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
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

Efficacy of hyperbaric oxygen therapy in ischemic stroke early rehabilitation and evaluation of its health economics.
XY Kuang and PT Xiao, Xiangya, China

General discussion

Lunch and rooms distribution

Session II: Cognitive Functions and Dementia
Chairman: Moshe Kulikovski

Invited lecture: The role of cerebrovascular disease in dementia: Potential benefits by hyperbaric oxygen therapy
Michal Schnaider Beeri, New York, USA

Hyperbaric oxygen can induce neuroplasticity and improve cognitive function of patients suffering from anoxic brain damage
Amir Hadanny et al., Tel-Aviv, Israel

Hyperbaric oxygen therapy ameliorates the pathophysiology of Alzheimer’s disease two mouse models
Ronit Shapira et al. Tel-Aviv, Israel

The Neurobary system of cognitive dysfunctions treatment in patients after TBI and stroke
Alina Borkowska, Bydgoszcz, Poland

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 and Ella Holtzman, 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)**

Coordinator: Natan Cohen

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

Closing remarks: Outlines for future investigation
Natan Cohen, Netania, Israel

Lunch Break

Session VI: Diving and Pressure Physiology
Chairman: Pinchas (Pinny) Halpern

The Israeli Diving Authority: 40 years of data on decompression sickness
Adam Konstantinovsky, Jerusalem, Israel

Ethical and clinical dilemma in the practical treatment of DCS
Zemer Wang, Eilat, Israel

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
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