

European Journal of Underwater and Hyperbaric Medicine



CONTENTS

EUBS Newsletter, Volume 12 No 3, Autumn 2005

- Imprint & EUBS Executive Committee	Overleaf
- Welcome Address	49
- Financial Statement	50
- Instructions to Authors	Inside Back Cover

Program of the 31st Annual Scientific Meeting of the EUBS, Barcelona, Spain, 7-10 September 2005	51
--	-----------

Barcelona Meeting & Visitor Information	60
--	-----------

Abstracts of the 31st Annual Scientific Meeting of the EUBS, Barcelona, Spain	61
---	-----------

Authors Index to the 31st Annual Scientific Meeting of the EUBS, Barcelona, Spain	106
---	------------

DISCLAIMER: All opinions expressed are given in good faith and in all cases represent the views of the writer and are not necessarily representative of the policy of the EUBS.

PRINTED in Mannheim, Germany by DRUCKFORUM GmbH

PUBLISHED quarterly by the **European Underwater and Baromedical Society EUBS**
<http://www.eubs.org>

EDITOR

Dr. med. Peter HJ Mueller
c/o HBO-Zentrum
Speyerer Strasse 91-93
D-68163 Mannheim/Germany
eubs@hbo-mannheim.de

CHAIRMAN of the REVIEW BOARD: Prof. Alf O. Brubakk, NTNU, Trondheim, Norway

CIRCULATION of this issue: 750

EUBS EXECUTIVE COMMITTEE

PRESIDENT

Dr. Noemi Bitterman
Technion, Israel Institute of Technology
Technion City
Haifa 32000, Israel
Tel.: +972-4-8294909
Fax: +972-4-8246631
e-mail: noemib@tx.technion.ac.il

VICE PRESIDENT

Prof. Alf O. Brubakk
NTNU, Dept. Circulation & Imaging
N-7089 Trondheim, Norway
Tel.: +47-73-598904
Fax: +47 73-597940
e-mail: alf.o.brubakk@medisin.ntnu.no

IMMEDIATE PAST PRESIDENT

Dr. Ramiro Cali-Corleo
Hyperbaric Unit, St. Luke's Hospital
G'Mangia, Malta
Tel.: +356-21-234765
Fax: +356-21-372484
e-mail: irocali@daneurope.org

PAST PRESIDENT

Dr. Greta Bolstad
HelPro as
N-7012 Trondheim, Norway
Tel.: +47-73596899
Fax: +47-73591005
e-mail: gretabolstad@hotmail.com

SECRETARY

Dr. Joerg Schmutz
Foundation for Hyperbaric Medicine
Kleinhuningerstrasse 177
CH-4057 Basel, Switzerland
Tel.: +41-61 631306
Fax: +41-61-6313006
e-mail: joerg.schmutz@hin.ch

TREASURER & MEMBERSHIP SECRETARY

Ms. Patricia Wooding
35 Westmede
Chigwell, Essex, IG7 5LR, United Kingdom
Tel. & Fax: +44-20-85001778
e-mail: coppernob@freewire.co.uk

MEMBER AT LARGE 2004

Dr. Jacek Kot
National Center for Hyperbaric Medicine
Institute of Tropical & Maritime Medicine
Powstania Styczniowego 9B
PL-81-519 Gdynia, Poland
Tel.: +48-58-6225163
Fax: +48-58-6222789
e-mail: jkot@amg.gda.pl

MEMBER AT LARGE 2003

Dr. Costantino Balestra
Environmental & Occupational Physiology Lab.
Université Libre, 91 Avenue C. Schaller
B-1180 Bruxelles; Belgium
Tel.: +32-475-486434
e-mail: daneuben@skynet.be

MEMBER AT LARGE 2002

Dr. Adel Taher
Hyperbaric Medical Centre, P.O. Box 152
Sharm-el-Sheikh, S. Sinai, Egypt
Tel.: +20-69-660922/23
Fax: +20-69-661011
e-mail: hyper_med_center@sinainet.com.eg

JOURNAL & NEWSLETTER EDITOR

Dr. Peter HJ Mueller
HBO-Zentrum Rhein-Neckar
Diakoniekrankenhaus, Speyerer Str. 91-93
D-68163 Mannheim, Germany
Tel.: +49-621-8102 390
Fax: +49-621-8102 393
e-mail: eubs@hbo-mannheim.de

EDITORIAL

Dear EUBS members,

In the moment of reading this issue of the EUBS Newsletter, many of you will be preparing your luggage to attend the 31st Annual Congress in Barcelona, from 7 to 10 September 2005. This time we will have a Joint Meeting with the International Congress on Hyperbaric Medicine (ICHM), the oldest and the most international institution in the field. This coincidence is providing us with a programme full of unexpected events and an unusual widely international attendance.

It is said some times as a joke: "the most important part of a Congress are not papers but coffee breaks, lunches, and informal talks in the corridors". I am convinced this is not a joke, on the contrary is a pure reality. Of course, we attend meetings to receive scientific contributions and to update knowledge; this is obvious; but you can obtain this information from other fields. The EUBS offers you every time the whole Proceedings Book -what few societies actually do- and you can get all the abstracts submitted to the Conference edited in this issue of the Newsletter. All that is of great value, of course. But only those people attending the Meeting will have the opportunity of seeing the slides, discussing topics with the authors of the papers, projecting some collaborating new research with colleagues from other countries, or simply discussing the panorama of hyperbaric medicine with colleagues from the other side of the world and delegates coming from the 5 continents.

This year we are having a really widely International Conference. More than 250 delegates are already registered in the moment of writing this Editorial. We will have not only the opportunity, as every year, of meeting our colleagues coming from almost all European Countries, but the audience will be enriched this time with the presence of colleagues from other countries not frequently attending EUBS meetings, like China, Singapore, India, Brazil, Argentina, among the almost usual representation from countries like Canada, USA, or Japan.

Please take a look over the abstracts included in this issue that will be used as a hand-programme and abstract-booklet during the Conference. We had the initial plane of having 5 Invited Speakers (one from any continent), 46 oral communications, and 64 Posters. We received up to 148 Abstracts, so the Scientific Committee had a hard work of selecting papers, being arithmetically forced to reject at least 38 papers; a really unpleasant task, specially bearing in mind the high average quality of the majority of the papers. While the time dedicated to

Oral Communications is simply impossible to be enhanced in an only three days meeting, and we absolutely refused the idea of having simultaneous sessions, we decided to enlarge the Poster exhibiting area, being finally able to accept 30 posters more. So about a 100 papers will be finally exposed.

Following the EUBS tradition, a whole PROCEEDINGS BOOK will be distributed among the attendants of the meeting, as a result of the clear decision of our Executive Committee of offering a collectable book, in a determined format and layout, that will provide us with a valuable remember of all Annual Meetings of this prestigious society. Do not forget that this is possible every year thanks to a very, very great effort of all organizing committees, of compiling the full papers time enough in advance of being able to print such a book, generally at the middle of summer, what is not easy, you can believe me. The great value of the EUBS collection justifies this effort and we are convinced it will be a good help to minimize the multilingual barrier implicit in a widely international meeting like this. As every year, those not attending the Conference will have the chance to buy separately the Proceedings Book after the Conference.

This year the Abstracts of the papers accepted both for oral communication or for Posters are accessible as well through the Website of the Conference (<http://www.barcelona-2005.com>). This domain will remain open at least during six month after the conference, when it will be closed in order to avoid interferences with the next EUBS Annual 2006 Meeting in Bergen. After that, the Abstracts will be still available in the Websites of the ICHM (<http://www.ichm.net/>) and of the organizers of the conference (<http://www.CCCMH.com>).

These are our plans and the current features. We have been working for years in order of not disappointing you. However we rely on your comprehension and understanding to excuse some errors or mistakes we can have committed.

Welcome to Barcelona !

Welcome to Catalonia !

Welcome to Spain !

Welcome to the Mediterranean !

Welcome to Europe !

Welcome to the Joint Meeting of EUBS and ICHM in Barcelona 2005 !

Jordi Desola
Secretary General

EUBS FINANCIAL STATEMENT 2004

FINANCIAL STATEMENT 1st JANUARY 2004 TO 31st DECEMBER 2004 - Sterling Account

Bank Balance as at 1st January 2004 £ 5.805,46

Income

Membership Fees	£ 7.900,23	
Bank Interest	£ -	
Journal Advertising	£ 700,00	
Extra copies of journal purchased Sept 04	<u>£ 631,12</u>	
	<u>£ 9.231,35</u>	£ 9.231,35

Expenditure

Secretarial Fees	£ 850,00	(Includes £300 owed to Angela - 2003)	
Cardnet/Bank Charges	£ 429,99		
Petty Cash for Postage/ Stationery/Copying	£ 600,00	(Includes s.a.e. and postage for ballot)	
Telephone/Fax/Sundries	£ 35,08		
Proceedings Costs (Not paid 2003)	£ 232,16		
Leaving present Angela Randall	£ 100,00		
Web Site Charges- 2002-2004	£ 522,87		
AGM 04 Presentation Gift	£ 52,45		
Travel Grant - M Chappell - Meeting 04	£ 563,45		
Travel/Hotel Expenses - Treasurer Meeting 04	£ 589,40		
Journal Expenses - Outstanding from March 03	£ 830,14		
Journal Expenses - December 03 Issue	£ 1.226,72		
Journal Expenses - March 04 Issue	£ 1.384,03		
Journal Expenses - June 04 Issue	£ 1.205,21		
Journal Expenses - September 04 Issue	<u>£ 2.259,94</u>	(Includes 400 extra copies for Corsica)	
	<u>£ 10.881,44</u>		-£ 10.881,44

Petty cash in hand £ 28,87

Bank Balance as at 31st December 2004 **Sterling Account** **£ 4.155,37**

FINANCIAL STATEMENT 1st JANUARY 2004 TO 31st DECEMBER 2004 - Euro Account

Bank Balance as at 1st January 2004 **€ -**

Income

Membership Fees	€ 1.202,05	
Bank Interest	€ -	
	<u>€ 1.202,05</u>	€ 1.202,05

Expenditure

Bank Charges	€ 16,40	
Travel Grant - M R De Bruijn - Meeting 04	<u>€ 630,50</u>	
	<u>€ 646,90</u>	-€ 646,90

Bank Balance as at 31st December 2004 **Euro Account** (Approximately = £ 380.24) **€ 555,15**

Total Balance of both accounts as at 31st December 2004 **£ 4.535,61**

A MESSAGE FROM THE TREASURER & MEMBERSHIP SECRETARIAT

EUBS Members are reminded that if they are not going to the Barcelona meeting to forward their payment and renewal form to me asap.

Many thanks, Tricia

PROGRAM OF THE 31st ANNUAL SCIENTIFIC MEETING OF THE EUBS

A Joint Meeting with the International Congress of Hyperbaric Medicine (ICHM)

**7-10 September 2005
Hotel Barceló Sants, Barcelona, Spain**

Wednesday, September 7, 2005

17:00 Registration

19:00 Welcome Reception (*informal dressing*)

Numbering always corresponds to the Session the papers are assigned, and their order in it.

Thursday, September 8, 2005

08:00 Registration

08:30 Opening Ceremony

09:00 LECTURE 1 – THE DEVELOPMENT OF DIVING MEDICINE IN EUROPE. THE ROLE OF DIVING DOCTORS
David Elliott (United Kingdom)

SCIENTIFIC SESSION 1: ENT DISORDERS / BREATH HOLD DIVING

Chair: Alain René Barthelemy (France), Antonio Salinas (Spain)

ORAL COMMUNICATIONS

- 10:00 O11** Special Paper 1. – MIDDLE EAR VENTILATORY FUNCTION AND BAROTRAUMA
Avi Shupak (Israel)
- 10:15 O12** Special Paper 2 – INNER EAR DECOMPRESSION ILLNESS
Christoph Klingmann (Germany)
- 10:30 O13** DECREASED INCIDENCE OF MIDDLE EAR BAROTRAUMA DURING HYPERBARIC OXYGEN THERAPY BY USING A SLOW-COMPRESSION TECHNIQUE
Dil Vahidova, Pilar Zein-Sanchez, Peter H.J. Mueller (United Kingdom)
- 10:45 O14** CARDIOVASCULAR RESPONSES TO APNEA DURING DYNAMIC EXERCISE AND BREATH-HOLD UNDERWATER SWIMMING
Uwe Hoffmann, Tobias Dräger (Germany)

POSTERS

- P101** INNER EAR BAROTRAUMA: A THERAPEUTIC PROPOSAL (CASE REPORT)
Marco Romagnoli, Marta Frigo, Werner Garavello, Renato Maria Gaini (Italy)
- P102** LABORATORY TEST TO ASSESS THE MUSCULAR WORK CAPACITY IN BREATH-HOLD DIVERS DURING APNOEA
Carmen Vaz, Montserrat Pavon, Jose Naranjo, Ramon A. Centeno (Spain)
- P103** SEAWATER DROWNING IN SARDINIA
Antonio Marchi, A. Orrù, E. Pusceddu, M. Musu, A. Satta, V. Marrazzo, G. Finco (Italy)

11:00 Coffee Break

SCIENTIFIC SESSION 2: HOSPITAL BASED CENTRES OF HYPERBARIC MEDICINE

Chair: Eric P. Kindwall (USA), Angel Crespo (Spain)

ORAL COMMUNICATIONS

- 11:30 O21 THE HYPERBARIC THERAPY UNIT OF CRIS. A SUMMARY OF A 50 YEARS
Jordi Desola, Joan Sala, Àngel García, Josep Bohé (Spain)
- 11:45 O22 EXPERIENCES OF NEARLY FOUR DECADES OF HYPERBARIC TREATMENT AT
LARGE SCALE
Heiko Renner, Christian Porubsky, Freyja-Maria Smolle-Juettner (Austria)
- 12:00 O23 ANAEROBIC SEPSIS AND HBOT: 30 YEARS EXPERIENCES AND RESULTS
Danica Vujnovic (Yugoslavia)
- 12:15 O24 HYPERBARIC CENTRE OF CHARITY HOSPITAL IN CARTAGENA: OVERVIEW IN A DAILY
BASIS CLINICAL PRACTICE DURING THE LAST 29 YEARS
Antonio Viqueira (Spain)
- 12:30 O25 BASIC RESEARCH AND CLINICAL HYPERBARIC MEDICINE
A. Larsson, J. Uusijarvi, B. Gustafsson, H. Saraste, F. Lind (Sweden)
- 12:45 O26 CLINICAL HYPERBARIC FACILITY ACCREDITATION: QUALITY IMPROVEMENT IN ACTION
Tom Workman (United States)

POSTERS

- P201 PRESSURE RELIEF SYSTEMS IN HYPERBARIC ENVIRONMENT
Kris Peelaers, Sven Van Poucke, Jurgen Galicia, Luc Beaucourt (Belgium)
- P202 GERMAN HEALTH CARE SYSTEM ACCEPTS AND REJECTS SOME INDICATIONS FOR
HOSPITAL BASED HBO TREATMENT FOLLOWING AN EBM-BASED HTA PROCESS
Wilhelm Welslau, Ulrich van Laak (Germany)
- P203 CRITICAL PATIENTS IN A HYPERBARIC MEDICAL CENTER. THE CRIS-UTH EXPERIENCE
J. Sala-Sanjaume, J. Desola, A. García-Sanpedro, Ll. García (Spain)
- P204 OPTIMISING INTERNAL INFORMATION EXCHANGE INSIDE HYPERBARIC TREATMENT
CENTRES
Y. Neiryneck, P. Germonpre (Belgium)
- P205 INITIAL AND CONTINUOUS EDUCATION AND TRAINING FOR HYPERBARIC PERSONNEL
*Armin Schwarz, P. Atkey, V. Campanaro, D. Damiens, R. Houman, A. Kanstinger, B. Kelner,
M. van der Tol (Germany)*
- P206 COMPARISON OF INCIDENT RATES DURING INTENSIVE CARE VERSUS NON-INTENSIVE CARE
HBO SESSIONS – A PROSPECTIVE ONE MONTH OBSERVATIONAL STUDY IN EIGHT EUROPEAN
CENTRES
*Jacek Kot, M. Hajek, R. Houman, H. Klemen, A. Kemmer, H. Kirchner, P. Longobardi, C. Mortensen,
J. Perttila (Poland)*
- P207 TREATING THE PEDIATRIC PATIENT WITH HYPERBARIC OXYGEN: A THIRTY YEAR
EXPERIENCE
George Hart (United States)
- P208 ANALYSIS OF HYPERBARIC OXYGEN THERAPY FOR CRITICAL CARE AND EMERGENCY
SAVING IN 1334 CASES
Zhou Shurong (China)

13:00 **Lunch Time**13:00 **EUBS Executive Committee Lunch-Meeting**

- 14:30 LECTURE 2 – PAST AND PRESENT USE OF HYPERBARIC OXYGEN IN ACUTE MYOCARDIAL
ISCHEMIA: A REVIEW
George Hart (United States)

SCIENTIFIC SESSION 3: DIVING RESEARCH

Chair: Alf Brubakk (Norway), J.M. Viqueira (Spain)

ORAL COMMUNICATIONS

- 15:30 O31 EFFECT OF NITRIC OXIDE ON CIRCULATING BUBBLES AFTER SIMULATED SUBMARINE
ESCAPE
Mikael Gennser, Lesley Blogg (Sweden)
- 15:45 O32 RECOMPRESSION DURING DECOMPRESSION REDUCE BUBBLE FORMATION IN THE
PIG: FURTHER SUPPORT FOR A GAS PHASE MODEL OF DECOMPRESSION
Andreas Møllerlækken, C. Gutvik, V. Berge, A. Jørgensen, A. Løset, A.O. Brubakk (Norway)

- 16:00 O33 REVERSAL EFFECT OF NMDA ON THE DECREASED STRIATAL DOPAMINE RELEASE PRODUCED BY NITROGEN NARCOSIS IN RATS
Cécile Lavoute, Michel Weiss, Jean-Claude Rostain (France)
- 16:15 O34 EVALUATION OF DECOMPRESSION TABLES WITH DOPPLER TECHNIQUE IN COMPRESSED AIR TUNNELING IN THE NETHERLANDS.
Jurjen Breedijk, Ben van der Putten, Louis Schrier, Wouter Sterk (Netherlands)

POSTERS

- P301 A DEMAND CONTROLLED SELF MIXING MECHANICAL CONSTANT PO₂ REBREATHING; A NEW CONCEPT AND INITIAL TESTING
Oskar Frånberg, R. Wigert, N. Larsson, R. Lundkvist, B. Johannesson, M. Gennser (Sweden)
- P302 EFFECTS OF BEARD GROWTH ON PURGE FREQUENCY WITH THE MBS-2000 CLOSED-CIRCUIT OXYGEN REBREATHING
David Fothergill (United States)
- P303 FLOW MEASURING DIVING COMPUTER FOR SEMI CLOSED REBREATHING
Arne Sieber (Austria)
- P304 PRESSURE LIMITATION FOR GAS MICRONUCLEI ELIMINATION BY HYPERBARIC OXYGEN IN THE PRAWN
Yehuda Arieli, Ksenya Katsenelson, Ran Arieli (Israel)
- P305 RECOMPRESSION WITH OXYGEN TO 160 kPa ELIMINATES VASCULAR GAS BUBBLES IN THE PULMONARY ARTERY, BUT DOES NOT PREVENT INJURY TO THE ENDOTHELIUM AND THE CNS
Andreas Møllerlækken, Wenche Hovin, Vibeke Nossum, Mikael Gennser, Alf Brubakk (Norway)
- P306 EFFECTS OF HYPERBARIC OXYGEN ON SPINAL EVOKED POTENTIAL IN RABBITS WITH EXPERIMENTAL DECOMPRESSION SICKNESS
Guangkai Gao (China)
- P307 COGNITIVE RESPONSE AND PSYCHOLOGICAL PROFILE DURING 24 H SCUBA DIVING TEST
Gerardo Bosco, N. D'Alessandro, V. Zanon, A. Landolfi, R. Bedini, P. Data (Italy)
- P308 THE USE OF A DEEP STOP DURING DECOMPRESSION OF AGAR GEL PLATES INFLUENCES NUMBER, DIAMETER AND TOTAL GAS VOLUME OF POST DECOMPRESSION GAS BUBBLES
Alessandro Marroni, P. Bennett, F. Cronjé, C. Balestra, P. Longobardi, R. Cali Corleo, P. Germonpre, M. Pieri, M. Didone (Italy)
- P309 A MULTIPLE GAS CREVICE MODEL OF BUBBLE GROWTH
Michael Chappell, Stephen Payne (United Kingdom)
- P310 THE EFFECTS OF EXPERT ERROR ON THE ACCURACY OF AUTOMATED BUBBLE CLASSIFIERS
Stephen Payne, Michael Chappell (Israel)
- P311 SONAR ACTIVITY MAY DISRUPT BEHAVIORAL PERFORMANCE IN DEEP DIVING CETACEANS
Adolfo Talpalar, Yoram Grossman (Poland)
- P312 COMPUTERISED ULTRASONIC DETECTION OF AIR EMBOLISM
S.M. Egi, K. Tufan, A. Ademoglu, S. Aydin, E. Kurtaran (United States)
- P313 MACROSCOPIC INDICES AND MICROSTEREOLOGICAL STUDIES OF THE EFFECT OF TREATMENT WITH AIR RECOMPRESSION-DECOMPRESSION ON THE HEART CHANGES AFTER EXPERIMENTAL PULMONARY BAROTRAUMA
Wojciech Kozłowski, Piotr Siermontowski, Robert Koktycz, Romuald Olszanski (Poland)

16:30 **Coffee Break**

SCIENTIFIC SESSION 4: BASIC RESEARCH - OXYGEN TOXICITY

Chair: Mahito Kawashima (Japan), Francisco Ríos (Spain)

ORAL COMMUNICATIONS

- 17:00 O41 SYMPTOMS OF CNS OXYGEN TOXICITY IN CLOSED-CIRCUIT OXYGEN DIVING
Ran Arieli, Yochai Adir (Israel)
- 17:15 O42 BUBBLES FORMATION IN AGAR AND SURFACTANT MIXTURE DURING HYPERBARIC EXPOSURE
Pasquale Longobardi, Costantino Balestra, Maurizio Didonè, Piergiorgio Data (Italy)
- 17:30 O43 EXTREME HYPEROXIA AND SEVERE ENDURANCE TRAINING SHOW DIFFERENT PATTERNS OF OXIDATIVE STRESS
Andreas Koch, N. Bader, K. Ohlmann, W. Kähler, H-L. Torff, M. Mályusz (Germany)
- 17:45 O44 NEURONAL AND ENDOTHELIAL NITRIC OXIDE ARE INVOLVED IN HYPERBARIC PULMONARY OXYGEN TOXICITY
Dmitriy Atochin, Ivan Demchenko, Paul Huang, Claude Piantadosi (United States)

POSTERS

P401 LYMPHOCYTE ADAPTATIONS TO OXIDATIVE STRESS INDUCED BY SCUBA DIVING
Joan M. Batle, M. Ferrer, A. Sureda, P. Romaguera, P. Tauler, J.A. Tur, A. Pons (Spain)

18:00 Special Lecture – UNDERWATER ACTIVITIES IN SPAIN: A VERY OLD HISTORY.
Frederic Malagelada (Spain)

20:00 **Reception at the Maritim Museum**

Friday, September 9, 2005

SCIENTIFIC SESSION 5: HYPERBARIC OXYGEN THERAPY - I

Chair: Frans J. Cronjée (South Africa), Joan Sala (Spain)

ORAL COMMUNICATIONS

- 09:00 O51 HYPERBARIC OXIGEN THERAPY IN MAXILLOFACIAL SURGERY OVER IRRADIATED TISSUE. A RETROSPECTIVE STUDY OF 42 CASES
Mario Mateos Micas, Javier Rodríguez, Gabriel Forteza, Jordi Desola (Spain)
- 09:15 O52 HYPEROXIC HYPERBARIC PRECONDITIONING INDUCES NEUROPROTECTION AND ATTENUATES THE SYSTEMIC INFLAMMATORY RESPONSE IN A HUMAN MODEL OF ISCHEMIC REPERFUSION INJURY
Joseph Alex, J. Z. Yogartnam, G. Laden, A. R.J. Cale, S. Bennett, L. Guvendik, P. T. McCollum, S. C. Griffin (United Kingdom)
- 09:30 O53 HYPERBARIC OXYGEN THERAPY (HBOT) FOR REFRACTORY CHRONIC OSTEOMYELITIS, ACCORDING TO EVIDENCE BASED MEDICINE
Laura Vernotico, Pasquale Longobardi (Italy)
- 10:00 O54 HYPERBARIC OXYGEN THERAPY FOR CRUSH INJURIES OF THE EXTREMITIES - EXPERIENCE OF BELGRADE CHM INSTITUTE
Dusko Micevic, Tomislav Jovanovic, Marko Bumbasirevic, Svetomir Savic (Yugoslavia)
- 10:15 O55 HYPERBARIC OXYGEN THERAPY IN THE TREATMENT OF CHRONIC ARTERIOPATHIC DISEASE
Carlo Luongo, R. Guarino, L. Monastera, C. Cipollaro, L. Mascolo, M. Luongo (Italy)
- 10:30 O56 ALPHA-LIPOIC ACID SUPPLEMENTATION INHIBITS OXIDATIVE DAMAGE ACCELERATING CHRONIC WOUND HEALING IN PATIENTS UNDERGOING HYPERBARIC OXYGEN THERAPY
Renata Alleva, Emanuele Nasole, Ferruccio Di Donato, Marco Tomasetti (Italy)

POSTERS

- P501 BRAIN HIPPOCAMPUS CELLULAR APOPTOSIS AND EXPRESSION OF BCL-2, BAX, CASPASE3 PROTEINS FOLLOWING ACUTE CARBON MONOXIDE POISONING
FuJia Liu, ChunJin Gao, ChengQing Xia, HongYing Zhao, Man Qi (China)
- P502 EFFECT OF HYPERBARIC OXYGEN ON PLATELET MEMBRANE GLYCOPROTEIN CD31, CD61 AND CD62P IN MICE AFTER ACUTE CARBON MONOXIDE POISONING
Yi Zhang, Chunjin Gao, Guozhong Wang, Huan Ge (China)
- P503 HYPERBARIC OXYGEN FOR TREATMENT OF CARBON MONOXIDE POISONING: OUR EXPERIENCE FROM LAST DECADE (1995-2004)
Michal Hajek (Czech Republic)
- P504 MORTALITY AND MORBIDITY FROM CARBON MONOXIDE INTOXICATION IN LATVIA DURING 2002-2004 AND THE EFFECTIVENESS OF HBO TREATMENT AT 182.4-202.7 kPa FOR 60 MINUTES
Ilan Lisagor, A. Sondore, V. Volkson, V. Trushus, V. Cera, V. Saksons, I. Jagmane (Latvia)
- P505 CARBON MONOXIDE POISONING IN CATALONIA. CONTROVERSIES IN SPITE OF EXCELLENT RESULTS WITH HBO IN 2610 CASES
J. Desola, J. Sala, Ll. Garcia, A. Garcia, M. Massip, J.A. Oliva (Spain)
- P506 NECROTIZING FASCIITIS DUE TO INVASIVE PHYCOMYCETES: THE ROLE OF ADJUVANT HYPERBARIC OXYGEN THERAPY
Frederick Cramer (United States)
- P507 EARLY HBO THERAPY IN ACUTE GLOBAL AND FOCAL CEREBRAL ISCHEMIA AFTER VASCULAR SURGERY: REPORT OF TWO CASES
Beatrice Ratzenhofer, M. Hessinger, A. Keusch-Preininger, C. Paulus, K. Tiesenhausen, F. Smolle-Jüttner (Austria)

P508 THE INFLUENCE OF HBO TO SOLUBLE ADHESION MOLECULE OF CEREBRAL ISCHEMIA REPERFUSION RAT

Lin Yang, Chunjin Gao, Guozhong Wang, Huan Ge (China)

P509 EFFECTS OF HYPERBARIC OXYGEN ON GENE EXPRESSION OF CEREBRAL TISSUE IN MICE AFTER CEREBRAL ISCHEMIA-REPERFUSION INJURY

Chunjin Gao, Lichun Zhou, Guozhong Wang, Yongjun Wang (China)

10:30 Coffee Break

SCIENTIFIC SESSION 6: DIVING PHYSIOLOGY

Chair: Hans Ornhagen (Sweden), Emilio Salas (Spain)

ORAL COMMUNICATIONS

11:00 O61 VARIATION OF FLOW MEDIATED DILATION AFTER MAXIMAL CYCLOERGOMETRIC EFFORT IN HEALTHY HUMANS

Mikel Ezquer, C. Balestra, P. Germonpré, T. Snoek, M. Bourgeois, A. Marroni, (Belgium)

11:15 O62 THE STUDY OF THE SEASHORE DIVING PHASE AND DESIGN OF DIVING EQUIPMENT CARRYING SOLUTIONS

Noemi Bitterman, Erez Ofir (Israel)

11:30 O63 NO EFFECT OF WARM (35-40°C) BREATHING GAS ON SHIVERING THERMOGENESIS DURING COLD (16°C) WATER IMMERSION

Arvid Hope, Gunnar Knudsen, Harald Sundland, Svein Bjordal (Norway)

11:45 O64 BIDIMENSIONAL ECHOCARDIOGRAPHY AFTER RECREATIONAL DIVING: A PRELIMINARY STUDY

Salvador Fojon, José Sánchez-Andrade, Guillermo Aldama (Spain)

POSTERS

P601 RESPIRATORY PARAMETERS AND BODY FAT PERCENTAGE IN DIFFERENT GROUPS OF DIVING AND NON-DIVING POPULATION

Milica Sinobad, Marija Markovic (Yugoslavia)

P602 CHANGES IN PULMONARY FUNCTION AFTER TWO MONTHS PERIOD OF INTENSIVE SPORT DIVING

Dragana Ivkovic, Predrag Rebic, Vesna Bosnjak Petrovic, Bozica Suzic Todorovic (Yugoslavia)

P603 SPECIFIC PERFORMANCE TESTS FOR DIVING

Tobias Dräger, Uwe Hoffmann (Germany)

P604 SELF REPORTED HEALTH AMONG FORMER NORTH SEA DIVERS

Å. Irgens, M. Grønning, K. Troland, E. Sundal, F. Goplen, S. Nordahl, H. Nyland, E. Thorsen (Norway)

P605 PROLONGED TOTAL BODY IMMERSION IN COLD WATER EXPERIMENTATION

C. Robinet, F.M. Galland, M. Hugon, A. Boussuges, A.V. Destruelle, Y. Jammes, D. Leiffen, B. Melin, J. Regnard (France)

P606 HYPOXIA - A TRIGGER FOR SPLEEN CONTRACTION?

Matt Richardson, Robert de Bruijn, Erika Schagatay (Sweden)

P607 DIVING WITH DIABETES IN FRANCE: NEW REGULATIONS, SELECTION RULES AND BLOOD GLUCOSE BASED IMMERSION PROCEDURES

Alexis Tabah, B. Lormeau, L. Dufaitre, N. Marmion, R. Bresson, O. Thurninger, A. Sola, B. Grandjean (France)

P608 DOES MAJOR THORACIC SURGERY REALLY AFFECT THE DIVERS FITNESS? AN ANALYSIS OF A DIVING CHECK OF SUCH A PATIENT

Heiko Renner, Alexej Pokorny (Austria)

P609 THE CHANGES OF THE HUMAN PHYSIOLOGIC FUNCTIONS IN THE 150M HELIOX SATURATION-182M EXCURSION DIVING IN THE OPEN SEA

Yiqun Fang, W. Xiao, H. Zhang, M. Hu, R. Chen, F. Yu, J. Xu, L. Pan, Z. Zhang (China)

P610 USE OF CONCENTRATION-CONTROLLABLE NITROX GAS GENERATOR FOR UNDERWATER CONSTRUCTION DIVING

Tohru Mochizuki, T. Ikeda, K. Kobayashi, M. Nodera, Y. Gotoh, H. Yanagisawa (Japan)

12:15 BOEREMA LECTURE – THE GRANDFATHER OF HYPERBARIC MEDICINE AND ME!

Allison Boerema-Forde (Australia)

13:00 Lunch Time

13:00 ICHM Governors Lunch (upon invitation)

- 14:30 LECTURE 3 – HYPERBARIC MEDICINE PRACTICE IN CHINA: PRESENT AND FUTURE PROPECTIVES & DEVELOPMENT
Chunjin Gao (China)

SCIENTIFIC SESSION 7: PATHOPHYSIOLOGY OF DYSBARIC INJURIES

Chair: Peter Mueller (Germany), Manuel Salvador (Spain)

ORAL COMMUNICATIONS

- 15:30 O71 DIVERS AND PLATELETS: THE PATHOPHYSIOLOGY OF DECOMPRESSION
Frederick Cramer (United States)
- 15:45 O72 LUNG SQUEEZE IN SCUBA DIVING: AN UNDERESTIMATED TROUBLE
Marco Brauzzi, Giovanni Sbrana, Paolo Tanasi, Laura De Fina (Italy)
- 16:00 O73 A 2-HOURS PRE-DIVE AEROBIC EXERCISE DECREASES BUBBLE FORMATION AFTER DIVING
J.E. Blatteau, E. Gempp, J.M. Pontier, C. Robinet, F.M. Galland (France)
- 16:15 O74 THE COMBINATION OF DECOMPRESSION-SICKNESS PLUS INTRAHORACIC HYPERPRESSIVE SYNDROME PLUS NEAR DROWNING ("THE DIVING TRAGEDY").
Jordi Desola, Joan Sala (Spain)

POSTERS

- P701 DIVING RELATED INJURIES TREATED IN ANTWERP FROM 2000 UNTILL 2005: RELATION BETWEEN DIVING RELATED INJURIES AND IN WATER SKILLS DURING DIVE TRAINING
Jurgen Galicia, Sven Van Poucke, Kris Peelaers, Luc Beaucourt (Belgium)
- P702 RETROSPECTIVE STUDY ON DISBARIC DISORDES (DCI) IN SARDINIA
Paolo Castaldi, G. Mura, C. Iesu, S. Basciu, A. Valdes, S. Mancosu, A. Masu, C. Randaccio (Italy)
- P703 DECOMPRESSION ILLNESS AND ENZYMES. A RETROSPECTIVE STUDY IN SPORT DIVERS
Aldo Lozano, Gisele Coutin-Marie, Willma Padilla, Victor Morales (Mexico)
- P704 PFO AND SERIOUS DECOMPRESSION ILLNESS. A CASE REPORT
Aldo Lozano-Valdes (Iceland)
- P705 DECOMPRESSION ILLNESS WITH ENTRAPMENT NEUROPATHY
Seiichi Togawa, Nobuo Yamami, Harumi Nakayama, Yoshihiro Mano, Masaharu Shibayama (Japan)
- P706 PREVALENCE OF EXOSTOSES AMONG DIVERS OF THE BAY OF BISCAY
Juan Videgain (Spain)
- P707 HBO-THERAPY OF AN UNCLEAR DIVING ACCIDENT - SUSPICIOUS FOR A SEVERE HYPOXIC BRAIN INJURY - A CASE REPORT
Karin Endermann, Armin Kemmer (Germany)
- P708 DETERMINATION OF NEUROLOGICAL SEQUELAE BY DISBARIC ACCIDENTS IN A GROUP OF DIVERS OF CHILOE, CHILE
Jorge Calderón (Chile)
- P709 DYSBARIC OSTEONECROSIS IN COMPRESSED AIR WORKERS
Mahito Kawashima (Japan)
- P710 DYSBARIC OSTEONECROSIS OF HUMERAL HEAD DISTURBS SHOULDER JOINT
Makoto Sasaki, Mahito Kawashima (Japan)
- P711 OCCUPATIONAL MEDICAL PROVISIONS IN EUROPEAN COMPRESSED AIR WORK (CAW) REGULATIONS – A CRITICAL REVIEW
Karl-Peter Faesecke (Germany)
- P712 REGIONAL HELICOPTER FOR EMERGENCY MEDICAL SERVICE (HEMS): FIRST AID FOR DIVING CASUALTIES FROM 2002 TO 2004
Giovanni Sbrana, Marco Brauzzi, Paolo Tanasi, Laura De Fina (Italy)
- P713 IS IT WORTH TAKING THE RISK FOR DIVING AT AN EXOTIC DIVING SPOT?
Heiko Renner (Austria)

16:30 Coffee Break

SCIENTIFIC SESSION 8: HYPERBARIC OXYGEN THERAPY - II

Chair: Monica Rocco (Italy), Joan M. Batle (Spain)

ORAL COMMUNICATIONS

- 17:00 O81 NEW STRATEGIES FOR CANCER TREATMENTS USING HYPERBARIC OXYGENATION: RADIOTHERAPY, CHEMOTHERAPY AND TREATMENT FOR BRAIN RADIONECROSIS
Kiyotaka Kohshi (Japan)

- 17:15 O82 NEUROPROTECTIVE ANTI-APOPTOSIS EFFECT OF HYPERBARIC OXYGEN TREATMENT IN SECONDARY BRAIN DAMAGE
Eilam Palzur, Eugene Vlodavsky, Ran Arieli, Jean F Soustiel (Israel)
- 17:30 O83 HYPERBARIC OXYGEN THERAPY AS AN AUXILIARY TREATMENT IN VIRAL HEMORRHAGIC CYSTITIS AFTER BONE-MARROW TRANSPLANTATION
Anelise Fonseca, I. Alves, M. Kohr, M. Soares, M. Knibel, J. Silva (Brazil)
- 17:45 O84 HYPERBARIC OXYGEN THERAPY IN LEPRO REACTIONS
Patrick Desylva, Jandhyala Sridhar, John M (India)

POSTERS

- P801 HBO2 TREATMENT DURING ISCHEMIA: ALLEVIATES BRAIN INJURY AND REDUCES STRIATAL HYDROXYL-FREE RADICALS FORMATION AND GLUTAMATE RELEASE
Gerardo Bosco, Z. Yang, X. Yan, V. Zanon, B. Lettieri, C. Luongo, E. M. Camporesi (Italy)
- P802 A STUDY OF MULTIFARIOUS FACTORS ON TREATMENT OF HYPERBARIC OXYGEN IN PATIENTS WITH TRAUMATIC BRAIN INJURY AND INTRACRANICAL HEMORRHAGE
Huan Ge, Chunjin Gao (China)
- P803 EFFECT OF HYPERBARIC OXYGENATION ON BRAIN HEMODYNAMIC AND MITOCHONDRIAL ACTIVITY IN VIVO
Elhanan Meirovithz, Judith Sonn, Gennady Rogatsky, Avraham Mayevsky (Israel)
- P804 HYPERBARIC OXYGEN THERAPY REDUCES NEUROINFLAMMATION AND EXPRESSION OF MATRIX METALLOPROTEINASE-9 IN THE RAT MODEL OF TRAUMATIC BRAIN INJURY
Eilam Palzur, Eugene Vlodavsky, Jean F Soustiel (Israel)
- P805 IMPLICATIONS OF HYPERBARIC OXYGEN THERAPY ON PERIPHERAL-TYPE BENZODIAZEPINE RECEPTORS IN TRAUMATIC BRAIN INJURY
Eilam Palzur, Eugene Vlodavsky, Jean F Soustiel (Israel)
- P806 A STUDY PROTOCOL FOR THE HBO TREATMENT IN SEVERE HEAD INJURY PATIENT
Jasenska Candrljic, Ines Takac, Robert Saffic, Kresimir Candrljic, Slavica Kvolik (Croatia)
- P807 EFFECT OF HYPERBARIC OXYGEN ON EXPRESSION OF INDUCIBLE NITRIC OXIDE SYNTHASE MRNA IN HIPPOCAMPUS AFTER CEREBRAL ISCHEMIA-REPERFUSION IN RATS
Guozhong Wang, Chunjin Gao, Huan Ge, Rui Chen (China)
- P808 EFFECTS OF HYPERBARIC OXYGEN ON THE EXPRESSION OF PLATELET MEMBRANE GLYCOPROTEIN- CD31, CD61 AND CD62P IN RATS AFTER ACUTE HIND LIMB ISCHEMIA-REPERFUSION
Liming Zhao, B. Yuan, C. Gao, G. Wang, H. Ge, C. Xia, M. Qi (China)
- P809 COMBINED TREATMENT OF ACUPUNCTURE, STEROID, AND HYPERBARIC OXYGEN FOR SUDDEN DEAFNESS: A CLINICAL EXPERIENCE OF 32 CASES
Chang-Kuang Lee, H.-C. Lee, L.-P. Chang, S.-T. Lu, S.-Y. Yu, Y.-L. Huang (Taiwan)
- P810 HBO IN HEARING LOSS ACCOMPANIED BY TINNITUS
Christoph Lipp, P. Stiegler, C. Walch, A. Kontaxis, V. Matzi, H. Klemen, F. Smolle-Jüttner (Austria)
- P811 ESCHERICHIA COLI GROWTH INHIBITION BY HYPERBARIC HYPEROXIA
Joaquim Silva, A. Fonseca, R. Figueiredo, D. Mourão, M. Soares, I. Alves, M. Kohr, M. Knibel, M. Bozza (Brazil)
- P812 RECURRENT EXTERNAL BACTERIAL OTITIS: RISK FACTORS, PREVENTION AND THERAPY
Marco Romagnoli, Marta Frigo, Lorenza Sordo, Renato Maria Gaini (Italy)
- P813 USEFULNESS OF HBO THERAPY IN RESTENOSIS AFTER CORONARY STENTING
Ljiljana Mihaljevic, Slobodan Mihaljevic, Ivan Juric, Kruno Sporicic (Croatia)
- P814 HYPERBARIC OXYGEN THERAPY AND CROHNS DISEASE
Kurt Johnson, Mitchell Hoggard, Donald Shirachi (United States)
- P815 ROLE OF HBO2 IN HIGH VOLTAGE ELECTRICAL BURNS
V. Vázquez, E.C. Sánchez, A. Chávez, R. Uribe, J. Albornoz (Mexico)
- 18:00 Special Lecture – THE AESTHETIC, THE SYMBOLS AND THE MESSAGE OF GAUDÍ
Eliseu Oriol (Spain)

20:30 Banquet

Saturday, September 10, 2005

- 08:30 LECTURE 4 – HYPERBARIC MEDICINE AND THE COCHRANE COLLABORATION: HOPE OR DESPAIR?
Mike Bennet (Australia)

SCIENTIFIC SESSION 9: HYPERBARIC OXYGEN THERAPY - III**Chair: E. Cuauhtemoc Sánchez (Mexico), Angel García (Spain)****ORAL COMMUNICATIONS**

- 09:30 O91 EFFECTS OF HYPERBARIC OXYGEN THERAPY IN CHILDREN WITH CEREBRAL
S. S. Mathai, P. Bansali, B. S. Gill, M.J. John, S. Nagpal, H. Aggrawal, V. Bhatt, V. Verma (India)
- 09:45 O92 EFFECTS OF HYPERBARIC OXYGEN (HBO) ON GLOMERULAR FILTRATION RATE (GFR) AND ENDOTHELIAL DEPENDANT RENAL VASORELAXATION, IN RATS WITH ISCHEMIC ACUTE RENAL FAILURE (ARF).
Irit Rubinstein, Zaid Abassi, Joseph Winaver, Ellena Ovcharenko, Ori Better (Israel)
- 10:00 O93 BLEOMYCIN EXPOSURE AND HYPERBARIC OXYGEN THERAPY: A CASE SERIES
Klaus Torp, Michael Ott, Martha S. Carraway, Richard Moon, Claude Piantadosi (United States)
- 10:15 O94 HBO IN PATIENTS WITH TINNITUS - INFLUENCE OF PSYCHOLOGICAL FACTORS?
Christian Porubsky (Austria)
- 10:30 O95 IN VITRO FERTILIZATION (IVF) AND HBO THERAPY
A. Mitrovic, P. Brkic, T. Jovanovic, B. Nikolic, O. Zarich (Yugoslavia)
- 10:45 O96 LIVER PRESERVATION USING HYPERBARIC OXIGENATED PERFUSION
P.Longobardi, M. Rubbini (Italy)

POSTERS

- P901 RESUSCITATION FROM EXPERIMENTAL HEATSTROKE BY HYPERBARIC OXYGEN THERAPY
Ko-Chi Niu, Chunjin Gao, Mao-Tsun Lin (Taiwan)
- P902 EFFECTS OF HYPERBARIC OXYGEN THERAPY ON THE EXPRESSION OF PLATELET MEMBRANE GLYCOPROTEINS IN PATIENTS WITH ISCHEMIC STROKE
Chunjin Gao, J. Zhang, L. Zhao, G. Wang, C. Xia, H. Ge, S. Niu, M. Qi, L. Yang, Y. Gao (China)
- P903 THE IMPROVEMENT OF SPEECH AND LANGUAGE DEFICITS IN 3 APHASIC STROKE PATIENTS BY HBO THERAPY: A PRELIMINARY STUDY
Donald Shirachi, Mitchell Hoggard, Kurt Johnson (United States)
- P904 HYPERBARIC OXYGEN THERAPY AND SCLEROSING PANNICULITIS: A CASE PRESENTATION
Mitchell Hoggard, Donald Shirachi, Kurt Johnson (United States)
- P905 EFFECTS OF HYPERBARIC AIR EXPOSURE ON THE FUNCTION OF MOUSE PERITONEAL MACROPHAGES
Hengyi Tao, Haisheng Wu, Weigang Xu (China)
- P906 EFFECTS OF THE EXPOSURE TO HYPERBARIC OXYGEN THERAPY IN DIFFERENT EXPERIMENTAL MODELS OF ABDOMINAL SEPSIS
J. Duarte, M. Leite, I. Alves, M. Korn, M. Knibel, A. Fonseca, D. Mourão, R. Figueredo, F. Bozza (Brazil)
- P907 HYPERBARIC OXYGEN THERAPY REDUCES SEVERITY AND IMPROVES SURVIVAL IN ACUTE SEVERE PANCREATITIS
Ian Millar, M. Nikfarjam, C. Cuthbertson, K. Su, C. Malcontent-Wilson, C. Christophi (Australia)
- P908 THE EFFECT OF HYPERBARIC OXYGEN TREATMENT ON SURVIVAL DURING THE EARLY PHASE OF SEVERE BLUNT CHEST AND HEAD TRAUMA (A CLINICAL-EXPERIMENTAL STUDY)
Gennady Rogatsky, Avraham Mayevsky (Israel)
- P909 EFFECTS OF HYPERBARIC OXYGENATION AND HIGH FREQUENCY ELECTROMAGNETIC FIELDS IN OSGOOD SCHLATTER DISEASE
Bozica Suzic Todorovic, Dragana Ivkovic (Yugoslavia)
- P910 HIV POSITIVE - HYPERBARIC OXYGENATION - DOES IT HAVE PLACE HERE
Dusko Micevic, Bozica Todorovic-Suzic, Branka Cantrak-Micevic (Yugoslavia)
- P911 HYPERBARIC OXYGEN THERAPY AND MAMMARY PROSTHESES
Michiel van der Huls, Onno Boonstra, Wouter Sterk (Netherlands)
- P912 VALIDATION OF PYRAMID PROJECTION – A METHOD OF DEFECT VOLUME MEASUREMENT
Jiri Ruzicka, Pavel Novy, Pavel Vavra, Jiri Benes, Lukas Bolek (Czech Republic)
- P913 IMPROVEMENT OF SPERM QUALITY WITH MILD HYPERBARIC OXYGEN THERAPY [mHBO] A PILOT STUDY
Gunnar Heuser, Sylvia Heuser (United States)
- P914 THE EFFECTS OF HYPERBARIC OXYGEN TREATMENT ON THE EXPERIMENTAL ATHEROSCLEROSIS
Tomislav Jovanovic, P. Brkic, Ana Mitrovic, Olga Zaric (Yugoslavia)

11:00 Coffee Break**11:30 EUBS Annual General Assembly**

SCIENTIFIC SESSION 10: POSTERS DISCUSSION**Chair: Phil Bryson (United Kingdom), Ubaldo Sánchez (Spain)**

- 12:00 P202 GERMAN HEALTH CARE SYSTEM ACCEPTS AND REJECTS SOME INDICATIONS FOR HOSPITAL BASED HBO TREATMENT FOLLOWING AN EBM-BASED HTA PROCESS. Wilhelm Welslau, Ulrich van Laak (Germany)
- 12:05 P203 CRITICAL PATIENTS IN A HYPERBARIC MEDICAL CENTER. THE CRIS-UTH EXPERIENCE. J. Sala-Sanjaume, J. Desola, A. García-Sanpedro, Ll. García (Spain)
- 12:10 P207 TREATING THE PEDIATRIC PATIENT WITH HYPERBARIC OXYGEN: A THIRTY YEAR EXPERIENCE. George Hart (United States)
- 12:15 P208 ANALYSIS OF HYPERBARIC OXYGEN THERAPY FOR CRITICAL CARE AND EMERGENCY SAVING IN 1334 CASES. Zhou Shu-rong (China)
- 12:20 P301 A DEMAND CONTROLLED SELF MIXING MECHANICAL CONSTANT PO₂ REBREATHING; A NEW CONCEPT AND INITIAL TESTING. Oskar Frånberg, R. Wigert, N. Larsson, R. Lundkvist, B. Johannesson, M. Gennser (Sweden).
- 12:25 P305 RECOMPRESSION WITH OXYGEN TO 160 kPa ELIMINATES VASCULAR GAS BUBBLES IN THE PULMONARY ARTERY, BUT DOES NOT PREVENT INJURY TO THE ENDOTHELIUM AND THE CNS. Andreas Møllerlækken, Wenche Hovin, Vibeke Nossum, Mikael Gennser, Alf Brubakk (Norway)
- 12:30 P308 THE USE OF A DEEP STOP DURING DECOMPRESSION OF AGAR GEL PLATES INFLUENCES THE NUMBER, DIAMETER AND TOTAL GAS VOLUME OF POST DECOMPRESSION GAS BUBBLES. Alessandro Marroni, P. Bennett, F. Cronjè, C. Balestra, P. Longobardi, R. Cali Corleo, P. Germonpre, M. Pieri, M. Didone (Italy)
- 12:35 P312 COMPUTERISED ULTRASONIC DETECTION OF AIR EMBOLISM. S.M. Egi, K. Tufan, A. Ademoglu, S. Aydin, E. Kurtaran (United States)
- 12:40 P602 CHANGES IN PULMONARY FUNCTION AFTER TWO MONTHS PERIOD OF INTENSIVE SPORT DIVING. Dragana Ivkovic, Predrag Rebic, Vesna Bosnjak Petrovic, Bozica Suzic Todorovic (Yugoslavia)
- 12:45 P705 DECOMPRESSION ILLNESS WITH ENTRAPMENT NEUROPATHY. Seiichiro Togawa, Nobuo Yamami, Harumi Nakayama, Yoshihiro Mano, Masaharu Shibayama (Japan)
- 12:50 P709 DYSBARIC OSTEONECROSIS IN COMPRESSED AIR WORKERS. Mahito Kawashima (Japan)
- 12:55 P802 A STUDY OF MULTIFARIOUS FACTORS ON TREATMENT OF HYPERBARIC OXYGEN IN PATIENTS WITH TRAUMATIC BRAIN INJURY AND INTRACRANIAL HEMORRHAGE. Huan Ge, Chunjin Gao (China)
- 13:00 P806 A STUDY PROTOCOL FOR THE HBO TREATMENT IN SEVERE HEAD INJURY PATIENT. Jasenka Candrljic, Ines Takac, Robert Saffic, Kresimir Candrljic, Slavica Kvolik (Croatia)
- 13:05 P807 EFFECT OF HYPERBARIC OXYGEN ON EXPRESSION OF INDUCIBLE NITRIC OXIDE SYNTHASE MRNA IN HIPPOCAMPUS AFTER CEREBRAL ISCHEMIA-REPERFUSION IN RATS. Guozhong Wang, Chunjin Gao, Huan Ge, Rui Chen (China)
- 13:10 P902 EFFECTS OF HYPERBARIC OXYGEN THERAPY ON THE EXPRESSION OF PLATELET MEMBRANE GLYCOPROTEINS IN PATIENTS WITH ISCHEMIC STROKE. Chunjin Gao, Jian Zhang, L. Zhao, G. Wang, C. Xia, H. Ge, S. Niu, M. Qi, L. Yang, Y. Gao (China)
- 13:15 P906 EFFECTS OF THE EXPOSURE TO HYPERBARIC OXYGEN THERAPY IN DIFFERENT EXPERIMENTAL MODELS OF ABDOMINAL SEPSIS. Joaquim Duarte, M. Leite, I. Alves, M. Korn, M. Knibel, A. Fonseca, D. Mourão, R. Figueredo, F. Bozza (Brazil)
- 13:20 P907 HYPERBARIC OXYGEN THERAPY REDUCES SEVERITY AND IMPROVES SURVIVAL IN ACUTE SEVERE PANCREATITIS. Ian Millar, M. Nikfarjam, C. Cuthbertson, K. Su, C. Malcontent-Wilson, C. Christophi (Australia)
- 13:25 P910 HIV POSITIVE - HYPERBARIC OXYGENATION - DOES IT HAVE PLACE HERE ? Dusko Micevic, Bozica Todorovic-Suzic, Branka Cantrak-Micevic (Yugoslavia)
- 13:30 Special Lecture – SPANISH MUSIC: MUCH MORE THAN GUITAR AND CASTAÑUELAS
Jordi Desola (Spain)

14:00 Closing Ceremony**14:15 End of the Conference****Numbering always corresponds to the Session the papers are assigned, and their order in it.**

BARCELONA MEETING & VISITOR INFORMATION

THE WELCOME RECEPTION

We have refused to offer you an elegant, conventional, and polite reception in a palace of the old city, thinking instead in those arriving the same day in the evening. This will be an informal first-contact meeting, to take a drink in the same Hotel, may be just arriving from the airport. Meet old colleagues, register now and obtain your documents in the registration area. You will save time and diminish crowded queues in the next morning.

CONNECTIONS TO THE CITY

Taking a taxi? Of course, if you want. Not cheap, but probably less than what you expected. But let me suggest you to use our public transportation systems. In the same station where you probably arrived from the airport, you will find connections to the Underground Network that will link you with almost all parts of the city.

If you prefer to take the open air, you will find in front of the Hotel, in "*Plaça dels Països Catalans*" a **Terminal Bus** with large number of connections. You will already have got a street map of the city and of public transportation from the Hotel. If you forgot to ask for it, we let you one with the documentation of the conference.

Renting a car? I strongly disadvice. Traffic in Barcelona is awful, terrible, a whole disaster. Even in the case that you will not be lost, you will employ one hour of your precious time to achieve a remote area available with 10 minutes of metro. And once arrived, you will invest another half an hour after deciding to go back because it is impossible to find a parking site.

MUSEUMS, MONUMENTS, SIGHTSEINGS

I cannot recommend you one among so many. This will always depend on your preferences. Everybody remembers the Picasso's, the "Sagrada Familia" or other creations from Gaudi. May be I can slightly insist in the sometime forgotten Museum of "*Art National de Catalunya*". You will find some of the world best collections of Romanesque wall paintings rescued from small chapels of the Pyreneum built in the XII. Century.

My only real advice is that nobody should leave Barcelona without having walked quietly from *LES RAMBLES*, or not having walked slowly by the narrow streets of the "*BARRI GOTIC*", between the Cathedral, the "*PLAÇA DEL REP*", and the "*PLAÇA DE SANT JAUME*". And enter, at least once, inside the temple of "*Santa Maria del Mar*" one of the most impressive Gothic churches of the city. And if you are still here in Sunday morning, go to the Cathedral Square to see *Sardanes* dancing in the open air. You will have the chance to see a *CASTELLERS* exhibition too; you will be amazed by their human constructions of up to 9 floors following a very old documented tradition.

SAFETY

Is Barcelona a very dangerous city? Unfortunately safety is inversely proportional to the size and the popularity of a city and we are not an exception. Thieves are good psychologists and they immediately discover imprudent persons, and those that do not know where are they walking through. Providing that, and taking all the caution measures recommended for any trip, I do not believe that Barcelona is more dangerous than other

cities. Of course, take care of your bags in the crowded areas, avoid dark and desert streets, and remember what you put at any pocket.

RESTAURANTS

Thousands! Not all of the same level, of course. You want to taste *TAPAS*? Why not, but do not forget that you are in Catalonia, and *TAPAS* is one of the traditions imported from other areas of Spain. You will not find in the entire city, some of these famous streets you can perhaps know from Sevilla, Bilbao and even Madrid, when dozens of Bars offered small pieces of food, any day, any time, at very cheap prices. No, this was never our tradition, but everyday more modern snack bars are offering today a kind of *TAPAS* selection of good quality and moderate price. You will also find plenty of small restaurants offering a full lunch or a dinner for less than the price of a hamburger in some very known fast-food shops. Do not look for that in tourist areas. There is no special recommendation; I am refraining from listing here names of my preferred restaurants.

TIPPING

Barcelona is following the same trend than may other European cities. We believe that people must have a good salary and by no mean their economy can be dependent on the generosity of their customers, and the quality of a service should not be conditioned to an extra-payment. Taxes are always included in the prices, and our tendency is to progressively diminish the importance of tips. Alternatively, you can reserve tips only to express your satisfaction for an excellent service received. You can compensate an especially sympathetic servant, or an extremely accurate service, or a boy that has made you a big favour. But you are not obliged to add 15% extra tip over the price of a service. It will be appreciated of course, but they are not necessarily waiting for this.

SPECTACLES

Of any kind. Look at the "*GUIA DEL OCIO*" our local version of the famous TIME-OUT. Do not forget to include a visit of the "Palau de la Musica" preferably in a real performance, or the "LICEU" our Opera Theatre.

You would like to see "*Flamenco*" dance? So would I! I usually try to when I go to visit my friends in Malaga or in other cities from *Andalucia*. Again, please do not forget that you are in Catalonia. We like Flamenco, a wonderful dance from the South of Spain that the rest of the country has learned to love. There is no authentic "*Tablao Flamenco*" in Barcelona but any travel agency will arrange for you a visit to a good spectacle where you will see very good flamenco dancers.

SEPTEMBRE 11 IN BARCELONA

This date will always have a special meaning for everybody. Probably you do not know that Septiembre 11 is from 1714 the National Day of Catalonia. It is a nice feast, and you will see every kind of cultural and traditional activities in the open air and in the street during the morning. But I do not recommend you to walk by *RAMBLES* on this day, and especially not in the afternoon. It will be too crowded and the possibility of unexpected manifestations is not rare in this date.

Jordi Desola, MD, PhD

AUTHORS INDEX

Abassi, Z.	O92	Cramer, F.	P506, O71
Ademoglu, A.	P313	Cronjè, F.	P308
Adir, Y.	O41	Cuthbertson, C.	P907
Aggrawal, H.	O91	D'Alessandro, N.	P307
Alas, R.	P207	Damiens, D.	P205
Alborno, T.	O94	Data, P.	P307, O42
Albornoz, J.	P815	De Bruijn, R.	P606
Aldama, G.	O64	De Fina, L.	O72, P712
Alex, J.	O52	Demchenko, I.	O44
Alleva, R.	O56	Desola, J.	O21, P203, O51, P505, O74
Alves, I.	O83, P811, P906	Destruelle, A.	P605
Arieli, R.	P304, O41, O82	Desylva, P.	O84
Arieli, Y.	P304	Di Donato, F.	O56
Atkey, P.	P205	Didonè, M.	P308, O42
Atochin, D.	O44	Dräger, T.	O14, P603
Aydin, S.	P313	Duarte, J.	P906
Bader, N.	O43	Dufaitre, L.	P607
Balestra, C.	P308, O42, O61	Egi, S.	P313
Bansali, P.	O91	Endermann, K.	P707
Basciu, S.	P702	Ezquer, M.	O61
Batle, J.	P401	Faeseke, K.	P711
Beaucourt, L.	P201, P701	Fang, Y.	P609
Bedini, R.	P307	Ferrer, M.	P401
Benes, J.	P921	Figueiredo, R.	P811, P906
Bennett, P.	P308	Finco, G.	P103
Bennett, S.	O52	Fojon, S.	O64
Berge, V.	O32	Fonseca, A.	O83, P811, P906
Better, O.	O92	Forteza, G.	O51
Bhatt, V.	O91	Fothergill, D.	P302
Bitterman, N.	O62	Frånberg, O.	P301
Bjordahl, S.	O63	Frigo, M.	P101, P812
Blatteau, J.	O73	Gaini, R.	P101, P812
Blogg, L.	O31	Galicía, J.	P201, P701
Bohé, J.	O21	Galland, F.	P605, O73
Bolek, L.	P912	Gao, C.	P501, P502, P508, P509, P802, P807, P808, P901, P902
Boonstra, O.	P911	Gao, G.	P306
Bosco, G.	P307, P801	Gao, Y.	P902
Bourgeois, M.	O61	Garavello, W.	P101
Boussuges, A.	P605	Garcia, Á.	O21, P203, P505
Bozza, M.	P811, P906	Garcia, L.	P203, P505
Brauzzi, M.	O72, P712	Ge, H.	P802, P807, P808, P902
Breedijk, J.	O34	Gempp, E.	O73
Bresson, R.	P607	Gennser, M.	O31, P301, P305
Brkic, P.	O95, P914	Germónpré, P.	P204, P308, O61
Brubakk, A.	O32, P305	Gill, B.	O91
Bumbasirevic, M.	O54	Goplen, F.	P604
Caamaño, V.	O24	Gotoh, Y.	P610
Calderón, J.	P708	Grandjean, B.	P607
Cale, A.	O52	Griffin, S.	O52
Cali-Corleo, R.	P308	Grønning, M.	P604
Campanaro, V.	P205	Grossman, R.	P311
Camporesi, E.	P801	Guarino, R.	O55
Candrlic, J.	P806	Gustafsson, B.	O25
Candrlic, K.	P806	Gutvik, C.	O32
Cantrac-Micevic, B.	P910	Guvendik, L.	O52
Carraway, M.	O93	Hajek, M.	P206, P503
Castaldi, P.	P702	Hart, G.	P207
Centeno, R.	P102	Hessinger, M.	P507
Cera, V.	P504	Heuser, G.	P913
Chang, L.	P809	Heuser, S.	P913
Chappell, M.	P309, P310	Hoffmann, U.	O14, P603
Chávez, A.	P815	Hoggard, M.	P814, P903, P904
Chen, R.	P609, P807	Hope, A.	O63
Christophi, C.	P907	Houman, R.	P205, P206
Cipollaro, C.	O55	Hovin, W.	P305
Coutin-Marie, G.	P703		

AUTHORS INDEX (continued)

Hu, M.	P609	Marchi, A.	P103
Huan, G.	P502, P508	Markovic, M.	P601
Huang, P-	O44	Marmion, N.	P607
Huang, Y.	P809	Marroni, A.	P308, O61
Hugon, M.	P605	Mascolo, L.	O55
Iesu, C.	P702	Massip, M.	P505
Ivkovic, D.	P602, P909	Masu, A.	P702
Irgens, Å.	P604	Mathai, S.	O91
Jagmane, I.	P504	Matzi, V.	P810, O94
Jammes, Y.	P605	Mayevsky, A.	P803, P908
Johannesson, B.	P301	McCollum, P.	O52
John, M.	O84, O91	Meirovithz, E.	P803
Johnson, K.	P814, P903, P904	Melin, B.	P605
Jovanovic, T.	O54, O95, P914	Micas, M.	O51
Jørgensen, A.	O32	Micevic, D.	O54, P910
Juric, I.	P813	Mihaljevic, L.	P813
Kähler, W.	O43	Mihaljevic, S.	P813
Kanstinger, A.	P205	Millar, I.	P907
Katsenelson, K.	P304	Mitrovic, A.	O95, P914
Kawashima, M.	P709, P710	Mochizuki, T.	P610
Kelner, B.	P205	Møllerløgken, A.	O32, P305
Kemmer, A.	P206, P707	Monastra, L.	O55
Keusch-Preininger A.	P507	Moon, R.	O93
Kirchner, H.	P206	Morales, V.	P703
Klemen, H.	P206, P810	Mortensen, C.	P206
Klingmann, C.	O12	Mourão, D.	P811, P906
Knibel, M.	O83, P811, P906	Mueller, P.	O13
Knudsen, G.	O63	Mura, G.	P702
Kobayshi, K.	P610	Musu, M.	P103
Koch, A.	O43	Nagpal, S.	O91
Kohr, M.	O83, P811	Nakayama, H.	P705
Kohshi, K.	O81	Naranjo, J.	P102
Koktysz, R.	P312	Nasole, E.	O56
Korn, M.	P906	Nikfarjam, M.	P907
Kot, J.	P206	Nikolic, B.	O95
Kontaxis, A.	P810, O94	Niu, K.	P901
Kozlowski, W.	P312	Niu, S.	P902
Kurtaran, E.	P313	Nordahl, S.	P604
Kvolik, S.	P806	Novy, P.	P912
Laden, G.	O52	Nyland, H.	P604
Landolfi, A.	P307	Neirynck, Y.	P204
Larsson, A.	O25	Nodera, M.	P610
Larsson, N.	P301	Nossum, V.	P305
Lavoute, C.	O33	Ofir, E.	O62
Lee, C.	P809	Ohlmann, K.	O43
Lee, H.	P809	Oliva, J.	P505
Leiffen, D.	P605	Olszanski, R.	P312
Leite, M.	P906	Orrù, A.	P103
Lettieri, B.	P801	Ott, M.	O93
Lin, M.	P901	Ovcharenko, E.	O92
Lind, F.	O25	Padilla, W.	P703
Lipp, C.	P810, O94	Palzur, E.	O82, P804, P805
Lisagor, I.	P504	Pan, L.	P609
Liu, F.	P501	Paulus, C.	P507
Longobardi, P.	P206, P308, O42, O53, O96	Pavon, M.	P102
Lormeau, B.	P607	Payne, S.	P309, P310
Løset, A.	O32	Peelaers, K.	P201, P701
Lozano-Valdes, A	P703, P704	Perttilä, J.	P206
Lu, S.	P809	Petrovic, V.	P602
Lundkvist, R.	P301	Piantadosi, C.	O44, O93
Luongo, C.	O55, P801	Pieri, M.	P308
Luongo, M.	O55	Pokorny, A.	P608
Macontent-Wilson, C	P907	Pons, A.	P401
Mályusz, M.	O43	Pontier, J.	O73
Mancosu, S.	P702	Porubsky, C.	O22, O94
Mano, Y.	P705	Pusceddu, E.	P103
Marazzo, V.	P103	Qi, M.	P501, P808, P902

AUTHORS INDEX (continued)

Randaccio, C.	P702	Torp, K.	O93
Ratzenhofer, B.	P507	Troland, K.	P604
Rebic, P.	P602	Trushus, V.	P504
Regnard, J.	P605	Tufan, K.	P313
Renner, H.	O22, P608, P713	Tur, J.	P401
Richardson, M.	P606	Uribe, R.	P815
Robinet, C.	P605, O73	Uusijarvi, J.	O25
Rodriguez, J.	O51	Vahidova, D.	O13
Rogatzky, G.	P803, P908	Valdes, A.	P702
Romagnoli, M.	P101, P812	Van der Huls, M.	P911
Romaguera, P.	P401	Van der Putten, B.	O34
Rostain, J.	O33	Van der Tol, M.	P205
Rubbini, M.	O96	Van Laak, U.	P202
Rubinstein, I.	O92	Van Poucke, S.	P201, P701
Ruzicka, J.	P912	Vavra, P.	P912
Saksons, V.	P504	Vaz, C.	P102
Saftic, R.	P806	Vázquez, V.	P815
Sala, J.	O21, P203, P505, O74	Vernotico, L.	O53
Sánchez, E.	P815	Videgain, J.	P706
Sanchez-Andrade, J.	O64	Vivek, V.	O91
Saraste, H.	O25	Vlodavsky, E.	O82, P804, P805
Sasaki, M.	P710	Volkson, V.	P504
Satta, A.	P103	Vujnovic, D.	O23
Savic, S.	O54	Walch, C.	P810
Sbrana, G.	O72, P712	Wang, G.	P502, P508, P509, P807, P808, P902
Schagatay, E.	P606	Wang, Y.	P509
Schrier, L.	O34	Weiss, M.	O33
Schwarz, A.	P205	Welslau, W.	P202
Sieber, A.	P303	Wigert, R.	P301
Siermontowski, P.	P312	Winaver, J.	O92
Silva, J.	O83, P811	Workman, T.	O26
Sinobad, M.	P601	Wu, H.	P905
Shibayama, M.	P705	Xia, C.	P501, P808, P902
Shirachi, D.	P814, P903, P904	Xiao, W.	P609
Shupak, A.	O10	Xu, J.	P609
Shurong, Z.	P208	Xu, W.	P905
Smolle-Jüttner, F.	O22, P507, P810, O94	Yamami, N.	P705
Snoek, T.	O61	Yan, X.	P801
Soares, M.	O83, P811	Yanagisawa, H.	P610
Sola, A.	P607	Yang, L.	P508, P902
Sondore, A.	P504	Yang, Z.	P801
Sonn, J.	P803	Yildiz, G.	P313
Sordo, L.	P812	Yogarham, J.	O52
Soustiel, J.	O82, P804, P805	Yu, F.	P609
Sporic, K.	P813	Yu, S.	P809
Sryidhar, J.	O84	Yuan, B.	P808
Sterk, W.	O34, P911	Zanon, V.	P307, P801
Stiegler, P.	P810, O94	Zaric, O.	O95, P914
Strauss, M.	P207	Zein-Sanchez, P.	O13
Su, K.	P907	Zhao, H.	P501
Sundal, E.	P604	Zhao, L.	P808, P902
Sundland, H.	O63	Zhang, H.	P609
Sureda, A.	P401	Zhang, J.	P902
Tabah, A.	P607	Zhang, Y.	P502
Takac, I.	P806	Zhang, Z.	P609
Talpalar, A.	P311	Zhou, L.	P509
Tanasi, P.	O72, P712		
Tao, H.	P905		
Tauler, P.	P401		
Thorsen, E.	P604		
Thuringer, O.	P607		
Tiesenhausen, K.	P507		
Todorovic, B.	P602, P909, P910		
Togawa, S.	P705		
Tomasetti, M.	O56		
Torf, H.	O43		

INSTRUCTIONS TO AUTHORS

The **EJUHMH** welcomes contributions (including letters to the Editor) on all aspects of diving and of hyperbaric medicine. Manuscripts must be offered exclusively to the **EJUHMH**, unless clearly authenticated copyright exemption accompanies the manuscript. All manuscripts will be subject to peer review, with feedback to the authors. Accepted contributions will be subject to editing.

Manuscripts are accepted in English, and also in major European languages (French, Spanish, Italian and German) when accompanied by an English abstract.

Contributions should be sent to

Dr. Peter HJ Mueller, Editor EJUHMH, C/o HBO-Zentrum Rhein-Neckar am Diakoniekrankenhaus Mannheim, Speyerer Strasse 91-93, D-68163 Mannheim/Germany. Fax: +49-621-8102 393. Phone: +49-621-8102 390. E-mail: eubs@hbo-mannheim.de

Requirements for Manuscripts

The **EJUHMH** is composed on a PC using Word processing. Documents are acceptable on disc or by e-mail. Illustrations and tables should **NOT** be embedded in the Word document, only their position indicated. All tables are to be separate documents. Illustrations should be separate documents in Word or JPEG, clearly marked with the format used. References should be in the correct format, shown in the next column. Two printed copies of all text, tables and illustrations must accompany submissions.

The printed copies should be double-spaced, using both upper and lower case, on one side of the paper only, on A4 paper. Headings should conform to the format in the Journal. All pages should be numbered. No part of the text should be underlined. These requirements also apply to the abstract, references, and legends to figures. Measurements are to be in SI units (mm Hg are acceptable for blood pressure measurements) and normal ranges should be included. All tables should be double spaced on separate sheets of paper. No vertical or horizontal rules are to be used.

Photographs should be glossy black-and-white and slides should be converted to photographs before being sent. Colour reproduction is not available. Legends should be less than 40 words, and indicate magnification.

Abbreviations do not mean the same to all readers. To avoid confusion they should only be used after they have appeared in brackets after the complete expression, e.g. decompression illness (DCI) can thereafter be referred to as DCI.

The preferred length for original articles is 2,500 words or less. Inclusion of more than 5 authors requires justification. Original articles should include a title page, given the title of the paper and the first names and surnames of the authors, an abstract of no more than 200 words and except in unusual situations be subdivided into Introduction, Methods, Results, Discussion and References. After the references the authors should provide their initials and surnames, their qualifications, and the positions held when doing the work being reported. One author should be identified as Correspondent for the Editor and for readers of the Journal. The full current postal address of each author, with the Telephone, facsimile numbers and e-mail address of the corresponding author, should be supplied with the contribution. No more than 40 references per major article will be accepted. Accuracy of the references is the responsibility of authors. Acknowledgments should be brief.

Abstracts are also required for all case reports and reviews. Letters to the Editor should not exceed 400 words (including references which should be limited to 5 per letter).

References

Authors are responsible for verifying references against the original documents. References must be numbered consecutively in the order in which they first appear in the text, and identified in the text by arabic numerals in parentheses. References cited only in tables or legends should be numbered in accordance with a sequence corresponding to the first mention of the table or figure in the text. List names and initials of all authors when six or less, when seven or more, list only the first three authors and add et al.. Citations in the reference list are to be in the form used by the U. S. National Library of Medicine and *Index Medicus*:

1. Thorsen E, Risberg J, Segadal K, Hope A. Effects of venous gas microemboli on pulmonary gas transfer function. *Undersea Hyperbaric Med* 1995; 22:347-353.
2. Hempleman HV. History of decompression procedures. In: Bennett PB, Elliott EH, Eds. *The physiology and medicine of diving*. London: WB Saunders, 1993:324-375.
3. Kindwall EP, Goldmann RW. *Hyperbaric medicine procedures*. Milwaukee, WI: St. Luke's Medical Center, 1970.

Manuscripts that have been accepted should be cited in the reference list as regular references, with "in press" in place of journal pages. Citations such as "unpublished observations", "personal communication", "manuscript in preparation", or "to be published" are not to appear in the reference list, although reference to such a communication, if it exists in written form, may be cited in the text in parentheses. References to government reports should not be cited unless such reports are easily available to all readers.

Consent

The **EUBS** endorses the principles of the Declaration of Helsinki on the treatment of human subjects and approved guiding principles in the care and use of animals. Any report of experimental investigation on human subjects must contain evidence of informed consent by the subjects and of approval by the relevant institutional ethical committee.

REPRINTING OF ARTICLES

Permission to reprint original articles will be granted by the Editor, subject to the author's agreement, provided that an acknowledgment, giving the original date of publication in the **EJUHMH**, is printed with the article. Where the author has claimed copyright at the end of the article requests for permission to reprint should be addressed to the author, whose address appears at the end of the article.

Papers that have been reprinted from another journal, which have been printed with an acknowledgment, require permission from the Editor of the original publication before they can be reprinted. This being the condition for publication in the **EJUHMH**.

EJUHMH ARTICLES SUBMISSION CALENDAR

Issue	Deadline
Spring: March	15 February
Summer: June	15 May
Autumn: September	15 August
Winter: December	15 November

Gebühr bezahlt beim Postamt Neckarau, D-68199 Mannheim

If undeliverable pls. return to:

EJUHM-Editor Dr. Peter HJ Müller,

c/o HBO Rhein-Neckar, Speyerer Strasse 91-93,

D-68163 Mannheim/Germany



SEA-LONG
MEDICAL SYSTEMS, INC.
LOUISVILLE, KENTUCKY

Tel/Fax: ++44 1752 480919

- Hoods
- Neckseals available in Latex and Non-latex
- Masks
- Supplies for all your hyperbaric needs
- On-line ordering

European Sales to:
eurosales@sea-long.com
Point Cottages, Barton Road
Turnchapel, Plymouth, Devon, UK PL9 9TW

Please visit our website at:
www.sea-long.com

Series 500
"Most Versatile Hood on the Market!"

Series 7000 Mask

Series 500
Replaceable Neckseal

888

3M Blendern

CHRISTOLUBE