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2ND INTERNATIONAL CONFERENCE ON HYPERBARIC OXYGEN THERAPY AND THE BRAIN

Nov 19-21, 2015 | Hotel Ganim, Dead Sea, Israel

For registration - www.reg.co.il/ISHDM2015

Thursday, Nov 19

- 09:00 Open registration
- 10:45 – 11:00 Welcome and Opening remarks.
- 11:00 – 11:30 **Invited opening lecture: Oxygen and the brain: with special reference to the treatment of multiple sclerosis (MS) patients**
Philip James, Dundee, Scotland
Introducing by Yehuda Melamed
- 11:30 – 13:30 **Session I: Traumatic Brain Injury (TBI) and Stroke (CVA)**
Chairman: Yehuda Melamed
- 11:30 – 12:00 **Invited lecture: Hyperbaric oxygen for post stroke and TBI: Updated clinical review and perspective on patients' selection and optimal protocol**
Shai Efrati, Tel-Aviv, Israel
- 12:00 – 12:30 **Invited lecture: Protective effects of repetitive long-term hyperbaric oxygen treatment following experimental traumatic brain injury in rats**
Marek Molcanyi, Graz, Germany
- 12:30 – 12:45 Hyperbaric oxygen can induce angiogenesis in patients suffering from prolonged post concussion syndrome due to traumatic brain injury
Sigal Tal et al., Tel-Aviv, Israel
- 12:45 – 13:00 Functional / anatomic brain volume mismatch can serve as a predictive parameter for post stroke patient's candidacy for hyperbaric oxygen therapy
Haim Golan et al., Tel-Aviv, Israel





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- 13:00 – 13:15 Hyperbaric oxygen therapy in pediatric patients at the Centre of Hyperbaric Medicine Ostrava in the years 2007- 2011: Treatment of CNS disorders
Michal Hajek et al. Ostrava, Czech Republic
- 13:15 – 13:30 Efficacy of hyperbaric oxygen therapy in ischemic stroke early rehabilitation and evaluation of its health economics.
XY Kuang_and PT Xiao, Xiangya, China
- 13:30 – 13:45 General discussion
- 13:45 – 15:00 Lunch and rooms distribution
- 15:00 – 17:00 **Session II: Cognitive Functions and Dementia**
Chairman: Moshe Kolikovski
- 15:00 – 15:30 *Invited lecture: **The role of cerebrovascular disease in dementia: Potential benefits by hyperbaric oxygen therapy***
Michal Schnaider Beeri, New York, USA
- 15:30 – 15:45 Hyperbaric oxygen can induce neuroplasticity and improve cognitive function of patients suffering from anoxic brain damage
Amir Hadanny et al., Tel-Aviv, Israel
- 15:45 – 16:00 Hyperbaric oxygen therapy ameliorates the pathophysiology of Alzheimer's disease two mouse models
Ronit Shapira et al. Tel-Aviv, Israel
- 16:00 – 16:15 The Neurobary system of cognitive dysfunctions treatment in patients after TBI and stroke
Alina Borkowska, Bydgoszcz, Poland
- 16:15 – 16:30 Enhancing HBOT - The additive value of cognitive training: Feasibility of cognitive rehabilitation alongside HBOT
Gil Suzin, Tel-Aviv, Israel





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- 16:30 – 16:45 Hyperbaric oxygen therapy for brain injury, cerebral palsy, and stroke: Analysis of 69 patients treated and their unmet needs
Pasquale Longobardi et al. Ravenna, Italy
- 16:45 – 17:00 General discussion
- 17:00 – 17:30 Coffee break
- 17:30 – 19:00 **Session III: Post Traumatic Stress Disorder (PTSD) and Schizophrenia**
Chairman: Eli Hyman
- 17:30 – 18:00 *Invited lecture: TBI vs. PTSD- Neuropsychological and Psychiatric aspects*
Eliezer Witztum, Beer-Sheva, Israel
- 18:00 – 18:30 *Invited lecture: Healing PTSD due to childhood sexual abuse by HBOT and psychotherapy: A prospective clinical trial*
Rachel Lev-Wiesel, Haifa, Israel
- 18:30 – 18:45 Normobaric hyperoxia treatment of schizophrenia
Haim Belmaker, Beer-Sheva, Israel
- 18:45 – 19:00 General discussion
- 19:30 Dinner at the hotel
- 21:00 Social event: 'SPA cocktail frenzy'





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Friday, Nov 20

08:30 – 10:30 **Session IV: Chronic Pain Syndromes and Sudden Hearing Loss**

Chairman: Zemer Wang

08:30 – 09:00 *Invited lecture: Fibromyalgia syndrome - Clinical perspective*

Dan Buskila, Beer-Sheva, Israel

09:00 – 09:30 *Invited lecture: Fibromyalgia syndrome - Pathophysiological perspective of central nervous system sensitization*

Jacob N Ablin, Tel-Aviv, Israel

09:30 – 10:00 *Invited lecture: Hyperbaric oxygen for pain syndromes induced by nervous system pathology*

Shai Efrati, Tel-Aviv, Israel

10:00 – 10:15 Hyperbaric oxygenation therapy for idiopathic sudden sensorineural hearing loss

Yoav Yanir, Haifa, Israel

10:15 – 10:30 Hyperbaric oxygen therapy in the treatment of sudden hearing loss (SHL) from inner ear barotrauma (IEB)

Ferruccio Di Donato, Bologna, Italy

10:30 – 11:00 Coffee Break

11:00 – 13:00 **Session V: Childhood Cerebral Palsy (CP)**

11:00 – 11:10 *Opening remarks: Hyperbaric oxygen therapy for cerebral palsy in childhood: The why and when debate*

Coordinator: Natan Cohen, Netania, Israel

11:10 – 11:30 *Invited lecture: Cerebral palsy: understanding it, preventing it*

Haim Bassan, Tel-Aviv, Israel





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- 11:30 – 11:50 *invited lecture:* **Hyperbaric oxygen therapy in cerebral palsy: is it logical and effective?**
Asher Ornoy, Jerusalem, Israel
- 11:50 – 12:10 *Invited lecture:* **HBOT for children with cerebral palsy: Too many questions to be answered about current knowledge and on a developing, very vulnerable child and family**
Dan Waisman, Haifa, Israel.
- 12:10 – 12:30 *Invited lecture:* **Oxygen treatment for CP children: defining expectations**
Philip James, Dundee, Scotland.
- 12:30 – 12:50 Panel and open discussion
- 12:50 – 13:00 *Closing remarks:* Outlines for future investigation
Natan Cohen, Netania, Israel
- 13:00 – 14:00 Lunch Break
- 14:00 – 16:15 **Session VI: Diving and Pressure Physiology**
Chairman: Pinchas (Pinny) Halpern
- 14:00 – 14:15 The Israeli Diving Authority: 40 years of data on decompression sickness
Adam Konstantinovskiy, Jerusalem, Israel
- 14:15 – 14:30 Ethical and clinical dilemma in the practical treatment of DCS
Zemer Wang, Eilat, Israel
- 14:30 – 14:45 Bubble size on detachment from the luminal aspect of ovine large blood vessels after decompression: the effect of mechanical disturbance
Ran Arieli et al, Haifa, Israel





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- 14:45 – 15:00 An electron microscope study of the effects of decompression on the spinal cord and hippocampus in the rat: preliminary results
Dror Ofir et al. Haifa, Israel
- 15:00 – 15:15 Diffusion tensor MRI of CNS decompression illness in UW sheep model
Aleksey Sobakin et al. Madison, Wisconsin, USA
- 15:15 – 15:30 The enigma of the dichotomic pressure response of GluN1-4a/b splice variants of NMDA receptor: Statistical analysis
Alice Bliznyuk et al. Beer-Sheva, Israel
- 15:30 – 15:45 Does the protection against CNS-oxygen toxicity induced by different environmental stressors share similar pathways?
Mirit Eynan et al. Haifa, Israel
- 15:45 – 16:00 The effect of methylphenidate on the risk of oxygen toxicity in mice exposed to hyperbaric oxygen
Yinnon Matsliah, Haifa, Israel
- 16:00 – 16:15 ISHDM update on national accreditation of Diving Physician
Yoav Yanir, secretary
- 19:00 Dinner at the hotel
- 20:30 – 21:00 *Special presentation: **Diving at the Dead Sea!***
Bresler Avraham and David Bibi Roubi, Israel
- 21:00 – 22:00 *Cultural event: **World folklore music***
Tal Kravitz





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Saturday, Nov 21

09:00 – 10:00 Society professional and business meeting

10:00 Concluding remarks

Free activities: Dead-sea beach, optional tours to Masada and David canyon - Ein-Gedi.

16:00 Room check out

