMC) 2024

Banham N, Smart D, Wilmschurst P, Mitchell SJ, Turner MS, Bryson P

Fitness for diving; Guideline; Immersion pulmonary edema; Scuba; Swimming induced pulmonary edema
2024 20 December;54(4):344–349. doi: 10.28920/dhm54.4.344-349. PMID: 39675743.

LETTERS TO THE EDITOR

March 54 (1) 2024

Time to shock people

Laden G, Mathew B, Ananthasayanam A

Cardiac; CPR, Defibrillation; First aid; Resuscitation

2024 31 March;54(1):73–74. doi: 10.28920/dhm54.1.73-74. PMID: 38507914.

Response to Laden et al.

Tabner A, Johnson G, Bryson P, and on behalf of the authorship team

Resuscitation; Defibrillation; Mechanical CPR; Cardiovascular; Letters (to the Editor)

2024 31 March;54(1):74–75. doi: 10.28920/dhm54.1.74-75. PMID: 38507915.

September 54 (3) 2024

Hyperbaric medicine and climate footprint

Varichon A, Pignel R, Boet S

Climate footprint; Ecology; Hyperbaric oxygen; Hyperbaric oxygen treatment; Life cycle assessment

2024 30 September;54(3):252. doi: 10.28920/dhm54.3.252. PMID: 39288934.

ERRATA

Correction in Elliott EJ, Price K, Peters B. Formulating policies and procedures for managing diving related deaths: a whole of state engagement from frontline and hospital services in Tasmania. *Diving and Hyperbaric Medicine*. 2024 30 June;54(2):86–91. doi: 10.28920/dhm54.2.86- 91. PMID: 38870949

Elliott EJ

2024 30 September;54(3):253. doi: 10.28920/dhm54.3.253. PMID: 39476422.

EUBS NOTICES and NEWS

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Annual Scientific Meeting 2024

2024;54(1):81.

EUBS Executive Committee

2024;54(1):81.

EUBS Affiliate Society agreements

2024;54(1):81.

June 54 (2) 2024

EUBS2024 Scientific Meeting on Diving and Hyperbaric Medicine

2024;54(2):140.

European Code of Good Practice in HBO Therapy (ECGP): Free download

2024;54(2):140.

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President's report

Blatteau J-E

2024;54(3):259.

EUBS Member-at-Large elections

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Blatteau J-E
2024;54(4):368.

EUBS 2025 Annual Scientific Meeting
2024;54(4):369.

SPUMS NOTICES AND NEWS**March 54 (1) 2024**

President's report
Banham N
2024;54(1):76–77.
SPUMS Diploma in Diving and Hyperbaric Medicine
Requirements for candidates (May 2014)
2024;54(1):79.
SPUMS Flyer ASM 2024
2024;54(1):80.

June 54 (2) 2024

President's report
Banham N
2024;54(2):143–144.
SPUMS ASM 2025 Flyer
2024;54(2):145.

September 54 (3) 2024

President's report
Banham N
2024;54(3):254.
Mike Bennett Scholarship
2024;54(4):256.

December 54 (4) 2024

President's report
Banham N
2024;54(4):372.

SUPPLEMENT**March 54 (1) 2024**

Decompression illness: a comprehensive overview
Mitchell SJ
Arterial gas embolism; Decompression sickness; Pathophysiology; Prevention; Pulmonary barotrauma;
Symptoms; Treatment
2024 31 March;54(1 Suppl):1–53. doi: 10.28920/dhm54.1.suppl.1-53. PMID: 38537300.