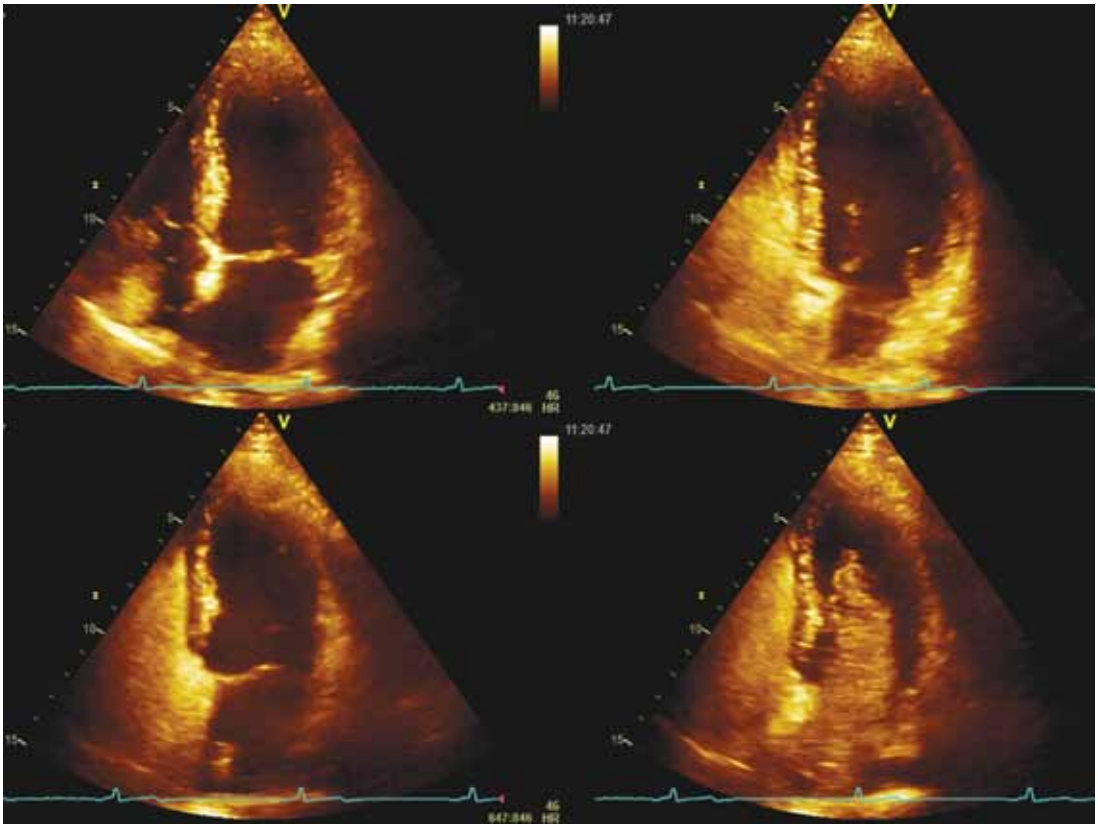
Diving and Hyperbaric Medicine

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

SPUMS

Volume 45 No. 2 June 2015

EUBS



Special issue

Persistent foramen ovale and decompression illness

First-aid O_2 devices for injured divers: which and how much O_2?

Are skin bends due to brain injury in decompression illness?

Does alcohol protect rats from decompression sickness?

Survival from 'poppers' and alcohol: a role for HBOT?

Print Post Approved PP 100007612

ISSN 1833-3516, ABN 29 299 823 713

CONTENTS

Diving and Hyperbaric Medicine Volume 45 No. 2 June 2015

Editorial

73 Persistent (patent) foramen ovale (PFO): implications for safe diving
Peter Germonpré

Original articles

75 A rat model of chronic moderate alcohol consumption and risk of decompression sickness
Peter Buzzacott, Aleksandra Mazur, Qiong Wang, Kate Lambrechts, Michael Theron, François Guerrero

79 A comparison of the tissue oxygenation achieved using different oxygen delivery devices and flow rates
Denise F Blake, Philip Naidoo, Lawrence H Brown, Derelle Young, John Lippmann

84 *Cutis marmorata* in decompression illness may be cerebrally mediated: a novel hypothesis on the aetiology of *cutis marmorata*
Tom CPM Kemper, Rienk Rienks, Pieter-Jan AM van Ooij, Rob A van Hulst

89 Comparison of the size of persistent foramen ovale and atrial septal defects in divers with shunt-related decompression illness and in the general population
Peter T Wilmshurst, W Lindsay Morrison, Kevin P Walsh, Matthew J Pearson and Simon Nightingale

94 An audit of persistent foramen ovale closure in 105 divers
Alex Pearman, Luc Bugeja, Martin Nelson, Gergely V Szantho, Mark S Turner

Review articles

98 The role of persistent foramen ovale and other shunts in decompression illness
Peter T Wilmshurst

105 Pathophysiology of inner ear decompression sickness: potential role of the persistent foramen ovale
Simon J Mitchell, David J Doolette

111 Assessing potential divers with a history of congenital heart disease
Mark S Turner

PFO and ASD case reports

116 Delayed blood-brain barrier disruption after shallow-water diving demonstrated by magnetic resonance imaging
Amir Hadanny, Sigal Tal, Gregori Fishlev, Yair Bechor, Shai Efrati

121 Atrial septal defect: a coincidental finding on a screening medical
Elizabeth J Elliott

124 Cerebral arterial gas embolism in a professional diver with a persistent foramen ovale
Colin M Wilson, Martin DJ Sayer

126 Diving and percutaneous closure of persistent (patent) foramen ovale
Efrén Martinez-Quintana, Silvia Gopar-Gopar, Fayna Rodriguez-González

Persistent foramen ovale and diving

129 Joint statement of the South Pacific Underwater Medicine Society (SPUMS) and the United Kingdom Sports Diving Medical Committee (UKSDMC)
David Smart, Simon Mitchell, Peter Wilmshurst, Mark Turner and Neil Banham

Other case reports

132 Severe methaemoglobinaemia treated with adjunctive hyperbaric oxygenation
Joerg Lindenmann, Nicole Fink-Neuboeck, Gernot Schilcher and Freyja M Smolle-Juettner

Letters to the Editor

135 Inner-ear decompression sickness: 'hubble-bubble' without brain trouble?
Lucio Tremolizzo, Massimo Malpieri, Carlo Ferrarese, Ildebrando Appollonio

136 Grommets in HBOT patients: GA vs LA, unanswered questions
Clinton R Gibbs, Katherine H Commons

Correction

137 Correction and response to: Grommets in HBOT patients: GA vs. LA, unanswered questions
Laura Lamprell, Venkat Vangaveti, Derelle Young, John Orton

Continuing professional development

138 Persistent (patent) foramen ovale and diving
Peter Germonpré

140 Erratum

SPUMS notices and news

140 ANZ Hyperbaric Medicine Group Introductory Course

140 SPUMS Annual Scientific Meeting 2016 Preliminary notice

140 Certificate in Diving and Hyperbaric Medicine ANZ College of Anaesthetists

141 SPUMS Diploma in Diving and Hyperbaric Medicine

EUBS notices and news

142 41st EUBS Annual Scientific Meeting 2015

142 EUBS President's message
Costantino Balestra

142 Important message: EUBS membership dues

142 EUBS Elections

143 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@snap.com.au>