

# European Journal of Underwater and Hyperbaric Medicine



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**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.

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**CIRCULATION of this issue:** 800

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## WELCOME ADDRESSES

### Dear Friends and Colleagues,

This current issue is dedicated to the program and the abstracts of the annual scientific meeting of the EUBS. The Scientific Committee chaired by Jean-Louis Meliet has made a fantastic work to realize a very dense program and has finally selected 55 papers and 30 posters.

On a scientific level, the meeting promises to be attractive and I hope you will appreciate its high educational level despite many external temptations!... Concerning the general organization, which is my concern, my wish is to find an empty "complaints book" at the end of these working days. I pay therefore a particular attention to make the things as perfect as they can be.

Last, I remind you that to give a brilliant feat to the 30<sup>th</sup> anniversary of our meeting, the Scientific and Organising Committees will reward the two best presentations (oral or poster) with a €1.000 prize, one in diving medicine and one other in hyperbaric medicine.

Wishing all the best to this congress and a pleasant stay to the participants, see you in Ajaccio.

**Bruno Grandjean,  
Secretay General EUBS 2004**

### Dear Friends,

On behalf of the Scientific Committee, I would thank all members and sympathizers who proposed communications. Actually, the scientific program of this 30<sup>th</sup> Annual Meeting will be dense: 85 communications will be presented, 30 posters and 55 oral. The Scientific Committee received more abstracts than the agenda allowed time for presentations. Some were not accepted, others were shifted from oral to poster presentation, some authors were asked to merge abstracts on the same topic. The Scientific Committee made his choice on the following criteria: interest for the Society, scientific approach, clarity and originality, with a determined will to offer a tribune to our colleagues from Eastern Europe, who show in this occasion their dynamism in our discipline.

The number of retained communications did not permit to organise a session to orally present the posters to the assembly. So, the poster presentation will take place during the coffee breaks, and especially on Friday 17 September, end of morning. Presenting authors are invited to stand by their poster to answer to the numerous questions, which they will put. A Jury made of famous personalities of our Society will examine all the posters and point out the best of them, which will receive the 30<sup>th</sup> Anniversary Zetterström Award.

Finally, I would recommend to our attendees to not skip over the introductive lectures, which will be presented by famous professors or personalities whose works made our speciality to progress: thus, this week in Corsica should marry tourism, enjoyment and spirit elevation. This is all I hope to everybody!

**Jean-Louis Méliet,  
Scientific Committee Secretary**

## EUBS FINANCIAL STATEMENT FOR THE PERIOD 1<sup>st</sup> JANUARY TO 31<sup>st</sup> DECEMBER 2003

<u>Income</u>			<u>Bank Balance</u>	
Membership Fees	2002	1,201.36	Account Balance as at 01.01.03	5,791.51
	2003	2,960.00	Stamp Stock & Cash in Hand 01.01.03	<u>178.54</u>
Bank Interest		37.67		5,970.05
Journal Advertising		200.00	Add Income over Expenditure	<u>82.83</u>
		<u>£4,399.03</u>		<u>£6,052.88</u>
<u>Expenditure</u>			Account Balance as at 31.12.03	6,030.46
Secretarial Fees		300.00	Stamp Stock & Cash in Hand at 31.12.03	<u>22.42</u>
Cardnet Charges		346.50		<u>£6,052.88</u>
Postage/Telephone/Sundries		156.12		
Journal Expenses				
Vol 3 No 4	Printing	715.14		
	Postage	320.33		
Vol 4 No 1	Printing	841.12		
	Mailing	366.11		
Vol 4 No 2	Printing	623.15		
	Mailing	265.16		
Vol 4 No 3 & 4	Mailing	382.57		
		<u>3,513.58</u>		
		<u>£4,316.20</u>		
Expenditure over Income		<u>£82.83</u>		

### Ed Thalmann, M.D., Assistant Medical Director of Divers Alert Network for nine years, died July 24 in his Durham, North Carolina, home at the age of 59.

Dr. Thalmann, regarded as one of the world's foremost authorities on diving decompression, joined DAN in July 1995 as the organization's assistant medical director. He functioned as the physician resource for DAN medics, consulting with dive medicine physicians who treated patients worldwide. He headed DAN's continuing education programs for the medical staff and on-call doctors; he also participated in numerous research efforts.

While at DAN, Dr. Thalmann also worked on the Duke University Medical Center medical staff, the Duke Anesthesiology Department and at the Center for Hyperbaric Medicine and Environmental Physiology. There, he participated in both patient care (dive accidents and clinical hyperbaric oxygen treatments) and in medical research programs.

Dr. Thalmann retired from the U.S. Navy in 1993 after 22 years. While in the Navy, he helped develop operational procedures for diving, testing and evaluation of diving life-support equipment and medical research programs.

Projects included the development of new diving decompression tables (surface-supplied and saturation), measuring the performance of and writing specifications for diver thermal protective equipment, studying the effects of underwater exercise on diver performance and improving underwater breathing apparatus design and testing.

He is survived by Brenda Thalmann, former wife, and two daughters: Amanda and Katherine Thalmann, both of Durham, N.C. In lieu of flowers, donations can be made in Dr. Thalmann's name to: Durham Rescue Mission, 507 E. Knox St., Durham, NC 27701, USA.



# PROGRAM OF THE 30<sup>th</sup> ANNUAL SCIENTIFIC MEETING OF THE EUBS

September 15<sup>th</sup> – 19<sup>th</sup>, 2004

Palais des Congrès et Expositions Millénari d'Ajaccio  
Ajaccio, Corsica

## Thursday, September 16, 2004

09:00 **Opening ceremony**

### Session 1: Diving Medicine

**Chairman: J. Desola**

09:15 **Invited lecture**

**Pr Alf Brubakk:** The Role of Endothelium in Decompression Illness

09:45 DM 01 HYPERBARIC OXYGEN ELIMINATES GAS BUBBLE NUCLEI: THE EFFECT OF EXPOSURE DURATION AND PRESSURE LEVEL

Ertracht O., Arieli Y., Arieli R.

10:00 DM 02 MICROPARTICLES AND DECOMPRESSION

Madden L.A., Laden G. and Greenman J.

10:15 DM 03 USE OF A DEEP (15M) AND SHALLOW (6M) STOP FOLLOWING 25 METER NO-DECOMPRESSION DIVES REDUCES DECOMPRESSION STRESS (AS OBSERVED BY DOPPLER-DETECTABLE BUBBLES) WHEN COMPARED TO EITHER A DIRECT ASCENT, OR DIRECT ASCENT WITH ONLY A SHALLOW STOP

Marroni A., Bennett P.B., Cronjé F.J., Balestra C., Cali-Corleo R., Germonpré P., Pieri M., Bonuccelli C.

10:30 DM 04 DECOMPRESSION PROTOCOLS WITH DEEP STOPS: COMPARATIVE DOPPLER STUDY WITH THE PROCEDURES OF THE FRENCH NAVY

Blatteau J-E., Hugon M., Gardette B., Galland F-M.

10:45 **Coffee break**

### Session 2: Hyperbaric Medicine

**Chairman: M. Rocco**

11:15 HBO 01 IATROGENIC GAS EMBOLISM: CASE OF A PREGNANT WOMAN, WITH A CENTRAL VENOUS WAY

Harms J-D., Alberola S.

11:30 HBO 02 HYPERBARIC OXYGEN THERAPY FOR INTENSIVE CARE PATIENTS. BENEFIT ALLIANCE? Hajek M.

11:45 HBO 03 THE EFFECT OF HYPEROXIA IN PHOTODYNAMIC THERAPY IN 3 DIFFERENT CELL LINES

Hjelde A., Gederaas O.A., Krokan H.E., Brubakk A.O.

12:00 HBO 04 HBO THERAPY FOR SURGICALLY TREATED FRACTURES OF THE CALCANEUS

Endermann K., Schöppenthau H., Kemmer A.

12:15 HBO 05 OSTEORADIONECROSIS OF THE ANKLE TREATED WITH HBO. ASSESSMENT BY DYNAMIC CONTRAST ENHANCED MRI OF A CLINICAL GOOD RESULT

Van der Kleij A.J., Maas M., Schaap G.R.

12:30 **Lunch**

**Thursday, September 16, 2004****Session 3: Hyperbaric Medicine****Chairman: P.H.J. Müller**

- 13:30      **Invited lecture**  
**Pr J.F. Rees:** Heaven and Hell: Oxygen Toxicity in the Deep Sea
- 14:00 HBO 06 IT IS POSSIBLE TO DOUBLE BLIND A HYPERBARIC SESSION  
Jansen T., Mortensen C.R., Tvede M.F.
- 14:15 HBO 07 INFLUENCE OF HBO ON HEART RATE MONITORING AT PATIENTS WITH ACUTE MYOCARDIAL INFARCTION  
Dikic N., Dekleva M., Djordjevic Dikic A.
- 14:30 HBO 08 SCINTIGRAPHIC EVALUATION OF HYPERBARIC OXYGEN EFFECT IN PATIENTS WITH RECENT MYOCARDIAL INFARCTION  
 Mesimeris T., Melekos T., Balaskas A., Zarifis I., Grammatikos P., Spathis C.
- 14:45 HBO 09 HYPERBARIC OXYGEN THERAPY (HBOT) IN CRUSH INJURIES: EXPERIENCES OF THE HBOT AND TRAUMA CENTER MURNAU, GERMANY  
Schöppenthau H., Endermann K., Kemmer A.
- 15:00 HBO 10 HYPERBARIC OXYGENATION AND ENDOMETRIAL RECEPTIVITY  
 Mitrovic A., Jovanovic T., Nikolic B., Dragojevic S., Brkic P.
- 15:15 HBO 11 TREATMENT OF OSGOOD-SCHLATTER DISEASE BY COMBINED HYPERBARIC OXYGENATION AND HIGH FREQUENCY ELECTROMAGNETIC FIELDS  
Todorovic S.B., Ivkovic D., Bogdanovic S.S., Cubrilo D.
- 15:30 HBO 12 INCREASED FREQUENCY OF OXYGEN SEIZURES DURING MONO-PLACE TREATMENT?  
 Aanderud L., Vaagbo G., Irgens A., Forland M., Thorsen E.
- 15:45 HBO 13 EVALUATION OF SKIN BLOOD FLOW IN PATIENTS TREATED BY HYPERBARIC OXYGEN (HBO). EFFECT OF VASODILATOR DRUG (BUFLOMEDIL).  
Thibaut G., Durand A.
- 16:00      **Coffee break**

**Session 4: Diving Medicine****Chairman: J. Schmutz**

- 16:30 DM 05 BAROTRAUMATIC PNEUMOCEPHALUS IN SCUBA DIVER  
 Barthélémy A., Coulange M., Ranque S., Bergmann E., Sainty J.M.
- 16:45 DM 06 QUANTITATIVE EVALUATION OF LUNG PARENCHYMA HISTOSTRUCTURE IN THE COURSE OF EXPERIMENTAL BAROTRAUMA.  
 Siermuntowski P., Zieliński K., Koktyś R., Olszański R., Kempa G.
- 17:00 DM 07 MEMORY IMPAIRMENT AND IMPACT ON QUALITY OF LIFE IN PROFESSIONAL DIVERS: THE ELTHI DIVING STUDY  
 Macdiarmid J.I., Taylor C.I., Ross J.A.S., Watt S.J., Crawford J.R., Osman L.M., Adie W.R., Lawson A.
- 17:15 DM 08 WHAT FACTORS IMPACT HEALTH RELATED QUALITY OF LIFE IN PROFESSIONAL DIVERS AND OFFSHORE WORKERS? THE ELTHI DIVING STUDY  
Macdiarmid J.I., Ross J.A.S., Watt S.J., Osman L.M., Taylor C.I., Adie W.R., Lawson A.
- 17:30 DM 09 HOMOCYSTEINEMIA AND THROMBOPHILIC FACTORS IN DECOMPRESSION SICKNESS: A PRELIMINARY REPORT  
Simon O., Lapoussiere J-M., Candito M., Van Obberghen E., Dunac A., Chatel M.
- 17:45 DM 10 DIABETES AND DIVING: CHANGE IN REGULATIONS ?  
Tabah A., Lormeau B., Bresson R., Dufaitre L., Thurninger O., Sola A.
- 18:00 DM 11 HANDICAP DIVING – CHALLENGE AND REHABILITATION. PROJECT VERTICAL AGAIN  
Dikic N., Zivanic S., Zivojnovic B.M., Radifkovic P.
- 18:15 DM 12 CONTRIBUTION TO THE UNDERSTANDING OF THE MEDIAL MAXILLARY ARTERY COMPRESSION SYNDROME WITH POTENTIAL IMPLICATIONS FOR DIVERS  
 Snoeck T., Emonts P., Van Assche M., Martin Pacheco D., Ezquer M., Lemort M., Balestra C.

## Friday, September 17, 2004

### Session 5: Hyperbaric Physiology

**Chairman: E. Jansen**

- 08:30 **Invited lecture**  
**Pr Peter Radermacher:** Genotoxicity of Oxygen
- 09:00 HP 01 ARTERIAL BLOOD GAS PROFILES IN SPONTANEOUSLY BREATHING INTENSIVE-CARE PATIENTS AFTER HBO THERAPY  
Ratzenhofer-Komenda B., Offner A., Zink M., Ofner P., Gabor S., Renner H., Klemen H., Smolle-Jüttner FM., Toller W.
- 09:15 HP 02 ENDOTHELIUM DEPENDENT MECHANISM OF OXYGEN INDUCED REDISTRIBUTION OF BLOOD FLOW IN HEMORRHAGIC SHOCK AND SEPSIS  
Bitterman H., Weber G., Goldberg M., Rubinshtein R., Brod V.
- 09:30 HP 03 CEREBRAL OXYGEN DELIVERY AND BRAIN OXYGENATION WHILE BREATHING OXYGEN UNDER PRESSURE  
Demchenko I.T., Piantadosi C.A.
- 09:45 HP 04 THE EFFECTS OF LEPTIN ON VASOMOTOR TONUS UNDER THE HYPERBARIC CONDITIONS  
Jovanovic T., Brkic P., Mitrovic A., Jovanovic N.
- 10:00 HP 05 THE SIGNIFICANCE OF MAGNESIUM CONCENTRATION FOR HYPERBARIC OXYGENATION EFFECTS  
Jovanovic T., Brkic P., Mitrovic A., Jovanovic N.
- 10:15 HP 06 PROTEIN PEROXIDATION DURING 0.5-HOUR EXPOSURE TO 280 kPa(a) PO<sub>2</sub> IN HEALTHY HUMANS  
Kot J., Sicko Z., Wozniak M.
- 10:30 HP 07 VENTILATORY PARAMETER MONITORING DURING INTENSIVE CARE HYPERBARIC TREATMENTS  
Germonpré P., Baekelandt D., Bruyns T.
- 11:00 **Coffee break -**  
Tour of Poster Exhibition (no oral presentation)
- 12:30 **Jury deliberation for posters**

## Saturday, September 18, 2004

### Session 7: Diving Physiology

**Chairman: J. Kot**

- 08:00 **Invited lecture**  
**Pr J. Régnard:** During and Post-Immersion Circulatory Status : Landmarks for Diving Pathological Issues
- 08:30 DP 01 HEMOGLOBIN LEVELS IN ELITE DIVERS, ELITE SKIERS AND UNTRAINED HUMANS  
de Bruijn R., Richardson M., Haughey H., Holmberg H.C., Björklund G., Schagatay E.
- 09:00 DP 02 ERYTHROPOIETIN PRODUCTION AS A RESULT OF REPEATED APNEAS  
de Bruijn R., Richardson M., Milling U., Lemon H., Schagatay E.
- 09:15 DP 03 THE EFFECT OF DIVING ON ENDOTHELIAL FUNCTION IN MAN  
Brubakk A.O., Duplančić D., Valic Z., Uglesic L., Wisløff U., Bakovic D., Dujic Z.
- 09:30 DP 04 PHYSIOLOGICAL INCREASE OF NT-PROBNP DURING SCUBA DIVING IN MAN  
Gempp E., Blatteau J-E., Louge P., Drouillard I.
- 09:45 DP 05 DO OBSERVED CHANGES IN HAEMOSTASIS AFTER DECOMPRESSION MAY BE PREDICTIVE FACTORS IN THE ASSESSMENT OF THE RISK OF DCS ?  
Olszanski R., Radziwon P., Laszczynska J.
- 10:00 DP 06 INCREASED EXPIRED NITRIC OXIDE AFTER VENOUS GAS EMBOLI IN RABBITS  
Agvald P., Gustafsson L., Adding C.L., Linnarsson D.
- 10:15 **Coffee break**

## Saturday, September 18, 2004

### Session 8: EBASS Session

#### Chairman: T. Mesimeris

- 10:45 N 01 NURSING WORK IN A TOP LEVEL HYPERBARIC FACILITY  
Schwarz A., Kemmer A.
- 11:00 N 02 THE ITALIAN ASSOCIATION OF HYPERBARIC TECHNICIANS (A.N.Te.I.)  
Campanaro V.
- 11:15 N 03 IMPORTANCE OF THE QUALITY OF INTAKE AND INFORMATION TO PATIENTS IN HBO-CENTRES  
Leonard D., Houman R., Germonpré P.
- 11:30 N 04 HYPERBARIC OXYGEN THERAPY FOR INTENSIVE CARE PATIENTS. BENEFIT ALLIANCE?  
Hajek M.
- 11:45 N 05 HYPERBARIC OXYGEN THERAPY: ORGANISATION OF THE COLLECTION AND TRANSMISSION OF DATA CONCERNING PATIENTS SESSIONS  
Houman R.
- 12:00 N 06 THE RATING OF THE SATISFACTION FACTOR AMONG PATIENTS IN A CLINICAL HYPERBARIC CENTER  
Houman R.
- 12:15 N 07 CREATION OF A NETWORK OF HOSPITAL NURSES AND FREELANCE NURSES FOR PATIENTS WITH A HEALING DELAY TREATED BY HBO THERAPY  
Jay P., Leonetti B., Soulerin D., Saraïs Y., Breistroffer U., Fanchon A., Casanova P., Grandjean B.
- 12:30 **EUBS Annual General Assembly**
- 13:00 **Lunch**

### Session 9: Safety - Technology – Computing

#### Chairman: P. Germonpré

- 14:00 **Invited lecture**  
**Dr Michael Lang:** The Smithsonian Research Diving
- 14:30 ST 01 A EUROPEAN CODE OF GOOD PRACTICE FOR HYPERBARIC OXYGEN THERAPY  
Kot J., Desola J., Gata Simao A., Gough-Allen R., Houman R., Méliet J-L., Galland F-M., Mortensen C., Mueller P.H.J., Sipinen S.
- 14:45 ST 02 THERMO-CHEMISTRY TRANSITION FROM A CATALYTIC COMBUSTION TO FIRE OF A HAND WARMER IN AN ELEVATED PRESSURE AND OXYGEN RICH ENVIRONMENT  
Le Péchon J-Cl., Most J-M., Oriani G.
- 15:00 ST 03 THE USE OF THE HILBERT-HUANG TRANSFORM IN THE AUTOMATED DETECTION OF VENOUS GAS EMBOLI  
Chappell M.A., Payne S.J.
- 15:15 ST 04 THE ARTERIAL BUBBLE MODEL FOR DECOMPRESSION TABLE CALCULATIONS  
Imbert J.P.
- 15:30 ST 05 A SUBJECTIVE EVALUATION OF A DRINKING SYSTEM FOR DIVERS USED IN SATURATION DIVING  
Hope A., Brekken R.
- 15:45 **Coffee break**

### Session 10: Diving Physiology

#### Chairman: Jean-Claude Le Péchon

- 16:15 DP 07 THE EFFECTS OF NITROGEN AND HELIUM ON CNS OXYGEN TOXICITY IN THE RAT  
Arieli R., Adir Y.
- 16:30 DP 08 RESPONSE TO CO<sub>2</sub> IN NOVICE CLOSED-CIRCUIT APPARATUS DIVERS AND AFTER ONE YEAR OF ACTIVE OXYGEN DIVING AT SHALLOW DEPTHS  
Eynan M., Arieli R., Adir Y.
- 16:45 DP 09 WORK-EFFICIENCY OF UNDERWATER FIN-SWIMMING WITH INCREASING WORKLOADS  
Koch A., Holzum M., Rieckert H.
- 17:00 DP 10 PRESSURE MODULATION OF ISOLATED GLUTAMATE NMDA SYNAPTIC RESPONSE IN MAMMALIAN CENTRAL NERVOUS SYSTEM  
Amir M., Grossman Y.
- 17:15 DP 11 BRAIN LIPID PEROXIDATION AND BEHAVIOUR IN RATS AFTER REPEATED HBO  
Shepeleva Y.V.
- 17:30 **Closing Remarks**



**Poster exhibition****Jury for poster award:****- Chairperson: Noemi Bitterman, President of EUBS****- Scientific Committee members : JC Le Péchon, A Gata Simao, M Hamilton-Farrell, AJ Van der Kleij**

- P01 THE ORALLY EFFECTIVE MIXTURE OF SOD AND WHEAT GLIADIN *GLISODINE*<sup>d</sup>  
PROTECTS AGAINST HBO-INDUCED DNA DAMAGE  
Albicini M., Kick J., Hauser B., Ehrmann U., Leverage X.M., Radermacher P., Speit G., Muth C.M.
- P02 HEAT SHOCK TREATMENT PRIOR TO DIVE INCREASES SURVIVAL IN RATS  
Bye A., Medbye C., Brubakk A.O.
- P03 NEUROPSYCHOMETRIC DATA COMPARISON BETWEEN SPORTS DIVERS, SPORTS  
FIGHTERS AND CONTROLS  
Balestra C., Germonpré P., Ezquer M., Snoeck T., Marroni A.
- P04 LEISURE SCUBA DIVING: PULMONARY EDEMA IS LIFE-THREATENING AND  
PROBABLY UNDERREPORTED  
Cochard G., Arvieux J., Lacour J.M., Madouas G., Mongredien H., Arvieux C.C.
- P05 SEARCH FOR CEREBRAL ARTERIAL BUBBLES AFTER HUMAN AIR DIVING.  
RELATIONSHIP WITH RIGHT-TO-LEFT SHUNT AND CIRCULATING VENOUS BUBBLES  
Blatteau J-E., Hugon M., Galland F-M.
- P06 INFLUENCE OF SCUBA DIVING ON ASYMPTOMATIC ISOLATED PULMONARY BULLA  
Germonpré P., Balestra C., Pieters T.
- P07 DIVING ACCIDENTS: KEY WORD FOR THE DISPATCH OF A MEDICALISED  
HELICOPTER AND ANALYSIS OF ACCIDENTS  
Joray F., Schoettker P., Glanzmann Y., Fishman D., Spahn D.R.
- P08 OPPOSING EFFECTS OF NITROGEN EXPOSURE AT 3 MPA, BEFORE AND AFTER  
SUCCESSIVE DIVES AT 1 MPA, ON THE STRIATAL DOPAMINE RELEASE.  
Lavoute C., Weiss M., Rostain J-C.
- P09 TEN YEARS OF PROSPECTIVE STUDIES IN RECREATIONAL DIVING  
Denoble P.J., Vann R.D., Bennett P.B., Marroni A.
- P10 PERFORMANCE OF SAFETY STOPS  
Galicia J., Van Poucke S., Peelaers K., Beaucourt L.
- P11 INHIBITION OF HO-1 INCREASES HBO-INDUCED DNA-STRAND BREAKS IN VIVO  
Gröger M., Radermacher P., Speit G., Muth C.M.
- P12 NO INCREASES HBO-INDUCED DNA-STRAND BREAKS IN VIVO  
Gröger M., Radermacher P., Speit G., Muth C.M.
- P13 UNUSUAL CAUSE OF CONVULSION IN A HYPERBARIC CHAMBER. A CASE REPORT.  
Förster W.S., Angerer P., Oberfeld K.
- P14 HYPERBARIC OXYGEN THERAPY (HBO) AND NEONATAL ARM ISCHEMIA  
Harms J-D., Ruzic J-C., Flodrops H., Randrianaly H.
- P15 HYPERBARIC OXYGEN IMPROVES PUDENDAL NERVE TERMINAL MOTOR LATENCIES.  
A DOSE RESPONSE STUDY.  
Laden G., Gardiner A., Duthie G.S.
- P16 EFFECTS OF HIGH OXYGENATION IN THE ERADICATION OF *HELICOBACTER PYLORI*  
– A MICE MODEL  
Lin T.F., Cheng Y.M., Yang J.C., Lee M.H., Wang S.H.
- P17 DOSIMETRIC STUDY OF HYPERBARIC OXYGEN TREATMENT FOR REDUCTION OF  
SECONDARY BRAIN DAMAGE  
Palzur E., Vlodavsky E., Mulla H., Arieli R., Feinsod M., Soustiel J.F.
- P18 COMPLICATIONS AND SIDE EFFECTS OF HYPERBARIC OXYGEN THERAPY: A  
PROSPECTIVE STUDY.  
Souday V., Henry P-E., Chretien J-M., Asfar P., Alquier P.
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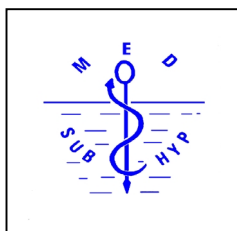
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**REUNION SCIENTIFIQUE D'AUTOMNE  
AJACCIO  
DIMANCHE 19 SEPTEMBRE 2004**

**THEME: LA SECURITE DES MODELES DE DECOMPRESSION**

**TOPIC : SAFETY OF THE DECOMPRESSION MODELS**

**PROGRAMME**

Langue officielle: français

Official language: French; simultaneous translation from French to English

**09H00:** Bilan de 12 années d'utilisation de la table MN 90 par la Marine Nationale. Analyse rétrospective de 61 accidents de désaturation.  
(Assessment of 12 years using MN90 decompression table in the French Navy. Retrospective analysis of 61 DCS.)

BLATTEAU, GUIGUE, HUGON, GALLAND

**09H15:** Validation des procédures de décompression. Méthodologie employée par la Marine Nationale Française.  
(Validation of decompression procedures. The French Navy methodology.)

HUGON, BLATTEAU, GALLAND

**09H30:** Etude des bulles veineuses circulantes chez l'homme. Comparaison doppler pulsé / doppler continu en détection précordiale.

(Study of circulating venous bubbles in human. Comparison between pulsed and continuous precordial Doppler detection.)

BLATTEAU, HUGON, GALLAND

**09H45:** Pour une décompression sécurisée en plongée autonome profonde.

(For an increased safety in SCUBA deep diving.)

GARDETTE, HUGON, GALLAND

**10H00:** Etude doppler des procédures de décompression à l'air. Comparaison avec le protocole de la Marine Nationale Française.  
(Doppler study of air decompression procedures. Comparison with the French Navy protocol.)

BLATTEAU, GARDETTE, GALLAND

**10H15:** Recherche de bulles artérielles cérébrales après plongée à l'air chez l'homme. Relation avec le shunt D/G et la charge en bulles veineuses circulantes.

(Search for cerebral arterial bubbles after air dives in humans. Relation with R/L shunting and the venous bubble load.)

BLATTEAU, HUGON, GALLAND

**10H30: Pause café (Coffee break)**

**11H00:** Expérimentation « Immersion de longue durée » : une coopération de 6 équipes de recherche. Présentation générale de l'opération.  
(The «Long Lasting Immersion» experiment: cooperation between six research teams. General presentation.)

ROBINET, GALLAND, HUGON, JAMMES, REGNARD, LEIFFLEN, MELIN, BOUSSUGES

**11H15:** Cinétique du statut hémodynamique après 6h d'immersion fraîche.

(Kinetics of the hemodynamic status after 6 h of cool immersion.)

MOUROT, WOLF, MELIN, ROSSI, HUGON, DESRUELLE, ROBINET, REGNARD

**11H30:** L'exposition au froid restreint la perfusion sanguine périphérique après plongée  
(Cold exposure restricts peripheral blood perfusion after diving.)

WOLF, MOUROT, JIMENEZ, BOUSSUGES, HUGON, SCHMID, GALLAND, REGNARD

**11H45:** Les accidents au trimix en plongée loisir. Premiers éléments de réflexion.

(Accidents during Trimix recreative dives. First considering elements.)

BERGMANN, QUERUEL, DURAND-GASSELIN

## BOOK REVIEWS

### Wound Care Practice

**Eds: Sheffield, P.J. Smith, APS. Fife, CE**

Best Publishing Company, 2004.

ISBN 1-930536-16-X

Hardcover, 814 pages, \$ 158.00

www.bestpub.com

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Fax: 928.526.0370

Wound Care Practice is a hefty reference aiming to provide a review of wound care from a truly multi-disciplinary perspective. By combining everything from the basic science of the problem wound, to clinical coding and billing in the reader's newly developed wound healing centre (and passing through almost every point in-between), the editors have produced a text which they undoubtedly hope will be the essential desk-top reference in the field.

The book is divided into 5 sections, starting with a review of the basic science of the problem wound and healing process. Subsequent sections concentrate on wound assessment; wound management; pain, infection and adjunctive therapies; and healthcare delivery.

60 authors from the USA and Canada contribute, their number including people from the fields of basic and clinical science, nursing, occupational therapy, physiotherapy, infection control and business.

The section on wound assessment provides a detailed description of the process involved in assessing wounds, referring the reader back to the "final common pathways" seen in the failing wound. Classification is also described, although is a little unwieldy as different wound aetiologies have their own scoring systems. Every piece of the assessment process from history taking to specialist investigation is described, with specific chapters dealing with investigation of vascular disease, transcutaneous O<sub>2</sub> monitoring and laser Doppler flowmetry.

Principles of wound management is broken down into chapters dealing with both general principles, including debridement, surgical intervention and post-operative care, and the problems presented by specific types of wound, patient groups and underlying conditions.

This section of the book provides an excellent grounding in wound management principles. By starting with a general and basic introduction, but moving quickly through a more advanced description of management options and treatment modalities, the reader quickly appreciates current thinking in care of the problem wound. There are very useful descriptions of surgical management including skin grafting and flap formation.

Management of specific types of wound is dealt with exhaustively in separate chapters, and includes everything from pressure sores to necrotic wounds secondary to spider bites. The chapters are generally accompanied by useful photographs which add to the text.

The fourth section of the book is titled Pain, Infection and Adjunctive Therapies, and includes chapters on the use of nutritional support, physiotherapy and occupational therapy, and appropriate pain control.

Hyperbaric Oxygen Therapy is dealt with in this section of the book, where the reader is introduced to the concept of oxygen as a drug. The science behind oxygen transport in the hyperbaric environment is discussed, along with the mechanisms by which HBOT affects wound healing. The UHMS accepted indications for HBOT are reviewed, and the difficulty in providing good quality evidence even in these conditions is acknowledged. The rationale for HBOT in selected disorders related to wound management is discussed and references provided, although this is not as definitive a list as provided by the UHMS HBOT Committee Report – although the reader is directed towards this document. There is a useful section on patient selection, and the use of TcPO<sub>2</sub> in this setting is described.

The last section provides information on the business side of wound healing centres, but also includes information on infection control and management of latex allergies.

Clearly, this text is an ambitious attempt to collect almost every possible element of wound care management into one source. The editors are to be congratulated on providing what is a truly comprehensive book.

As with any project of this size, there are some difficulties in ensuring a consistent approach. A number of chapters appear to cover similar ground, and could possibly have been combined to form a more concise review. There are different styles of presentation and referencing between chapters, which, if corrected, would have provided a more uniform feel. Those chapters which use bulleted lists and text boxes are perhaps easier to glean information from quickly, but this is probably a more personal opinion.

Despite this, the book is well presented, easy to read and comprehensive. It succeeds in its aim of providing a multidisciplinary approach, and covers an exhaustive range of wound care issues. It will provide a useful resource for those working in wound care. It does not aim to be a quick reference guide to diagnosis and management in wound care, and those looking for such should direct their attention elsewhere.

**Dr ASM Hopson. FRCA, B.Sc. (Hons)**  
**Whipps Cross University Hospital, Leytonstone**  
**London E 11 1NR, United Kingdom**

# 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

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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.

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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.

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