

# **Diving and Hyperbaric Medicine**

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## **EDITORIALS**

### **The Editor's offering**

Davis M

2016;46(1):1.

2016;46(2):69.

Chronic wounds; diabetes; diving deaths; buoyancy; evidence; editorials

2016;46(3):135.

Deaths; Scuba; Technical diving; DAN – Divers Alert Network; Editorials

2016;46(4):197.

### **The Presidents' pages**

Smart D

Medical society; general interest

2016;46(1):2.

Medical society; general interest

2016;46(2):70-71.

Medical society; diabetes; fitness to dive; general interest

2016;46(3):136.

Occupational diving; Standards; Medical society; General interest

2016;46(4):198-199.

Kot J

Medical society; general interest

2016;46(1):3.

Medical society; hyperbaric medicine; policy; general interest

2016;46(3):137.

Medical society; Membership; Constitutional amendments; General interest

2016;46(4):199.

## **EDITORIALS**

Poorly designed research does not help clarify the role of hyperbaric oxygen in the treatment of chronic diabetic foot ulcers

Mutluoglu M, Uzun G, Bennett M, Germonpré P, Smart D, Mathieu D

Hyperbaric research; chronic wounds; diabetes; evidence; outcome; editorial

2016;46(3):133-134.

## **JOURNAL ARTICLES**

Venous gas emboli detected by two-dimensional echocardiography are an imperfect surrogate endpoint for decompression sickness

Doolette DJ

Venous gas emboli; echocardiography; decompression sickness; decompression; diving; research; statistics

2016;46(1):4-10.

The effect of scuba diving on air flow obstruction in divers with asthma

Lawrence CHD, Chen IYD

Lung function; respiratory; diving research

2016;46(1):11-14.

Iatrogenic cerebral gas embolism: analysis of the presentation, management and outcomes of patients referred to the Alfred Hospital Hyperbaric Unit

Beevor H, Frawley G

Cerebral arterial gas embolism (CAGE); venous gas embolism; hyperbaric oxygen therapy; outcome; clinical audit

2016;46(1):15-21.

Evaluation of tympanic membrane bleeding complications during HBOT in patients with or without antiplatelet and anticoagulant drug treatment

Fijen VA, Westerweel PE, van Ooij PJAM, van Hulst RA

Middle ear; barotrauma; hyperbaric oxygen therapy; medication; cardiovascular; haematology; risk factors

2016;46(1):22-25.

Perilymphatic fistula after underwater diving: a series of 11 cases

Morvan J-B, Gemppe E, Rivière D, Louge P, Vallee P, Verdalle P

Inner ear; ear barotrauma; scuba diving; breath-hold diving; ENT; surgery; outcome

2016;46(2):72-75.

Quantitative analysis of inner-ear barotrauma using a Eustachian tube function analyser  
Kitajima N, Sugita-Kitajima A, Kitajima S  
ENT; scuba diving; injuries; vertigo; patient monitoring; equipment  
2016;46(2):76-81.

A comparison of simple reaction time, visual discrimination and critical flicker fusion frequency in professional divers at elevated pressure  
Tikkinen J, Wuorimaa T, Siimes MA  
Narcosis; nitrogen; performance; psychology  
2016;46(2):82-86.

Decompression illness treated in Denmark 1999–2013  
Svendsen Juhl C, Hedetoft M, Bidstrup D, Jansen EC, Hyldegaard O  
Decompression sickness; diving incidents; hyperbaric oxygen therapy; recompression; outcome  
2016;46(2):87-91.

The duration of two carbon dioxide absorbents in a closed-circuit rebreather diving system  
Harvey D, Pollock NW, Gant N, Hart J, Mesley P, Mitchell SJ  
Technical diving; equipment; rebreathing; exercise; risk management; safety  
2016;46(2):92-97.

User settings on dive computers: reliability in aiding conservative diving  
Sayer MDJ, Azzopardi E, Sieber A  
Computers – diving; decompression; safety; altitude; persistent (patent) foramen ovale (PFO); enriched air – nitrox; review article  
2016;46(2):98-110.

Influence of the diving wetsuit on standard spirometry  
Schellart NAM, Sterk W  
Lung function; pulmonary function; age; risk factors  
2016;46(3):138-141.

Danish diving-related fatalities 1999–2012  
Vinkel J, Bak P, Hyldegaard O  
Diving injuries; diving deaths; buoyancy; drowning; scuba diving; root cause analysis  
2016;46(3):142-149.

Thirty years of American cave diving fatalities  
Potts L, Buzzacott P, Denoble P  
Deaths; recreational diving; technical diving; root cause analysis; epidemiology; DAN – Divers Alert Network  
2016;46(3):150-154.

Safety of transport and hyperbaric oxygen treatment in critically-ill patients from Padua hospitals into a centrally-located, stand-alone hyperbaric facility  
Bosco G, Garetto G, Rubini A, Paoli A, Dalvi P, Mangar D, Camporesi EM  
Hyperbaric oxygen therapy; intensive care medicine; infectious diseases; fasciitis, necrotizing; transport; clinical audit  
2016;46(3):155-159.

Hyperbaric oxygen therapy in the treatment of sudden sensorineural hearing loss: a retrospective analysis of outcomes  
Sherlock S, Thistlethwaite K, Khatun M, Perry C, Tabah A  
ENT; inner ear; risk factors  
2016;46(3):160-165.

The effect of general anaesthesia and neuromuscular blockade on Eustachian tube compliance: a prospective study  
Mungur A, Cochard G, Ozier Y, Lafère P  
Tympanometry; middle ear; ear barotrauma; ENT  
2016;46(3):166-169.

Remote ischaemic conditioning in a rat model subjected to decompression stress  
Schmidt NH, Hansen K, Lauridsen H, Vesterby A, Nyengaard JR, Brubakk A, Pedersen M  
Decompression sickness; venous gas embolism; platelets; metabolism; central nervous system; ischaemic preconditioning  
2016;46(3):170-175.

The demographics and diving behaviour of DAN Asia-Pacific members with and without pre-existing medical conditions  
Lippmann J, McD Taylor D, Stevenson C, Mitchell S  
Survey; Fitness to dive; Health surveillance; Cardiovascular; Scuba divers; Recreational divers  
2016;46(4):200-206.

Provisional report on diving-related fatalities in Australian waters in 2011

Lippmann J, Lawrence C, Fock A, Jamieson S, Harris R

Diving; Deaths; Scuba; Breath-hold diving; Surface-supply breathing apparatus (SSBA); Diving incidents; Case reports

2016;46(4):207-240.

Estimating the risk of a diving fatality in Australia

Lippmann J, Stevenson C, Taylor D McD, Williams J

Deaths; Diving incidents; Recreational diving; Survey; Statistics

2016;46 (4):241-246.

The influence of pressure changes on the retentive force and coronal microleakage of different types of posts in endodontically treated teeth during simulated dives

Mitov G, Draenert F, Schumann P, Stotzer M, von See C

Dental; pressure; barotrauma; barodontalgia

2016;46(4):247-252.

### **TECHNICAL REPORTS**

The measurement of Eustachian tube function in a hyperbaric chamber using an ear canal microphone

Fischer H-G, Koch A, Kähler W, Pohl M, Pau H-W, Zehlicke T

ENT; ear; barotrauma; Valsalva manoeuvre; middle ear; physiology

2016;46(1):33-37.

A modified device for continuous non-invasive blood pressure measurements in humans under hyperbaric and/or oxygen-enriched conditions

van der Bel R, Sliggers BC, van Houwelingen MJ, van Lieshout JJ, Halliwill JR, van Hulst RA, Krediet CTP

Patient monitoring; hyperbaric facilities; cardiovascular; physiology

2016;46(1):38-42.

### **REVIEW ARTICLES**

Increasing the probability of surviving loss of consciousness underwater when using a rebreather

Haynes P

Diving incidents; Drowning; Safety; Rebreathers/closed circuit; Technical diving; Unconsciousness

2016;46(4):253-259.

### **CASE REPORTS**

Hyperbaric oxygen for the treatment of the rare combination of central retinal vein occlusion and cilioretinal artery occlusion

Celebi ARC, Kilavuzoglu AE, Altiparmak UE, Cosar CB, Ozkiris A

Vision; sudden blindness; hyperbaric oxygen therapy; case report

2016;46(1):50-53.

Inner-ear decompression sickness in nine trimix recreational divers

Guenzani S, Mereu D, Messersmith M, Olivari D, Arena M, Spanò A

Decompression illness; helium; scuba/open circuit; rebreathers/semi-closed circuit; rebreathers/closed circuit; persistent (patent) foramen ovale (PFO); case reports

2016;46(2):111-116.

Cerebral arterial gas embolism after pre-flight ingestion of hydrogen peroxide

Smedley BL, Gault A, Gawthrop IC

Hyperbaric oxygen therapy; aviation; barotrauma; barometric pressure; case reports

2016;46(2):117-119.

Middle ear barotrauma causing transient facial nerve paralysis after scuba diving

Carmichael ML, Boyev KP

Injuries; ENT; Diving incidents; Case reports

2016;46(4):260-261.

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

The use of hyperbaric oxygen treatment for sudden sensorineural hearing loss in Europe

Uzun G, Mutluoglu M, Metin S

Hearing; hyperbaric oxygen therapy; hyperbaric facilities; survey

2016;46(1):43-46.

Requests for emergency hyperbaric oxygen treatment for carbon monoxide poisoning in Ankara, Turkey

Özgök-Kangal MK, Karatop-Cesur I, Akcalı G, Yildiz S, Uzun G

Toxicity; transport; hyperbaric medicine; clinical audit

2016;46(3):176-180.

A day in the life of a diabetic diver: the Undersea and Hyperbaric Medical Society/Divers Alert Network protocol for diving with diabetes in action

Johnson R

Scuba diving; health status; exercise; blood glucose level; endocrinology; safety

2016;46(3):181-185.

### **OPINION**

Insulin-dependent diabetes mellitus and recreational scuba diving in Australia

Johnson R

Medical conditions and problems; fitness to dive; disability; health status; DAN – Divers Alert Network; instruction – diving

2016;46(3):186-188.

### **PRACTICE GUIDELINE**

Detection of a persistent foramen ovale using echocardiography

Wilmshurst P

Bubbles; decompression; patent foramen ovale; lung; right-to-left shunt; investigations

2016;46(1):47-49.

### **CONSENSUS DEVELOPMENT CONFERENCE**

Consensus guidelines for the use of ultrasound for diving research

Møllerløkken A, Blogg SL, Doolette DJ, Nishi RY, Pollock

Doppler; echocardiography; bubbles; cardiovascular; right-to-left shunt; decompression illness; diving research; meetings; review article

2016;46(1):26-32.

Tenth European Consensus Conference on Hyperbaric Medicine: preliminary report

Mathieu D, Marroni A, Kot J

Hyperbaric oxygen therapy; meetings; abstracts

2016;46(2):122-123.

### **LETTERS TO THE EDITOR**

Hyperbaric oxygen therapy for osteoradionecrosis

Cooper PD, Smart DR

Hyperbaric facilities; health; economics; osteoradionecrosis: evidence; letter (to the Editor)

2016;46(1):56-57.

Retraction of three papers investigating transcutaneous oxygen tensions in healthy volunteers

Blake DF, Young DA, Brown LH

Transcutaneous oximetry; retraction; letters (to the Editor)

2016;46(1):57.

Tissue oxygenation using different oxygen delivery devices and flow rates

Jüttner B, Großheim M, Theiss M

First aid; equipment; performance; transcutaneous oximetry; letter (to the Editor)

2016;46(1):58.

Reply:

Blake DF, Brown LH

First aid; equipment; performance; transcutaneous oximetry; letter (to the Editor)

2016;46(1):58-59.

Vale Carl Edmonds

Edmonds C

No key words

2016;46(1):59.

Iatrogenic cerebral gas embolism

Moon RE

Cerebral arterial gas embolism (CAGE); clinical audit; radiological imaging; outcome; letters (to the Editor)

2016;46(2):119.

Reply

Frawley G

Cerebral arterial gas embolism (CAGE); clinical audit; radiological imaging; outcome; letters (to the Editor)

2016;46(2):120.

The effect of scuba diving on airflow obstruction in divers with asthma  
Edge C  
Lung function; statistics; letters (to the Editor)  
2016;46(2):120-121.  
Reply  
Lawrence C, Chen I  
Lung function; statistics; letters (to the Editor)  
2016;46(2):121.  
Carbon dioxide absorbents for rebreather diving  
Pennefather J  
Rebreathers/closed circuit; rebreathers/semi-closed circuit; risk factors, letters (to the Editor)  
2016;46(3):180.  
Hypothesis: the influence of cavitation or vacuum phenomenon for decompression sickness  
Yanagawa Y, Omori K, Ishikawa K, Jitsuiki K, Yoshizawa T, Takeuchi I, Ohsaka H  
Bubbles; letters (to the Editor)  
2016;46(4):190.  
Commentary:  
Balestra C  
Decompression sickness; bubbles; letters (to the Editor)  
2016;46(3):190-191.

### **BOOK AND JOURNAL REVIEWS**

Diving and Subaquatic Medicine  
Edmonds C, Bennett M, Lippmann J, Mitchell S, editors  
Kot J  
No key words  
2016;46(1):60-61.  
Undersea and Hyperbaric Medical Society  
Guidelines for Hyperbaric Facility Operations, 2nd edition  
Workman WT, editor  
Goble S  
Hyperbaric facilities; safety; standards; training; book reviews  
2016;46(1):61-62.  
Deep into deco: the diver's decompression Textbook  
Salama A, editor  
van der Hulst G  
Decompression; decompression tables; computers - diving; models; book reviews  
2016;46(1):62.  
DAN Annual Diving Report, 2015 Edition A report on 2010–2013 diving incidents, injuries and fatalities  
Buzzacott P  
Van der Hulst G  
Diving deaths; diving incidents; age; book reviews  
2016;46(2):125-126.  
The Leading Edge, Innovation, technology and people in Australia's Royal Flying Doctor Service  
Langford S, editor  
Bennett M  
Aviation; Book reviews; General interest  
2016;46(4):263.

### **CRITICAL APPRAISAL**

Pre-emptive treatment with hyperbaric oxygen following radiation therapy for head and neck cancer may prevent the onset of late radiation tissue injury  
Wood D, Bennett M  
No key words  
2016;46(2):124.  
No evidence of benefit with hyperbaric oxygen therapy for sudden hearing loss  
Smart D  
ENT; inner ear; critical appraisal  
2016;46(3):189.

## **RETRACTIONS**

Transcutaneous oximetry measurement: normal values for the upper limb

Young DA, Blake DF, Brown LH

Retractions

2016;46(1):54.

Transcutaneous oximetry: normal values for the lower limb

Blake DF, Young DA, Brown LH

Retractions

2016;46(1):54.

## **PARTIAL RETRACTION**

A comparison of the tissue oxygenation achieved using different oxygen delivery devices and flow rates.

Blake DF, Naidoo P, Brown LH, Young DA, Lippmann J

Retractions

2016;46(1):55.

The effect of scuba diving on airflow obstruction in divers with asthma

Lawrence CHD, Chen IYD

Retractions

2016;46(4):262.

## **PUBLISHED ERRATUM**

Hyperbaric oxygen therapy for osteoradionecrosis

Cooper PD, Smart DR

Erratum

2016;46(2):126.

A modified device for continuous non-invasive blood pressure measurements in humans under hyperbaric and/or oxygen-enriched conditions

van der Bel R, Sliggers BC, van Houwelingen MJ, van Lieshout JJ, Halliwill JR, van Hulst RA, Krediet CTP

Erratum

2016;46(3):191.

User settings on dive computers: reliability in aiding conservative diving

Sayer MDJ, Azzopardi E, Sieber A

Erratum

2016;46(3):191.

## **SPUMS NOTICES and NEWS**

SPUMS Annual Scientific Meeting 2016

2016;46(1):64.

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

2016;46(1):64.

SPUMS Diploma in Diving and Hyperbaric Medicine

2016;46(1):65.

David 'Wilko' Wilkinson

2016;46(3):193.

Terry Cummins

2016;46(3):193.

Associate Professor Neal W Pollock, PhD

2016;46(4):265.

Education Officer's Report, October, 2016

2016;46(4):265.

## **EUBS NOTICES and NEWS**

42nd EUBS Annual Scientific Meeting 2016

2016;46(1):63.

Associate Professor Jacek Kot

2016;46(1):63.

Zetterström Award

2016;46(4):264.

Patrick Musimu Award

2016;46(4):264.