

# Diving and Hyperbaric Medicine

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## EDITORIALS

### The Editor's offering

Mitchell SJ

2022 March 31;52(1):1.

2022 June 30;52(2):77.

2022 September 30;52(3):163.

2022 December 20;52(4):236.

## ORIGINAL ARTICLES

### March 52 (1) 2022

Effect of enriched oxygen inhalation on lower limb skin temperatures in diabetic and healthy humans: a pilot study

Au-Yeung KL, Selvaraj C, Amin T, Ma LK, Bennett MH

Chronic wounds; Diabetes; Hyperoxia; Skin thermometry; Vasoconstriction

2022 March 31;52(1):2–6. doi: 10.28920/dhm52.1.2-6. PMID: 35313366.

Ceiling-controlled versus staged decompression: comparison between decompression duration and tissue tensions

Angelini SA, Tonetto L, Lang MA

Ascent; Computers-diving; Deep diving; Gradient factors; Pressure; Scuba

2022 March 31;52(1):7–15. doi: 10.28920/dhm52.1.7-15. PMID: 35313367.

Health and wellbeing of recently active United States scuba divers

Buzzacott P, Edelson C, Chimiak J, Tillmans F

Demography; Diving; Medical conditions and problems; Population; Surveillance

2022 March 31;52(1):16–21. doi: 10.28920/dhm52.1.16-21. PMID: 35313368.

Aural health awareness and incident prevention in UK scuba divers

St Leger Dowse M, Waterman MK, Jones R, Smerdon GR

Decompression sickness; ENT; ETDQ-7; Eustachian tube; Inner ear; Middle ear

2022 March 31;52(1):22–26. doi: 10.28920/dhm52.1.22-26. PMID: 35313369.

Hyperbaric oxygen treatment for refractory haemorrhagic cystitis occurring after chemotherapy and haematopoietic stem cell transplantation: retrospective analysis of 25 patients

Ozturk H, Mirosoğlu B, Aktas S

Cyclophosphamide; Hematopoietic stem cell transplantation; Hemorrhagic cystitis; Hyperbaric research

2022 March 31;52(1):27–34. doi: 10.28920/dhm52.1.27-34. PMID: 35313370.

Post COVID-19 fitness to dive assessment findings in occupational and recreational divers

Mirasoglu B, Yetis G, Erelel M, Toklu AS

Pulmonary barotrauma; Radiological imaging; SARS-CoV-2; Scuba diving

2022 March 31;52(1):35–43. doi: 10.28920/dhm52.1.35-43. PMID: 35313371.

### June 52 (2) 2022

Decompression illness in Finnish technical divers: a follow-up study on incidence and self-treatment

Tuominen LJ, Sokolowski S, Lundell RV, Räsänen-Sokolowski AK

Cold; Decompression sickness; First aid oxygen; Epidemiology; Hyperbaric oxygen treatment; Technical diving; Trimix

2022 June 30;52(2):78–84. doi: 10.28920/dhm52.2.78-84. PMID: 35732278.

A prospective single-blind randomised clinical trial comparing two treatment tables for the initial management of mild decompression sickness

Banham N, Hawkings P, Gawthrop I

2022 June 30;52(2):85–91. doi: 10.28920/dhm52.2.85-91. PMID: 35732279.

A survey of caustic cocktail events in rebreather divers

Buzzacott P, Dong GZ, Brenner RJ, Tillmans F

First aid; Incidents; Injuries; Safety; Technical diving

2022 June 30;52(2):92–96. doi: 10.28920/dhm52.2.92-96. PMID: 35732280.

The effect of pressure changes during simulated diving on the shear bond strength of orthodontic brackets

Gulve MN, Gulve ND

Barotrauma; Dental; Diving; Hyperbaric research; Scuba

2022 June 30;52(2):97–102. doi: 10.28920/dhm52.2.97-102. PMID: 35732281.

Quantifying drysuit seal pressures in non-immersed scuba divers  
Covington DB, Spears M, Wardhan R, Brennan M, Islam Y, Pitkin AD  
Diving; Latex; Paresthesia; Silicone; Technical diving  
2022 June 30;52(2):103–107. doi: 10.28920/dhm52.2.103-107. PMID: 35732282.  
A review of snorkelling and scuba diving fatalities in Queensland, Australia, 2000 to 2019  
Lippmann J  
Age; Breath-hold diving; Cardiac; Chain of events analysis; Diving deaths; Obesity  
2022 June 30;52(2):108–118. doi: 10.28920/dhm52.2.108-118. PMID: 35732283.  
Blood pressure in rats selectively bred for their resistance to decompression sickness  
Dugrenot E, Orsat J, Guerrero F  
Animal model; Circulation; Decompression illness; Genetics; Scuba diving  
2022 June 30;52(2):119–125. doi: 10.28920/dhm52.2.119-125. PMID: 35732284.  
Efficacy and safety of hyperbaric oxygen treatment to treat COVID-19 pneumonia: a living systematic review update  
Boet S, Etherington C, Ghanmi N, Ioudovski P, Tricco AC, Sikora L, Katznelson R  
Hyperbaric medicine; Hypoxia; Infection; SARS-CoV-2  
2022 June 30;52(2):126–135. doi: 10.28920/dhm52.2.126-135. PMID: 35732285.

### September 52 (3) 2022

Hyperbaric Oxygen for Lower Limb Trauma (HOLLT): an international multi-centre randomised clinical trial.  
Millar IL, Lind FG, Jansson K-A, Hájek M, Smart DR, Fernandes TD, McGinnes RA, Williamson OD, Miller RK, Martin CA, Gabbe BJ, Myles PS, Cameron PA  
Fractures; Hyperbaric oxygen treatment; Injuries; Musculo-skeletal; Orthopaedics; Outcome; Wounds  
2022 30 September;52(3):164–174. doi: 10.28920/dhm52.3.164-174. PMID: 36100927.  
Influence of atmospheric pressure changes on dentin bond strength of conventional, bulk-fill and single-shade resin composites  
Ata SO, Akay C, Mumcu E, Ata N  
Aviation medicine; Composite resin; Prosthodontics; Diving medicine; Hyperbaric medicine; Scanning electron microscopy; Teeth  
2022 30 September;52(3):175–182. doi: 10.28920/dhm52.3.175-182. PMID: 36100928.  
Lung function changes in divers after a single deep helium-oxygen dive  
Bao X, Yang T, Fang Y, Sun Y, Wang N  
Diving, Heliox; Hyperoxia; Pulmonary function; Surface decompression  
2022 30 September;52(3):183–190. doi: 10.28920/dhm52.3.183-190. PMID: 36100929.)  
Pretreatment hearing grades and hearing recovery outcomes after primary hyperbaric oxygen treatment in patients with idiopathic sudden sensorineural hearing loss  
Včeva A, Žubčić Ž, Mihalj H, Maleš J, Mendeš T, Šestak A  
Clinical audit; Deafness; ENT; Hyperbaric research; Otorhinolaryngology; Outcome  
2022 30 September;52(3):191–196. doi: 10.28920/dhm52.3.191-196. PMID: 36100930.

### December 52 (4) 2022

Hypoxia signatures in closed-circuit rebreather divers  
Popa D, Kutz C, Carlile M, Brett K, Moya EA, Powell F, Witucki P, Sadler R, Sadler C  
Physiology; Rescue; Safety; Technical diving; Training  
2022 December 20;52(4):237–244. doi: 10.28920/dhm52.4.237-244. PMID: 36525681.  
A review of accelerated decompression from heliox saturation in commercial diving emergencies  
Imbert J-P, Massimelli J-Y, Kulkarni A, Matity L, Bryson P  
Decompression sickness; Diving incidents; Emergency ascent; Emergency response; Saturation diving  
2022 December 20;52(4):245–259. doi: 10.28920/dhm52.4.245-259. PMID: 36525682.  
Effects of high oxygen tension on healthy volunteer microcirculation  
Cousin N, Goutay J, Girardie P, Favory R, Drumez E, Mathieu D, Poissy J, Parmentier E, Duburcq  
Hyperbaric oxygen treatment; Hyperoxia; Laser Doppler flowmetry; Near-infrared spectroscopy; Perfusion  
2022 December 20;52(4):260–270. doi: 10.28920/dhm52.4.260-270. PMID: 36525683.  
Delayed treatment for decompression illness: factors associated with long treatment delays and treatment outcome  
Sokolowski SA, Räisänen-Sokolowski AK, Tuominen LJ, Lundell RV  
Decompression sickness; Hyperbaric oxygen treatment; Epidemiology; First aid oxygen; Remote locations; Treatment sequelae  
2022 December 20;52(4):271–276. doi: 10.28920/dhm52.4.271-276. PMID: 36525684.

Descriptive study of decompression illness in a hyperbaric medicine centre in Bangkok, Thailand from 2015 to 2021

Chevasutho P, Premmaneesakul H, Sujirata A

Arterial gas embolism; Decompression sickness; Diving incidents; Hyperbaric oxygen treatment

2022 December 20;52(4):277–280. doi: 10.28920/dhm52.4.277-280. PMID: 36525685.

Agreement between ultrasonic bubble grades using a handheld self-positioning Doppler product and 2D cardiac ultrasound

Plogmark O, Hjelte C, Ekström M, Frånberg O

Decompression; Decompression illness; Decompression sickness; Diving research; Echocardiography;

Ultrasound; Venous gas emboli

2022 December 20;52(4):281–285. doi: 10.28920/dhm52.4.281-285. PMID: 36525686

## SHORT COMMUNICATION

### March 52 (1) 2022

A Delphi study to identify relevant scenarios as the first step toward an international hyperbaric medicine simulation curriculum

Boet S, Burns JK, Jenisset E, Papp M, Bourbonnais S, Pignel R

Education; Hyperbaric oxygen; Safety; Training

2022 March 31;52(1):44–48. doi: 10.28920/dhm52.1.44-48. PMID: 35313372.

### September 52 (3) 2022

Effect of hyperbaric oxygen treatment on skin elasticity in irradiated patients

Pandey K, Teguh DN, van Hulst RA

Breast cancer; Fibrosis; Late radiation tissue injuries; Radiotherapy; Radionecrosis

2022 September 30;52(3):208–212. doi: 10.28920/dhm52.3.208-212. PMID: 36100932.)

## REVIEW ARTICLE

### June 52 (2) 2022

Perspective on ultrasound bioeffects and possible implications for continuous post-dive monitoring safety

McCune EP, Le DQ, Lindholm P, Nightingale KR, Dayton PA, Papadopoulou V

Bubbles; Cavitation; Decompression; Decompression research; Venous gas emboli

2022 June 30;52(2):136–148. doi: 10.28920/dhm52.2.136-148. PMID: 35732286.

### September 52 (3) 2022

The role of routine pulmonary imaging before hyperbaric oxygen treatment

Brenna CTA, Khan S, Djaiani G, Buckley JC Jr, Katznelson R

Arterial gas embolism; Lung; Pneumothorax; Pulmonary barotrauma; Radiological imaging; Risk assessment

2022 30 September;52(3):197–207. doi: 10.28920/dhm52.3.197-207. PMID: 36100931.

## CASE REPORTS

### March 52 (1) 2022

Abnormal motor blockade after epidural analgesia caused by pneumorrhachis and the role of hyperbaric oxygen treatment: a case report

Romano-Ribeiro C, Gaio-Lima C, Ferreira AP, Oliveira B, Dias-Vaz M, Camacho O

Air; Anaesthesia; Bubbles; Case reports; Hyperbaric Medicine; Pregnancy

2022 March 31;52(1):54–57. doi: 10.28920/dhm52.1.54-57. PMID: 35313374.

A COVID-19 infection incidentally detected during hyperbaric oxygen treatment and preventive measures for COVID-19 transmission in a multiplace hyperbaric chamber

Demir AE, Ilbasım S, Toklu AS

Confined space; Contagion; Infectious diseases; Pressure chambers; SARS-CoV-2

2022 March 31;52(1):58–62. doi: 10.28920/dhm52.1.58-62. PMID: 35313375.

A diving physician's experience of dental barotrauma during hyperbaric chamber exposure: case report  
Altun BD, Sümen SG, Dumlu A  
Barodontalgia; Case reports; Hyperbaric oxygen treatment; Pain  
2022 March 31;52(1):63–65. doi: 10.28920/dhm52.1.63-65. PMID: 35313376.

#### **June 52 (2) 2022**

Hyperbaric oxygen treatment in a rare complication of intramuscular injection: four cases of Nicolau syndrome  
Korpınar S  
Case reports; Embolia cutis medicamentosa; Nicolau syndrome; Non-steroidal anti-inflammatories; Wounds  
2022 June 30;52(2):149–153. doi: 10.28920/dhm52.2.149-153. PMID: 35732287

#### **September 52 (3) 2022**

Recurrent dysbarism presenting with amnesia and hypoaesthesia in a professional breath-hold diver  
Diacono E, Magri K  
Breath-hold diving; Decompression sickness; Hyperbaric oxygen; Apnoea; Free diving  
2022 September 30;52(3):213–216. doi: 10.28920/dhm52.3.213-216. PMID: 36100933.  
Takotsubo cardiomyopathy findings on cardiac magnetic resonance imaging following immersion pulmonary oedema  
Stokes RJ, Sayers R, Sieniewicz BJ, Kim WC  
Cardiovascular; Case reports; Diving incidents; Diving medicine  
2022 September 30;52(3):217–220. doi: 10.28920/dhm52.3.217-220. PMID: 36100934.

#### **December 52 (4) 2022**

Electric shock leading to acute lung injury in a scuba diver  
Johnson-Arbor K  
Burns; Diving; Electric injuries; Salt water aspiration  
2022 December 20;52(4):286–288. doi: 10.28920/dhm52.4.286-288. PMID: 36525687.

### **THE WORLD AS IT IS**

#### **March 52 (1) 2022**

Is more complex safer in the case of bail-out rebreathers for extended range cave diving?  
Covington DB, Sadler C, Bielawski A, Lock G, Pitkin A  
Deep diving; Diving deaths; Equipment; Risk factors; Risk management; Safety; Technical diving  
2022 March 31;52(1):49–53. doi: 10.28920/dhm52.1.49-53. PMID: 35313373.

### **LETTERS TO THE EDITOR**

#### **March 52 (1) 2022**

Diving after COVID-19: an update to fitness to dive assessment and medical guidance  
Sadler C, Alvarez-Villela M, Van Hoesen K, Grover I, Lang M, Neuman T, Lindholm P  
Diving medicine; Fitness to dive; Medicals-diving; Occupational health; Pulmonary barotrauma; Recreational diving; Scuba  
2022 March 31;52(1):66–67. doi: 10.28920/dhm52.1.66-67. PMID: 35313377.

#### **September 51 (3) 2022**

Comment regarding: Han K-H, Hyun G-S, Jee Y-S, Park J-M. Effect of water amount intake before scuba diving on the risk of decompression sickness. *Int J Environ Res Publ Health*. 2021;18:7601  
Pollock NW, Blogg SL, Risberg J  
Decompression; Diving; Ultrasound; Safety; Physiology; Science publication  
2022 September 30;52(3):221–222. doi: 10.28920/dhm52.3.221-222. PMID: 36100935.  
Validation of very mild COVID-19 illness criteria to guide successful return to occupational diving  
Smart D  
Diving Medicine; Health surveillance; Medicals-diving; SARS-CoV-2; Lung function  
2022 September 30;52(3):222–223. doi: 10.28920/dhm52.3.222-223. PMID: 36100936.

Recompression of a diver with decompression illness found to be COVID-19 positive  
Mallam L, Watts D  
Decompression sickness; Diving Medicine; Infection control; SARS-CoV-2  
2022 September 30;52(3):223–224. doi: 10.28920/dhm52.3.223-224. PMID: 36100937.

## **OBITUARY**

### **March 52 (1) 2022**

Professor David Hallen Elliott OBE, DPhil, FRCP(Lond), FRCP(Ed), FFOM  
Millar I, Wendling J, van Kets M, Eftedal OS on behalf of the DMAC and the EDTCmed committees  
2022 March 31;52(1):68.

### **June 52 (2) 2022**

Professor Alf O Brubakk MD, PhD  
Lang MA  
2022 June 30;52(2):154.

### **September 51 (3) 2022**

Dr Cecilia Jacomina Roberts  
Mitchell S  
2022 September 30;52(3):225.

### **December 52 (4) 2022**

Professor Peter Bennett, PhD, DSc  
Mitchell S  
2022 December 20;52(4):289.

## **ERRATA**

### **September 52 (3) 2022**

Correction in: Boet S, Burns JK, Jenisset E, Papp M, Bourbonnais S, Pignel R. A Delphi study to identify relevant scenarios as the first step toward an international hyperbaric medicine simulation curriculum  
2022 September 30;52(3):226.  
Correction in: Banham N, Hawkings P, Gawthrop I. A prospective single-blind randomised clinical trial comparing two treatment tables for the initial management of mild decompression sickness  
2022 September 30;52(3):226.

## **EUBS NOTICES and NEWS**

### **March 52 (1) 2022**

Annual Scientific Meeting: 'EUBS2020' will finally happen in 2022  
2022 March 31;52(1):69.  
Passing of Professor David H Elliott  
2022 March 31;52(1):70.  
Ole Hyldegaard, MD, Ph.D., DMSci, Professor in Clinical Hyperbaric Medicine  
2022 March 31;52(1):71.  
Baltic International Symposium on Diving and Hyperbaric Medicine (BIS\_on\_DHM): Advances and up-to-date knowledge for professionals  
2022 March 31;52(1):71.

**June 52 (2) 2022**

EUBS2022 Scientific Meeting on Diving and Hyperbaric Medicine

2022 June 30;52(2):159.

Ukraine war position statement on EUBS website

2022 June 30;52(2):159–160.

EUBS elections – Member-at-Large

2022 June 30;52(2):160.

**September 52 (3) 2022**

Baltic Diving and Hyperbaric Medicine symposium 2022 – BIS\_DHM, 8–11 June 2022

Theunissen S

2022 September 30;52(3):232.

**2022 December 2022**

EUBS 2023 Annual Scientific Meeting

2022 December 20;52(4):291.

EUBS Annual General Assembly

2022 December 20;52(4):291.

**EUBS PRESIDENT’S MESSAGE****March 52 (1) 2022**

Blatteau J-E

2022 March 31;52(1):69.

**June 52 (2) 2022**

Blatteau J-E

2022 June 30;52(2):159.

**December 52 (4) 2022**

Blatteau J-E

2022 December 20;52(4):290.

**SPUMS NOTICES AND NEWS****March 52 (1) 2022**

The Australian and New Zealand Hyperbaric Medicine Group 2022

2022 March 31;52(1):73.

Australian and New Zealand College of Anaesthetists Diving and Hyperbaric Medicine Special Interest Group

2022 March 31;52(1):73.

SPUMS Diploma in Diving and Hyperbaric Medicine

2022 March 31;52(1):74.

**September 52 (3) 2022**

Annual Scientific Meeting 2023 – first notice

2022 September 30;52(3):228.

## **SPUMS PRESIDENT'S MESSAGE**

**March 52 (1) 2022**

Banham N

2022 March 31;52(1):72.

**June 52 (2) 2022**

Banham N

2022 June 30;52(2):155.

**September 52 (3) 2022**

Banham N

2022 September 30;52(3):227.

**December 52 (4) 2022**

Banham N

2022 December 20;52(4):293.