



DAY 1 - Friday, August 18, 2017



REGISTRATION: **STARTS AT 7:00AM** LOCATION: **Expo Hall**
7:00am – 8:00am Breakfast

Day 1 Morning Theme: Neuroscience and Clinical Applications

8:00am – 8:15am **Opening Remarks** **Edward Fogarty, M.D. and Jeremy Phillips**

8:15am - 9:30am **TBI: No Need to Die! A Review of HBOT in Acute Severe Traumatic Brain Injury with an Extension to Acute Concussion, and an Update on Chronic Mild TBI.** **Paul Harch, M.D. (Keynote)**

This lecture will review the scientific literature/evidence of HBOT in acute severe TBI and conclude that this constitutes some of the strongest evidence of any HBOT indication. Based on Evidence-Based Medicine principles Dr. Harch will conclude that there is no excuse for anyone in the United States to die of acute severe TBI without a trial of HBOT. The science in this literature will be used to argue for the collateral application to acute concussion. The lecture will conclude with a short update on the literature and evidence for HBOT in chronic mild TBI persistent post-concussion syndrome based on the principles of oxygen and pressure dosing.

9:30am - 10:00am **HBOT in Cerebral Palsy: What do we know – Part 1** **Pierre Marois, M.D.**

Many studies have been conducted to evaluate the efficacy of HBOT in CP. Unfortunately up to now, in most studies without a control group, it has been difficult to evaluate the extent of the positive effects. We are now able to compare the measured progress in these studies with the expected natural evolution of children with CP.

10:00am – 10:30am **Morning Coffee Break**

10:30am – 11:15am **HBOT in Cerebral Palsy: What do we know – Part 2** **Pierre Marois, M.D.**

11:15am – 12:00pm **HBOT and Robotics in Cerebral Palsy: Pediatrics and Adults** **Malcolm R. Hooper, D.C.**

Mal Hooper has been at the cutting edge of HBOT for over 20-years treating complex neurologic disorders including Cerebral Palsy. The constant drive to improve patient outcomes lead to the bold vision in 2006 of combining HBOT and Robotics to drive neuroplasticity and functional outcomes. The combination effect is not simply 2 separate therapies but synergistically the effects are dynamic opening the path for further science and research. Mal will present the science evidence and the future direction of HBOT and Robotic Rehabilitation – Centres Of Excellence.

12:00pm – 12:30pm **The Challenges of Neuroplasticity in Modern Times** **EXPERT PANEL DISCUSSION**
• **Paul Harch, M.D.**
• **Pierre Marois, M.D.**
• **Malcolm Hooper, D.C.**

12:30pm – 1:00pm **Non-CME Sponsored Lecture** **Speaker - TBC (Non-CME Lecture)**

1:00pm – 2:15pm *Kindly sponsored by* **Lunch Break**





DAY 1 - Friday, August 18, 2017



Expo Hall

1:00pm – 2:15pm **Lunch Break**

Day 1 Afternoon Theme: Oncology and HBOT

2:15pm – 3:30pm **The Latest Overview on the Use of Hyperbaric Medicine for Cancer** **Dominic D’Agostino, Ph.D.**

3:30pm – 4:00pm **Clinical Oncology and Hyperbaric Medicine: Practice and Research Based Updates: 2017 - Part 1** **Paul Anderson, N.M.D.**

4:00pm – 4:30pm **Afternoon Break**

4:30pm – 5:15pm **Clinical Oncology and Hyperbaric Medicine: Practice and Research Based Updates: 2017 – Part 2** **Paul Anderson, N.M.D.**

5:15pm – 5:45pm **Non-CME Sponsored Lecture** **Speaker - TBC (Non-CME Lecture)**

5:45pm – 6:15pm **Improving Cancer Care in HBOT** **EXPERT PANEL DISCUSSION**
• Paul Harch, M.D.
• Paul Anderson, N.M.D.
• Dominic D’Agostino, Ph.D.

6:15pm – 8:00pm **Cocktail Reception**
Kindly sponsored by



DAY 2 - Saturday, August 19, 2017



REGISTRATION: **STARTS AT 7:00AM** LOCATION: **Expo Hall**
7:00am – 8:00am Breakfast

Day 2 Morning Theme: HBOT and Pediatric Care

8:00am – 8:45am

Epigenetics of Autism: Role of Imaging and HBOT

Edward Fogarty, M.D.

This lecture will describe the primary detoxification impairments associated with autism. The various developmental toxins from waveforms to metals and organic compounds will be reviewed with references to literature published over the last ten to fifteen years. Sulfation and methylation pathways will be primarily understood as the detoxification pathways with the greatest penetrance into the population. Mitochondrial impairments of electron transport will also be a critical learning point that will dovetail into the mechanisms by which HBOT may help to improve the clinician's armamentarium of approaches to therapy. The imaging of neurovascular dynamics in acute encephalitis will be reviewed with a policy nod to helping emergency medicine professionals work up an acute encephalitis of various etiologies or seizures in a temporally and medico-legally critical fashion for documentation of vaccine injuries specifically. Malondialdehyde and TBARS as global neuroinflammatory stressors in the urine and CSF GFAP biomarkers and their role in acute encephalitis associated with at risk children for autism and seizure disorder will be reviewed in context of MRS of brain glutathione levels.

8:15am - 10:15am

Autism and HBOT: HBOT-based Multi-mode

Arun Mukherjee, MBBS, M.D.

Therapy of Autism Spectrum improves quality of life and a faster return to mainstream life than possible with classical rehabilitation given alone.

Autism is caused by genetic, metabolic and pollution-induced pathophysiologies initiating brain inflammation and hypoxia. Classical rehabilitation plus controlling such pathophysiologies, especially brain hypoxia by HBOT, helps speed up recovery time to improve quality of life.

10:15am - 10:45am

Morning Break

10:45am – 11:30am

Case Assessments of Treating Autistic Children with HBOT

EXPERT PANEL DISCUSSION

- Paul Harch, M.D.
- Arun Mukherjee, M.D.
- Edward Fogarty, M.D.

11:30am – 12:30pm

Delaying Latency to Hyperbaric Oxygen Induced CNS Oxygen Toxicity Seizures by Combinations of Exogenous Ketone Supplements

Csilla Ari D'Agostino, Ph.D.

Dr. D'Agostino's study explores the effect of exogenous ketone supplements on the latency to and severity of seizures during CNS oxygen toxicity seizures, when Sprague-Dawley rats are exposed to hyperbaric oxygen. Some of the ketogenic supplements in different dosing and in combinations improved latency to seizures and seizure severity.

12:30pm – 1:00pm

Non-CME Sponsored Lecture

**Speaker - TBC
(Non-CME Lecture)**

1:00pm – 2:15pm

Kindly sponsored by



Lunch Break



Expo Hall

1:00pm – 2:15pm **Lunch Break**

Day 2 Afternoon Theme: Oncology and HBOT

2:15pm – 3:00pm **Dosing of Hyperbaric Oxygen Therapy in Chronic** **Paul G. Harch, M.D.**

Neurological Injury: Evidence for Cumulative

Oxygen Intolerance and Sensitivity

Historically, the lung is the sole organ that was thought to register cumulative negative side effects of chronic repetitive oxygen exposure. Prevailing dogma teaches that the brain only manifests acute oxygen sensitivity, yet the extreme forms of oxygen sensitivity in chronic wound conditions often occur during a course of HBOT, not with the first treatment. Using classic definitions, this lecture will review a clinical experience of oxygen sensitivity in chronic brain injured patients and demonstrate that cumulative oxygen sensitivity occurs within a certain dose range.

3:00pm – 3:45pm **HBOT and Sports : Elite Preparation, Recovery** **Malcolm R. Hooper, D.C.**

and Performance

Widely regarded as one of the most experienced and scientifically-based sports medicine hyperbaric oxygen therapy practitioners, Dr. Hooper will be discussing and presenting the scientific underpinnings of hyperbaric oxygen therapy in sports medicine conditions. He will present the rationale that has facilitated HBOT integration into sports conditioning and injury treatment programs, allowing some of the world's most elite athletes to achieve a competitive edge. The applied principles will be shown to be identical to those that are operational in the more traditional applications of HBOT. Dr. Hooper will also present evidence for cytokine-guided HBOT as a novel method for application and dosing of hyperbaric oxygen therapy.

3:45pm – 4:15pm **Afternoon Break**

4:15pm – 4:45pm **Acute Concussion Diagnostics and Treatment:** **Daphne Denham, M.D..**
HBOT for Subacute Traumatic Encephalitis Untied **and Edward Fogarty, M.D.**
with Transcranial Doppler Vascular Lab of the Brain

Drs. Denham and Fogarty will discuss the treatment of acute concussion via the presentation of a series of cases from Dr. Denham's practice experience. The topics reviewed will include the refinement of protocols in ethical, safe physician directed medical care of the subacute and acute concussion patient as well as a review of imaging and clinical laboratory research regarding acute concussion diagnostics. MRI, Transcranial Doppler Ultrasound, urinary and serum biomarkers of acute concussion will be reviewed as a point of education towards how to better diagnose this common form of mild recurrent encephalitis. In the field review of cases from Dr. Denham brings real world data and workflow experience into this lecture. Many active outpatient centers looking to improve their healing social entrepreneurial outreach into their communities will appreciate the harmonization of "benchtop to desktop to blacktop" approach brought forth by these two physicians.

4:45pm – 5:15pm **Case Report on HBOT in Chronic Carbon** **Lon Keim, M.D.**
Monoxide Poisoning: Rescuing memories long
thought lost forever

Dr. Lon Keim reviews the literature and the lengths to which a father will go to improve the condition of a severely metabolically injured son from carbon monoxide poisoning occurring as a result of attempted suicide. The efforts to which his team of physicians and this family went in order to access a recovery of memory function are truly wonderful parts of this story from Great Plains cowboy culture.

5:15pm – 5:45pm **Non-CME Sponsored Lecture** **Speaker - TBC**
(Non-CME Lecture)

5:45pm – 6:15pm **Assessment of Case Studies, Protocols,** **EXPERT PANEL DISCUSSION**
and Treatments • **Paul Harch, M.D.**
• **Edward Fogarty, M.D.**
• **Malcolm Hooper, D.C.**

7:00pm – 8:30pm **IHMA/IHMF 2017 THINK TANK**

- **Scope of Practise**
- **Introducing the International Hyperbaric Medical Scientific Advisory 2017**
- **IHMA 2017 Training and Certification**
- **IHMA Continuing Professional Development**
- **Forward Thinking**



DAY 3 - Sunday, August 20, 2017



REGISTRATION: **STARTS AT 7:00AM** LOCATION: **Expo Hall**
7:30am – 8:30am Breakfast

Day 3 Morning Theme: Veterinarian and HBOT

8:30am – 9:30am **Putting the Pressure on Disease: An Introduction to** **Dennis Geiser, D.V.M.**
Clinical Hyperbaric Therapy in Animals

Introduction to the status of the clinical application of hyperbaric oxygen therapy in animals. This presentation will briefly review history, animal hyperbaric chambers, clinical applications, patient evaluation, preparation and treatment, and safety and training in animal hyperbaric therapy.

9:30am - 10:15am Topic TBC **Loren Nations, D.V.M.**

10:15am - 10:45am **Morning Break**

10:45am – 11:15am **Veterinarian and HBOT Case Reports** **Dennis Geiser, D.V.M. and**
Loren Nations, D.V.M.

11:15am – 11:45am **Introducing the IHMF2017 Tiered System of** **Paul G. Harch, M.D. and**
Hyperbaric Oxygen Therapy: Different Pressures **Malcolm Hooper, D.C.**
for Different Conditions

11:45am – 12:15pm **HBOT and Evolving Treatments** **EXPERT PANEL DISCUSSION**
• Paul Harch, M.D.
• Dennis Geiser, D.V.M.
• Loren Nations, D.V.M.
• Greg Morgan, M.D.

12:15pm – 1:15pm **Lunch Break**



DAY 3 - Sunday, August 20, 2017



Expo Hall

12:15pm – 1:15pm **Lunch Break**

Day 3 Afternoon Theme: Future Direction in Hyperbaric Medicine

1:15pm – 2:00pm

Call for Papers Nominees – TBC

2:00pm – 2:45pm

The Global Landscape and How HBOT
can Evolve During the Next Decade

Paul Harch, M.D., Pierre
Marois, M.D. and Mal Hooper,
D.C.

2:45pm – 3:15pm

“1-2-3: go!” How to leave the conference with
a roadmap for setting up and monitoring a
hyperbaric facility – What you need to know
and how the IHMA/IHMF can help

Greg Morgan, M.D. and
Edward Fogarty, M.D

3:15pm – 3:30pm

Closing Remarks