

46th Annual EUBS Conference Scientific Program

ORAL PRESENTATIONS

Thursday, September 1st

09:00 – 09:15

Opening Ceremony

09:15 – 10:50

Scientific Session I: Diving/Forensic

Session chairs: Peter Germonpre, Miloslav Klugar

09:15 – 09:50

O1

Invited lecture: The forensic investigation of diving fatalities: the medicolegal procedures.
František Novomeský, Veronika Rybářová

09:50 – 10:05

O2

The forensic analysis of 27 diving fatalities: diver demographics and characteristics.
Veronika Rybářová, František Novomeský

10:05 – 10:20

O3

Does hyperbaric oxygen cause narcosis or hyperexcitability? A quantitative EEG analysis
Xavier Vrijdag, Hanna van Waart, Chris Sames, Simon Mitchell, Jamie Sleigh

10:20 – 10:35

O4

Sixty years of diving medicine in CRIS-UTH. A review of 1000 disbaric diving injuries.
Jordi Desola, Olga Enciso, Nadia Hamzeh, Evangelos Papoutsidakis

10:35 – 10:50

O5

Pulmonary barotrauma during a wreck recovery happened in 1654.
Jordi Desola

10:50 – 11:20

Coffee Break

11:20 – 13:00

Scientific Session II: HBOT/DFU/Carbon Monoxide poisoning

Session chairs: Bengusu Mirasoglu, Ole Hyldegaard

11:20 – 11:40

O6

Keynote lecture: The effectiveness and safety of hyperbaric oxygen therapy for chronic diabetic foot ulcers: an overview of systematic reviews with de novo meta-analysis of randomized controlled trials.

Miloslav Klugar, Lucia Kantorová, Michal Hájek, Andrea Pokorná, Tereza Vrbová, Michal Dubský, Vladimíra Fejfarová, Miroslav Koliba, Petr Krawczyk, Veronika Wosková, Jitka Klugarová

11:40 – 11:55

O7

Hyperbaric oxygen therapy for diabetic foot ulcers with leg ischemia (DIONYSIUS trial)

Joost Meijering, Robin Brouwer, Rutger Lallieu, René Bol Raap, Rigo Hoencamp, Mark Koelemay, Rob van Hulst, Dirk Ubbink

11:55 – 12:10

O8

What is the perspective of who pays for the HBOT for wound care?

Pasquale Longobardi, Nedjoua Belkacem, Chiara Bissoni

12:10 – 12:25

O9

Cost effectiveness of hyperbaric oxygen therapy for the treatment of ischaemic diabetic foot ulcers.

Robin Brouwer, Nick van Reijen, Rigo Hoencamp, Rob van Hulst, Marcel Dijkgraaf, Mark Koelemay, Dirk Ubbink

12:25 – 12:40

O10

Twenty-one year overview of HBO treatment of Carbon Monoxide poisoning : refining the indication using a diagnosis and management algorithm.

William Portier, Nathalie Mouton, Yoerik Neiryneck, Dirk Caers, Peter Germonpre

12:40 – 12:55

O11

Forty years of hyperbaric medicine in CRIS-UTH. A review of 4500 cases of carbon monoxide poisoning.

Jordi Desola

13:00 – 14:00		Lunch Break / Poster Exhibition
14:00 – 15:30		Scientific Session III: Diving/DCS/Preconditioning
Session chairs: František Novomeský, Arne Sieber		
14:00 – 14:15	O12	Influence of prehospital management on the outcome of spinal cord decompression sickness in scuba divers. <i>Jean Eric Blatteau, Sophie André</i>
14:15 – 14:30	O13	Another Preconditioning Before diving : minitrampoline. <i>Costantino Balestra</i>
14:30 – 14:45	O14	Eccentric arm work 24 hours prior to hypobaric exposure increases presence of circulating bubbles. <i>Frode Gottschalk, Ola Eiken, Antonis Elia, Mikael Gennser</i>
14:45 – 15:00	O15	Diving into Decompression Sickness resistant rats gene expression through a miRnome / transcriptome crossed approach. <i>François Guerrero, Emmanuel Guerrero, Anthony Guernec, Jérémy Orsat</i>
15:00 – 15:15	O16	Transthyretine gene expression and decompression sickness. <i>François Guerrero, Jérémy Orsat, Anthony Guernec, Cédric Le Maréchal, Vianney Pichereau</i>
15:15 – 15:30	O17	Is Acute Bone Necrosis (ABN) observed on patients with Osteoarticular Decompression Sickness (OADS) a new entity? <i>Jorge Calderon, Evangelos Papoutsidakis, Michel Cabrera, Erwin Ojeda</i>
15:30 – 16:00		Coffee Break
16:00 – 17:35		Scientific Session IV: HBOT/Experimental
Session chairs: Shai Efrati, Miroslav Rozložník		
16:00 – 16:20	O18	Keynote lecture: „From an idea up to an experiment well done” <i>Predrag Brkič</i>
16:20 – 16:35	O19	Hyperbaric oxygenation reduces death of immature neurons in the adult hippocampal dentate gyrus following brain injury. <i>Predrag Brkič, Rada Jeremic, Sanja Dacic, Marina Djelic, Sanja Pekovic</i>
16:35 – 16:50	O20	Effects of Hyperbaric Oxygen Therapy on Mitochondrial Respiration and Physical Performance in Middle-Aged Athletes: A Blinded, Randomized Controlled Trial. <i>Amir Hadanny, Shai Efrati</i>
16:50 – 17:05	O21	The Effect of Hyperbaric Oxygen Therapy (HBOT) on Sports Performance and Recovery. <i>Evangelos Papoutsidakis</i>
17:05 – 17:20	O22	Hyperbaric oxygen treatment in early phase is effective after muscle contusion injury because VEGF and bFGF induction by nitric oxide promotes angiogenesis and muscle regeneration. <i>Naoki Yamamoto</i>
17:20 – 17:35	O23	DNA damage, apoptosis and repair in primary and malignant osteoblastic cells after hyperbaric hyperoxia. <i>Frauke Tillmans, Andreas Koch, Nele Schönrock, Susanne Sebens, Wataru Kähler, Sebastian Klapa, Bente Rieger, Harry Scherthan</i>

Friday, September 2nd

09:00 – 10:45		Scientific Session V: HBOT/TBI/Clinical effects
Session chairs: Jordi Desola, Evangelos Papoutsidakis		
09:00 – 09:15	O24	Hyperbaric oxygen therapy compared to pharmaceutical intervention in fibromyalgia patients following traumatic brain injury: A prospective, randomized two active arms trial. <i>Shai Efrati, Jacob N Ablin, Merav Catalogna, Erez Lang, Valeri Alush, Keren Doenyas-Barak, Shachar Finci, Nir Polak, Gregory Fishlev, Calanit Korin, Rachel Yehudit Tzidky, Oshra Meir Genuth</i>

09:15 – 09:30	O25	The effects of hyperbaric oxygen therapy in children with post-concussion syndrome: randomized controlled trial. <i>Amir Hadanny, Shai Efrati</i>
09:30 – 09:45	O26	Could delayed HBOT be effective in severe traumatic brain injury (TBI)? <i>Pasquale Longobardi, Claudio Costa, Francesco Fontana, Pietro Marano, Chiara Aramini, Paolo Lega, Adriana Pretolani, Chiara Bissoni, Maddalena Vassura</i>
09:45 – 10:00	O27	Use of Hyperbaric Oxygen Therapy in infants: experience of two tertiary health care centers <i>Bengusu Mirasoglu, Kubra Ozgok Kangal</i>
10:00 – 10:15	O28	Hyperbaric Oxygen Therapy with Iloprost Improves Digit Salvage in Severe Frostbite Compared to Iloprost Alone. <i>Marie-Anne Magnan, Angele Gayet-Ageron, Pierre Louge, Frederic Champly, Thierry Joffre, Christian Lovis, Rodrigue Pignel</i>
10:15 – 10:30	O29	A retrospective analysis of patients treated with hyperbaric oxygen therapy for late radiation tissue injury of the vagina. <i>Michelle Möring, Anne Valkenburg, Nicoline Schuur- van 't Hof, Heleen Beekhuizen, Nina Lansdorp</i>
10:30 – 10:45	O30	Stem Cell Mobilization by Nominal Hyperbaria. <i>KJ MacLaughlin, Rudolf Braun, Jacob Lamers, Matthew Marcou, Marlowe Eldridge</i>
10:45 – 11:15	Coffee Break	
11:15 – 13:00	Scientific Session VI: Diving/Working/Combat/Saturation	
	Session chairs: Jean-Eric Blatteau, Radek Pudil	
11:15 – 11:30	O31	Diving medical examination before return to diving after COVID-19 – clinical observation study on divers and combat swimmers of the Bundeswehr. <i>Andreas Koch, Luisa Graue, Maike Körner, Sebastian Klapa, Wataru Kähler, Bente Rieger</i>
11:30 – 11:45	O32	Development of FTD for working divers in Sweden in relation to EDTC-Swedish law by the covid19 pandemic. <i>Mats Hagberg</i>
11:45 – 12:00	O33	Capsule Project: a physiological survey during 3 days shallow saturation dives in a very limited space. <i>François Guerrero, Emmanuel Dugrenot, Erwan L'Her, Emmanuel Gouin, Under The Pole Consortium, Jean-Eric Blatteau</i>
12:00 – 12:15	O34	New tunnel trimix saturations: design and validation of the excursions of the Hong Kong TMCLK project. <i>P Imbert, A Sidali</i>
12:15 – 12:30	O35	Optimisation of Gradient Factor Selection in Military Diving. <i>Sven De Ridder, Nathalie Pattyn, Xavier Neyt, Peter Germonpré</i>
12:30 – 12:45	O36	Multifrequency bioimpedance to evaluate oxidative/inflammatory stress related to saturation diving: a field study. <i>JP Imbert, A Letourneur, L Balesta, J Deter, C Balestra</i>
12:45 – 13:00	O37	Full-face snorkel masks safety during rest and exercise. <i>Hanna van Waart, Janneke Grundemann, Xavier Vrijdag, Nicole Wong, Nicholas Gant, Simon Mitchell</i>
13:00 – 14:00	Lunch Break / Poster Exhibition	
14:00 – 15:40	Scientific Session VII: Special Session/Hypobaric/Aviation	
	Session chairs: Mikael Gennser, François Guerrero	
14:00 – 14:30	O38	Hypobaric hypoxia in aeromedical training – fundamentals, methods and practical aspects. <i>Boris Oniščenko</i>
14:30 – 14:55	O39	Explosive Decompression and rare pulmonary barotrauma. <i>Jakub Tlapák</i>
14:55 – 15:20	O40	Ophthalmological challenges of the flight and underwater environment. <i>Veronika Poláčková</i>

15:20 – 15:40	O41	Underwater Analog Space Missions. <i>Miroslav Rozložník</i>
15:40 – 16:10	Coffee Break	
16:10 – 17:55	Scientific Session VIII: HBOT/Indications/COVID	
	Session chairs: Predrag Brkić, Amir Hadanny	
16:10 – 16:25	O42	Hyperbaric Oxygen in Lower Limb Trauma – a multi-centre randomized controlled trial. <i>Ian Millar, Folke Lind, Karl-Ake Jansson, Michal Hajek, David Smart, Tiago Fernandes, Rosemary McGinnes, Owen Williamson, Russell Miller, Catherine Martin, Belinda Gabbe, Paul Myles, Peter Cameron</i>
16:25 – 16:40	O43	Influence of applied pressure in HBOT SSNHL therapy on the rate of therapeutic gain of patients in particular frequency ranges. <i>Zdenka Krajičovičová, Vladimír Meluš, Rastislav Zigo, Barbora Košťaliková</i>
16:40 – 16:55	O44	Hyperbaric oxygen therapy induces neuroplasticity and improve neurocognitive functions and symptoms of post-COVID-19 condition: randomized, double blind, sham-controlled clinical trial. <i>Shai Efrati, Shani Zilberman-Itskovich, Merav Catalogna, Efrat Sasson, Karin Elman-Shina, Amir Hadanny, Erez Lang, Shachar Finci, Nir Polak, Gregory Fishlev, Calanit Korin, Ran Shorer, Yoav Parag</i>
16:55 – 17:10	O45	The Effects of hyperbaric oxygen therapy on recovery from the long COVID-19 condition. <i>Dragana Ivkovic, Branislav D. Stefanovic, Branislava Stefanović, Vesna Koletic, Zeljka Jelenkovic, Dejana Savic, Dejana Stanisavljevic, Mihailo Stjepanovic, Spasoje Popevic, Natasa Mujovic, Predrag Brkić, Jelena Cvejic</i>
17:10 – 17:25	O46	The effects of hyperbaric oxygenation on lung diffusion capacity among the patients with post COVID-19 condition, a pilot study. <i>Dragana Ivkovic, Mihailo Stjepanovic, Spasoje Popevic, Branislav D. Stefanovic, Branislava Stefanović, Vesna Koletic, Zeljka Jelenkovic, Dejana Savic, Dejana Stanisavljevic, Natasa Mujovic, Predrag Brkić, Jelena Cvejic</i>
17:25 – 17:40	O47	Safety of Hyperbaric Oxygen Treatment for Post COVID-19 condition. Results from the interim safety analysis of the randomized placebo-controlled double-blind trial (HOT-LoCO). <i>Sara El Gharbi, Anders Kjellberg, Adrian Hassler, Emil Boström, Sarah Al-Ezerjawi, Jan Kowalski, Sergiu-Bogdan Catrina, Kenny Rodriguez-Wallberg, Michael Runold, Marcus Stahlberg, Judith Bruchfeld, Malin Nygren-Bonnier, Peter Lindholm</i>
17:40 – 17:55	O48	Clinical and immunological effects of Hyperbaric Oxygen Therapy (HBOT) in severe non-intensive COVID-19 patients: interim analysis of a Randomized Control Trial. <i>Jacek Kot, Jacek Siewiera, Klaudia Brodaczevska, Natalia Jermakow, Arkadiusz Lubas, Krzysztof AP, Aleksandra Majewska</i>

Saturday, September 3rd

09:30 – 10:30	EUBS General Assembly	
10:30 – 11:50	Scientific Session IX: Diving/Apnoea Diving	
	Session chairs: Lesley Blogg, Gerardo Bosco	
10:30 – 10:50	O49	Keynote lecture: The effect of scuba diving and freediving on myocardial function: physiological or pathophysiological response? <i>Radek Pudil</i>
10:50 – 11:05	O50	Effects of freediving depth on diving heart rate and arterial oxygen desaturation. <i>Erika Schagatay, Craig Staunton, Arne Sieber, Eric Mulder</i>
11:05 – 11:20	O51	Effects of hyperventilation on oxygen kinetics, apnea breaking point, diving response, and spleen contraction during serial static apneas. <i>Frank Pernet, Pontus Bergenhed, Pontus Holmström, Eric Mulder, Erika Schagatay</i>
11:20 – 11:35	O52	Is cardiac arrhythmia contributing to blackout in breath-hold diving? <i>Erika Schagatay, Eric Mulder, Lukas Längle, Frank Pernet, Arne Sieber</i>
11:35 – 11:50	O53	Taravana syndrome after a breath hold diving with a underwater thruster, an in situ bubble formation encephalopathy ? <i>Romain Roffi, Arnaud Druelle, Jean Morin, Henri Lehot, Jean-Eric Blatteau</i>

11:50 – 12:20		Coffee break
12:20 – 13:50		Scientific Session X: Miscellaneous
		Session chairs: Erika Schagatay, Constantino Balestra
12:20 – 12:35	O54	Does the most potent Lung Surfactant Dipalmitoylphosphatidylcholine pose a risk for decompression illness in diving mammals? <i>Ran Arieli</i>
12:35 – 12:50	O55	Repeated HBO2 Exposure Increases Skeletal Muscle Oxidative Stress and Disrupts Calcium Handling. <i>Heath G. Gasier, Hagir B. Suliman</i>
12:50 – 13:05	O56	Improving the safety of submarine escape and rescue from shallow depth using a 90-kg sheep decompression model. <i>Sobakin AS, Lamers JJ, Pegelow DF, Eldridge MW.</i>
13:05 – 13:20	O57	Endothelial injury in diving: Atomic Force-, Electronic- and Light-microscopy study of ovine decompressed blood vessels. <i>Ran Arieli</i>
13:20 – 13:35	O58	Immersion Pulmonary Edema in Tropical Waters – A Systematic Review. <i>Tan JKH, Lim SC, Dhillon BK, Kwek JWM, Law DZ</i>
13:35 – 13:50	O59	HYMON: a new, innovative, interactive online educational platform for education of hyperbaric medicine <i>Miroslav Rozložník, Michal Hájek, Dittmar Chmelář, Miloslav Klugar, Radek Pudil, Zdenka Krajčovičová, Vladimír Meluš</i>
13:50 – 14:00		Closing Ceremony
14:00		Lunch

46th Annual EUBS Conference

Scientific Program

POSTER SESSION

P01

Differential diagnosis between stroke and neurological decompression sickness.
Jean-Eric Blatteau, Alexandra Bourron, Pierre Louge, Emmanuel Gempp, Sébastien de Maistre

P02

Datalogger for Assessment of Physiological Parameters of Divers.
Arne Sieber, Irfan Sehic, Matthias Binder, Eric Mulder, Erika Schagatay

P03

Deep rebreather dive results in high-grade venous gas emboli arterialization without clinical decompression sickness symptoms.
Frauke Tillmans, Rhiannon Brenner, Gabriel Graf, Stefanie Martina, Caitlyn Kulakowski, Grant Dong, Catherine Harris, Virginie Papadopoulou, Robert Furberg, James Chimiak

P04

DAN looks at fitness to dive and vaccination results in American and non-American divers.
Frauke Tillmans, Elizabeth Helfrich, Matias Nochetto, Camilo Saraiva, Peter Lindholm, James Chimiak, Rhiannon Brenner

P05

The critical flicker fusion frequency: how reliable?
Sven Dreyer, Thomas Muth, Jochen Schipke

P06

Assessing critical flicker frequency: which confounders?
Jochen D Schipke, Thomas Muth

P07

An echo from the past: building a Doppler repository for big data in diving research.
S. Lesley Blogg, Rachel Lance, Frauke Tillmans, Kaighley Brett, Fethi Bouak, Laurens Howle, Koshiar Medson, Richard Moon, Virginie Papadopoulou, Peter Lindholm

P08

Arterial gas embolism associated with atypical dive profile.
Elif Ebru ÖZER

P09

Show O₂-stress-adapted human cells different cell effects after exposure to indirect ionizing radiation (UV-A)?
Andreas Koch, Wataru Kähler, Ole Westphal, Rieke Scharbrodt, Tobias Schramm, Harry Scherthan, Sebastian Klapa

P10

Breath-Hold Diving and Mechanisms of Hypoxemia.
Gerardo Bosco, Matteo Paganini, Luca Martani, Giacomo Garetto, Ennio Talamonti, Tommaso Giacom, Danilo Cialoni, Enrico Camporesi, Richard Moon, Stephen Thom, Christopher McKnight

P11

Normobaric oxygen breathing directly after ascent reduces occurrence of venous gas emboli.
Mikael Gennser, Lesley Blogg, Anders Rosén

P12

Novel sensor for Assessment of Involuntary Breathing Movements (Respiratory Contractions) during Breath-hold Diving
Arne Sieber, Eric Mulder, Frank Pernet, Irfan Sehic, Erika Schagatay

P13

Open exhaust failure affecting damaged or contaminated Avox Pressur-Vak BIBS
Ian Millar, Andrew Smale, Paul Axton

P14	<p>How to survive 33 min after the umbilical of a saturation diver severed at a depth of 90msw? – a detailed case report <i>Jochen D Schipke, Sven Dreyer, Andreas Deussen, Dietmar Berndt</i></p>
P15	<p>Theo Mavrostomos before the record dive: I can do this! 30 years anniversary of an onshore dive to 701 m. <i>Jochen D Schipke, Bettina Floerchinger</i></p>
P16	<p>Swedish scuba-divers' opinions on the diving medical examination. <i>Georgios Sidiras, Damianos Tzavellas, Peter Lindholm</i></p>
P17	<p>Medical consultations of the Swedish Sportsdiving Federation during 2020–2021. <i>Georgios Sidiras, Anna Haas Stjernlöf, Hans Örnhagen</i></p>
P18	<p>Individual factors of decompression stress in sports Scuba divers and its estimation and self-detection for improved diving safety. <i>Andreas Fichtner</i></p>
P19	<p>Case series of unusual neurologic symptoms after scuba diving training sessions, in the context of SARS-COV2 preventive measures <i>Lucile Daubresse, Jordan Amara, J.E. Blatteau, M. Grau, S. De Maistre, G. Cassourret, H. Lehot, G. Texier</i></p>
P20	<p>Changes in Diver Whole Blood RNA Gene Expression Following Hyperbaric Oxygen Exposures. <i>David M Fothergill, Tiffany Oliver, Dawn N Kernagis</i></p>
P21	<p>Heart rate variability from underwater spiroergometry: how meaningful? <i>Jochen D Schipke, Fabian Möller, Elena Jacobi, Thomas Muth, Andreas Koch, Uwe Hoffmann</i></p>
P22	<p>First evaluation of the GREENFLASH solid state O2 sensor for rebreather diving. <i>Arne Sieber, Viktoria Fehleisen, Irfan Sehic, Matthias Binder, Inmaculada Medina Bulo</i></p>
P23	<p>Dopamine/BDNF loss Underscores Narcosis Cognitive Impairment in Divers: a Proof of Concept in a dry condition. <i>Gerardo Bosco, Tommaso Antonio Giacom, Nazareno Paolucci, Alessandra Vezzoli, Cinzia Della Noce, Matteo Paganini, Jacopo Agrimi, Giacomo Garetto, Danilo Cialoni, Natalie D'Alessandro, Enrico M Camporesi and Simona Mrakic-Spota</i></p>
P24	<p>Plasma proteomic changes following prolonged nitrox30 and hyperbaric oxygen chamber dives. <i>David M. Fothergill, Austin Ford, Brianna O'Brien, Duran Gonzalez, Jacob Bowie, Neranjan Perera, Elaine C. Lee</i></p>
P25	<p>Evaluation of the Physiological Vascular Response to HBO by Pulse Transit Time. <i>Sven Dreyer, Svenja Meier, Sesgül, Dirk Berben</i></p>
P26	<p>Epithelium-off and Epithelium-on Corneal Cross-Linking with Hyperbaric Oxygen: Increased Corneal Stability? <i>Sven Dreyer, Thesesa Streit, Jule Schmiedel, Gerd Geerling, Theo Seiler, Joana Witt, Johannes Menzel-Severing</i></p>
P27	<p>Effect of Hyperbaric Oxygen Therapy on the Differentiation and Function of Osteoporosis-Related Parameters in Osteoblasts of Patients with Normal Bone Density, Osteopenia or Osteoporosi. <i>S Dreyer, P Flender, V Grotheer, L Oezel, D Stüwe, K Schultz, U Maus, J Windolf, J Schneppendahl</i></p>
P28	<p>Modeling of dopamine homeostasis under hyperoxic and hyperbaric conditions. <i>Rune Kleppe, Christine Komano, Torunn Eide, Sudarshan Patil, Marit Gronning, Aurora Martinez, Peter Ruoff, Jan Haavik, Asbjorn Svardal, Rune Djurhuus</i></p>
P29	<p>Immunohistochemical expression of heme oxygenase-1, 4-hydroxynonenal and hypoxia inducible factors (1 alfa, 1 beta, 2 alfa) after HBO preconditioning in postischemic acute kidney injury induced in spontaneously hypertensive rats. <i>Sanjin Kovacevic, Milan Ivanov, Maja Zivotic, Zoran Miloradovic, Predrag Brkic, Rada Jeremic, Danijela Karanovic, Una Jovana Vujic, Nevena Mihailovic Stanojevic, Djurdjica Jovovic, Jelena Nesovic Ostojic</i></p>
P30	<p>Volatile organic compounds in breath after a hyperbaric heliox treatment table (COMEX-30). <i>Feiko J.M. de Jong, Thijs T. Wingelaar, Paul Brinkman, Pieter-Jan A.M. van Ooij, Anke-Hilse Maitland-van der Zee, Marcus W. Hollmann, Rob A. van Hulst</i></p>

P31	Protocol HOTPANTS trial. <i>Ellen Kop, Errol Prens, Pim Aarts, Maarten Hoogbergen, Nina Lansdorp.</i>
P32	Hyperbaric Oxygen Treatment and advanced woundcare in a 38 year old woman with complex wounds and Mixed Connective Tissue Disease. <i>Ellen Kop</i>
P33	Burns of the lower airway and treatment with hyperbaric oxygen therapy (HBOT): a case study. <i>Evangelos Papoutsidakis, Adriana Aguirre Alvarado, Juan Carlos Chagoya Bello, Irving Ivan Morales Pogoda, Dalila Espina Martinez,</i>
P34	Emergency activity of the hyperbaric center of Tunis during the pandemic years. <i>I. Mezoughi, H. Gharsallah</i>
P35	The Hippocratic Oath <i>Jordias Desolapides, Carmenidas Pardinaton, Evangelos Papoutsidakis</i> <i>CRIS-UTH – The Hyperbaric Therapy Unit of Barcelona</i>
P36	Advanced hyperbaric critical care provided in a monoplace chamber – a technical report. <i>Ian Millar, Theo Tsouras, Andrew Smale, Jason Watterson, Bridget Devaney, Lloyd Roberts</i>
P37	Extra-corporeal membrane oxygenation under hyperbaric conditions. <i>Ian Millar, Lloyd Roberts, Theo Tsouras</i>
P38	Hand hygiene knowledge for Health-Care Workers in Hyperbaric Facilities. <i>Angeliki Chandrinou, Chris Bryan, Damianos Tzavellas, Konstantina Gaitanou, Manuel Preto, Miguel Parceiro</i>
P39	The use of the European Structural and Investment Fund (ESF) in the implementation of HBOT – project – identification of benefits and risks. <i>Zdenka Krajčovičová, Iveta Matišáková, Vladimír Meluš, Nikoleta Poliaková, Katarína Kašlíková</i>
P40	Continuing Professional Development Program in Hyperbaric Oxygen Therapy and Diving Accidents using a blended learning model of University of Thessaly in Greece. <i>Angeliki Chandrinou, Maria Malliarou, Konstantina Gaitanou, George Fildissis</i>
P41	Hyperbaric Medicine’s institutional framework. A small guide for lawmakers and a calling for survey. <i>Papoutsidakis Evangelos, Polyzois Marios</i>
P42	Effects of adjunctive hyperbaric oxygen in the treatment of Necrotizing soft tissue infections <i>Nuno Silva, Carlos Melo Bento, Paula Ferreira</i>
P43	Fast track Protocol for Diving Emergencies in the Azorean Archipelago <i>João Leandro de Medeiros, Paula Ferreira, Melina Andrade</i>