

# Diving and Hyperbaric Medicine

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

**SPUMS**

*Volume 46 No. 2 June 2016*

**EUBS**



## Conservatism settings in dive computers

Inner-ear barotrauma and Eustachian tube function

Perilymph fistula from inner-ear barotrauma

Inner-ear decompression sickness in trimix divers

Critical flicker fusion and diver performance

Different carbon dioxide absorbants are not equivalent

15 years of decompression sickness in Denmark

# CONTENTS

Diving and Hyperbaric Medicine Volume 46 No. 2 June 2016

## Editorials

- 69 The Editor's offering
- 70 The Presidents' pages

## Journal articles

- 72 **Perilymphatic fistula after underwater diving: a series of 11 cases**  
Jean-Baptiste Morvan, Emmanuel Gempp, Damien Rivière, Pierre Louge, Nicolas Vallee and Pierre Verdalle
- 76 **Quantitative analysis of inner-ear barotrauma using a Eustachian tube function analyzer**  
Naoharu Kitajima, Akemi Sugita-Kitajima and Seiji Kitajima
- 82 **A comparison of simple reaction time, visual discrimination and critical flicker fusion frequency in professional divers at elevated pressure**  
Janne Tikkinen, Tomi Wuorimaa and Martti A Siimes
- 87 **Decompression illness treated in Denmark 1999–2013**  
Christian Svendsen Juhl, Morten Hedetoft, Daniel Bidstrup, Erik Christian Jansen and Ole Hyldegaard
- 92 **The duration of two carbon dioxide absorbents in a closed-circuit rebreather diving system**  
David Harvey, Neal W Pollock, Nicholas Gant, Jason Hart, Peter Mesley and Simon J Mitchell
- 98 **User settings on dive computers: reliability in aiding conservative diving**  
Martin DJ Sayer, Elaine Azzopardi and Arne Sieber

## Case reports

- 111 **Inner-ear decompression sickness in nine trimix recreational divers**  
Silvia Guenzani, Diego Mereu, Mark Messersmith, Diego Olivari, Mario Arena and Andrea Spanò
- 117 **Cerebral arterial gas embolism after pre-flight ingestion of hydrogen peroxide**  
Ben L Smedley, Alan Gault and Ian C Gawthrop

## Letters to the Editor

- 119 **Iatrogenic cerebral gas embolism**  
Richard E Moon
- 120 **Reply**  
Associate Professor Geoff Frawley
- 120 **The effect of scuba diving on airflow obstruction in divers with asthma**  
Chris Edge
- 121 **Reply**  
Chris Lawrence, Isobel Chen

## Consensus Development Conference

- 122 **Tenth European Consensus Conference on Hyperbaric Medicine: preliminary report**  
Daniel Mathieu, Alessandro Marroni and Jacek Kot

## Book review

- 125 **DAN Annual Diving Report, 2015 Edition A report on 2010-2013 diving incidents, injuries and fatalities**  
Greg van der Hulst

## Published erratum

- 125 **Letter to the Editor (Cooper PD, Smart DR. Hyperbaric oxygen therapy for osteoradionecrosis. Diving Hyperb Med. 2016;46:55-7.)**

## EUBS notices and news

- 127 **42nd EUBS Annual Scientific Meeting 2016**
- 127 **EUBS Young Investigators research and education session**
- 128 **EUBS AGM 2016 Invitation and Agenda**
- 128 **EUBS Executive Committee Elections**
- 128 **The Science of Diving**

## SPUMS notices and news

- 129 **SPUMS Annual Scientific Meeting 2017**
- 129 **Australian and New Zealand College of Anaesthetists**
- 130 **SPUMS Diploma in Diving and Hyperbaric Medicine**
- 131 **Courses and meetings**

Diving and Hyperbaric Medicine is indexed on MEDLINE, SciSearch® and Embase/Scopus

Printed by Snap Printing, 166 Burwood Road, Hawthorn, Victoria 3122, <hawthorn@snapprinting.com.au>