# **CONTENTS**

# Diving and Hyperbaric Medicine Volume 50 No.1 March 2020

### 1 The Editor's offering

# **Original articles**

- 2 Assessment of pulmonary oxygen toxicity in special operations forces divers under operational circumstances using exhaled breath analysis
  - Thijs T Wingelaar, Paul Brinkman, Rigo Hoencamp, Pieter-Jan AM van Ooij, Anke-Hilse Maitland-van der Zee, Markus W Hollmann, Rob A van Hulst
- 9 Factors influencing the severity of long-term sequelae in fishermen-divers with neurological decompression sickness
  Jean-Eric Blatteau, Kate Lambrechts, Jean Ruffez
- 17 Measurement of peripheral arterial tonometry in patients with diabetic foot ulcers during courses of hyperbaric oxygen treatment
  - Morten Hedetoft, Niels V Olsen, Isabel G Smidt-Nielsen, Anna M Wahl, Anita Bergström, Anders Juul, Ole Hyldegaard
- 24 Haemoconcentration, not decreased blood temperature, increases blood viscosity during cold water immersion
  Kaitlyn A Rostomily, Douglas M Jones, Carina M Pautz, Danica W Ito, Michael J Buono
- 28 Professional diver routine health surveillance and certification: an internet-based satisfaction survey of New Zealand divers
  - Chris Sames, Des F Gorman, Simon J Mitchell, Lifeng Zhou
- 34 Comparison of tissue oxygenation achieved breathing oxygen using different delivery devices and flow rates
  Denise F Blake, Melissa Crowe, Daniel Lindsay, Annie Brouff, Simon J Mitchell, Peter A Leggat, Neal W Pollock
- 43 Manned validation of a US Navy Diving Manual, Revision 7, VVal-79 schedule for short bottom time, deep air decompression diving

  Brian T Andrew, David J Doolette

#### **Review articles**

- **Diving with hypertension and antihypertensive drugs**Peter E Westerweel, Rienk Rienks, Ahmed Sakr, Adel Taher
- 54 The current use of wearable sensors to enhance safety and performance in breath-hold diving: A systematic review Giovanni Vinetti, Nicola F Lopomo, Anna Taboni, Nazzareno Fagoni, Guido Ferretti

# **Case reports**

- Pulmonary barotrauma: a case report with illustrative radiology
  Sarah Bigeni, Mario Saliba
- 70 Symptoms of central nervous system oxygen toxicity during 100% oxygen breathing at normobaric pressure with increasing inspired levels of carbon dioxide: a case report Mirit Eynan, Yehuda Arieli, Boris Taran, Yoav Yanir

## Letter to the Editor

75 Effect of an air break on the occurrence of seizures in hyperbaric oxygen therapy may be predicted by the power equation for hyperoxia at rest

## **Obituary**

- 77 Francis Alfred (Frank) Blackwood
  John Pennefather
- 78 Diving and Hyperbaric Medicine reviewers in 2019

## **EUBS** notices and news

- 80 EUBS 2020
- 80 EUBS Notices and news
- 82 Fifty years of the Dutch Foundation for Diving Research

## **SPUMS** notices and news

- 83 SPUMS President's message David Smart
- 86 SPUMS Notices and news
- 87 SPUMS Diploma in Diving and Hyperbaric Medicine
- 88 Courses and meetings
- 89 Diving and Hyperbaric Medicine: Instructions for Authors (summary)