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
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

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
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'
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
invited lecture: Hyperbaric oxygen therapy in cerebral palsy: is it logical and effective?
Asher Ornoy, Jerusalem, Israel

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.

Invited lecture: Oxygen treatment for CP children: defining expectations
Philip James, Dundee, Scotland.

Panel and open discussion

12:10 – 12:30
Closing remarks: Outlines for future investigation
Natan Cohen, Netania, Israel

Lunch Break

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 Konstantinovsky, 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
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

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
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