**GENERAL SESSION SCHEDULE**

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
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<tr>
<td><strong>THURSDAY, June 28</strong></td>
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<tr>
<td>7:00 AM</td>
<td>8:00 AM</td>
<td>CONTINENTAL BREAKFAST / EXHIBITS</td>
<td>Fiesta 6</td>
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<tr>
<td>8:00 AM</td>
<td>8:30 AM</td>
<td>President's Address: Enoch Huang, MD</td>
<td>Fiesta 5</td>
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<tr>
<td>8:30 AM</td>
<td>12:00 PM</td>
<td>Non-Physician Breakout (not approved for physician CME credits)</td>
<td>Yucatan 1-3</td>
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<tr>
<td>8:30 AM</td>
<td>10:00 AM</td>
<td>Plenary Session: Hyperbaric Medicine and Cancer</td>
<td>Fiesta 5</td>
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<tr>
<td>8:30 AM</td>
<td>9:15 AM</td>
<td>The role of hyperbaric medicine in cancer therapy</td>
<td>Fiesta 5</td>
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<tr>
<td>9:15 AM</td>
<td>10:00 AM</td>
<td>Hyperbaric Oxygen Radiation Sensitization of Squamous Cell Carcinomas of the Oropharynx</td>
<td>Fiesta 5</td>
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<tr>
<td>10:00 AM</td>
<td>10:30 AM</td>
<td>BREAK / EXHIBITS</td>
<td>Fiesta 6</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>11:30 AM</td>
<td>Session A: Diving / Decompression Illness: Theory &amp; Mechanisms</td>
<td>Fiesta 5</td>
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<tr>
<td>11:30 AM</td>
<td>11:45 AM</td>
<td>A 1: Heliox in-water decompression schedules for the interspiro is-mix mine clearance diving system</td>
<td>Fiesta 5</td>
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<tr>
<td>11:50 AM</td>
<td>12:00 AM</td>
<td>Presenting Author: <strong>Pieter-Jan van Ooij, PHD</strong></td>
<td>Fiesta 5</td>
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<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td>Poster Session A</td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>A 1: Heliox in-water decompression schedules for the interspiro is-mix mine clearance diving system</td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>Bouak F, van Ooij PJ, Nishi R, van Hulst RA</td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>Presenting Author: <strong>Pieter-Jan van Ooij, PHD</strong></td>
<td>Fiesta 7-10</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>A 2: Provocative decompression causes diffuse vascular injury mediated by interleukin (IL)-1β and inhibited by hyperbaric oxygen (HBO₂).</td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>Thom SR, Bhopale VM, Yang M</td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>Presenting Author: <strong>Stephen R Thom, MD</strong></td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>A 3: The effect of intermittent normobaric hyperoxia on stem cell mobilization and cytokine expression</td>
<td>Fiesta 7-10</td>
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<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>MacLaughlin KJ, Barton G, Braun R, Sobakin A, Eldridge M</td>
<td>Fiesta 7-10</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>Presenting Author: <strong>Kent MacLaughlin</strong></td>
<td>Fiesta 7-10</td>
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</tbody>
</table>
A 4: Pharmacological vasodilation and gas switching to carbon tetrafluoride during decompression to attenuate DCS
Presenting Author: Trevor Weis

A 5: Oxygen pre-breathe and decompression sickness outcomes in the uw sheep model
Sobakin AS, Eldridge MW
Presenting Author: Aleksey Sobakin, PHD

A 6: Microparticle and interleukin (IL)-1β production associated with human high pressure exposures
Brett KD, Nugent NZ, Fraser KN, Bhopale VM, Yang M, Thom SR
Presenting Author: Kaighley Brett, MD

A 7: Hyperbaric and high-oxygen environments accelerate muscle strength recovery in contused rat skeletal muscle
Naoki Yamamoto
Presenting Author: Naoki Yamamoto, MD

A 8: Effects of a hyperbaric environment on antioxidative mechanisms in the mouse.
Masaki H, Akira K, Naoki Y, Toshihiro K, Kazuyoshi Y
Presenting Author: Masaki Horie, PHD

A 9: Consistency of venous gas emboli status after three controlled pool diving exposures: a pilot study
Presenting Author: Petar Denoble, MD

A 10: Augmentation of event related brain activity on cognitive control under hyperbaric environment
Fujii T
Presenting Author: Tatsufumi Fujii

A 11: Effect of rehydration schedule after four-hour head out water immersion on running performance and recovery
Stansbery RL, Hess HW, Schlader ZJ, Pendergast DR, Russo LN, Hostler D
Presenting Author: Rebeccah Stansbery

A 12: Cold water submersion attenuates post-submersion aerobic performance irrespective of rehydration strategy
Hess HH, Schlader ZJ, Russo LN, Clemency BM, Stooks JJ, Carden CR, Hostler D
Presenting Author: Hayden W Hess

A 13: Adapting contrast-enhanced imaging techniques to improve quantification of decompression bubbles in humans
Hensel JSE, Le DQ, Balestra C, Tang M-X, Dayton PA, Papadopoulou V
Presenting Author: James S. E. Hensel

A 14: Orthostatic intolerance following cold seawater submersion is likely independent of changes in body fluid status
Hess H, Russo LN, Clemency BM, Stooks J, Carden C, Hostler D
Presenting Author: Zachary J. Schlader, PHD
A 15
Quantifying pathologic changes in the heart and lung of swine due to “yo-yo” and square dive protocols
Ofir D, Arieli Y, Mullokandov M, Liboff A, Yanir Y
Presenting Author: Dror Ofir, PHD

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>12:00 PM</td>
<td>LUNCH</td>
<td>ON OWN</td>
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<tr>
<td>12:00 PM</td>
<td>Associate’s Luncheon (sign up required - limited to 50)</td>
<td>Durango 2</td>
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<tr>
<td>1:00 PM</td>
<td>Lambertsen Memorial Keynote:</td>
<td>Fiesta 5</td>
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<tr>
<td></td>
<td>A long shot to a short shot: Hyperbaric Oxygen augmented ACLS/ATLS spawned by commercial diving medicine experience&quot;</td>
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<tr>
<td>2:00 PM</td>
<td>Non-Physician Breakout</td>
<td>Yucatan 1-3</td>
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<tr>
<td>2:00 PM</td>
<td>2:00 - 2:15 B 1: Oxygen microbubbles relieve tumor hypoxia and improve radiotherapy tumor control in a rat fibrosarcoma model Fix SM, Papadopoulou V, Velds H, Slagle C, Kasoji SK, Rivera JN, Borden MA, Chang S, Dayton PA Presenting Author: Samantha M. Fix</td>
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<tr>
<td>2:15 - 2:30</td>
<td>B 2: A hyperbaric and high-oxygen environment accelerates IL-6 synthesis, activates the IL-6/STAT3 pathway and suppress NFκB in rat contused skeletal muscle Oyaizu T, Enomoto M, Horie M, Yamamoto N, Yagishita K Presenting Author: Takuya Oyaizu, MD</td>
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<tr>
<td>2:45 - 3:00</td>
<td>B 4: Effects of high-intensity interval training while in a hyperbaric oxygen environment on exercise performance Decato TW, Wilson EL, Weaver LK, Hegewald MJ Presenting Author: Matthew Hegewald, MD</td>
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<tr>
<td>3:00 PM</td>
<td>BREAK / EXHIBITS</td>
<td>Fiesta 6</td>
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<tr>
<td>3:30 PM</td>
<td>Poster Session B</td>
<td>Fiesta 7-10</td>
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<tr>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Plenary Session: Mechanisms of HBO₂</td>
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<td>Cell signaling and mechanisms of action: how does hyperbaric oxygen really work?</td>
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<td>6:00 PM</td>
<td>7:00 PM</td>
<td>Exhibitor Wine &amp; Cheese Reception</td>
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<tr>
<td>8:00 AM</td>
<td>Plenary Session: Research and Registries for Hyperbaric Oxygen Therapy</td>
<td>Fiesta 5</td>
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<tr>
<td>8:00-8:30</td>
<td>The Hyperbaric Oxygen Therapy Registry and the role of a Qualified Clinical Data Registry in protecting reimbursement</td>
<td>Fiesta 5</td>
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<td>8:30-9:00</td>
<td>The hyperbaric medicine registry at Dartmouth</td>
<td>Fiesta 5</td>
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<tr>
<td>9:00-9:30</td>
<td>The role of registries in medicine</td>
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<td>9:30-10:00</td>
<td>PANEL Discussion</td>
<td>Fiesta 5</td>
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<td>10:00 AM</td>
<td>BREAK / EXHIBITS</td>
<td>Fiesta 6</td>
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<tr>
<td>10:30 AM</td>
<td>Session C: Diving and Decompression Illness</td>
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<td>10:30 - 10:45</td>
<td><strong>C 1</strong>: CNS oxygen toxicity – models vs practice</td>
<td>Fiesta 5</td>
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<td>10:45 - 11:00</td>
<td><strong>C 3</strong>: Recreational diving related injuries among insured Divers Alert Network Japan members: Retrospective analysis of 321 cases from 2010 to 2014</td>
<td>Fiesta 5</td>
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<td>11:00 - 11:15</td>
<td><strong>C 4</strong>: Pulmonary fluid shifts are a common result of SCUBA diving exposures</td>
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<td>11:15 - 11:30</td>
<td><strong>C 5</strong>: Analysis of 500 self-reported recreational scuba diving incidents</td>
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<td>11:30 AM</td>
<td>Poster Session C</td>
<td>Fiesta 7-10</td>
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<td><strong>C 1</strong>: CNS oxygen toxicity – models vs practice</td>
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<td>Garbino A, Walker S, Sanders R</td>
<td>Fiesta 7-10</td>
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<td>Presenting Author: <strong>Alejandro Garbino, MD</strong></td>
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<td><strong>C 2</strong>: Withdrawn</td>
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<td>Kojima Y, Suzuki S, Niizeki Y, Kojima A, Kawaguchi H, Yagishita K</td>
<td>Fiesta 7-10</td>
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<td>Presenting Author: <strong>Yasushi Kojima, MD</strong></td>
<td>Fiesta 7-10</td>
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<td><strong>C 4</strong>: Pulmonary fluid shifts are a common result of scuba diving exposures</td>
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<td>Sanders RW, Williams S, Ray K</td>
<td>Fiesta 7-10</td>
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<td>Presenting Author: <strong>Robert Sanders, MD</strong></td>
<td>Fiesta 7-10</td>
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<td>Buzzacott P, Bennett CM, Denoble PJ.</td>
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<td>Presenting Author: <strong>Peter Buzzacott, PHD</strong></td>
<td>Fiesta 7-10</td>
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<td><strong>C 6</strong>: Risk factors for middle ear barotrauma in subjects undergoing hyperbaric oxygen therapy</td>
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<td>Hatch JL, Wieland AM, High R, Cooper JS</td>
<td>Fiesta 7-10</td>
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<td>Presenting Author: <strong>Jeffrey Cooper, MD</strong></td>
<td>Fiesta 7-10</td>
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</table>
C 7: A Decompression stop for fishermen divers of the Yucatán Peninsula
Chin W, Lik U, Huchim O, Markovitz G, Galovich J
Presenting Author: Walter Chin, RN/CHRN

C 8: Upper and lower extremity altitude chamber DCS
Hayes, WA
Presenting Author: William A Hayes II, DO

C 9: Who’s listening? Ear health and diving: data from 790 divers
St Leger Dowse M, Waterman M. Jones R, Smerdon GR.
Presenting Author: Marguerite St Leger Dowse

C 10: Ten year period prevalence of decompression illness among small-scale fishermen divers
Chin W, Ramachandran M, Huchim-Lara O
Presenting Author: Walter Chin, RN/CHRN

C 11: Cerebrovascular Responses to Thermoneutral Head Out Water Immersion
Schlader ZJ, Sackett JR
Presenting Author: Blair D. Johnson, PHD

C 12: Rater reliability of a transthoracic bubble study among fishermen divers of the Yucatán Peninsula
Chin W, Huchim O, Endo B, Medak A, Ramachandran M, Popa D
Presenting Author: Walter Chin, RN/CHRN

C 13: Prevalence of Right-to-Left Shunt among Fishermen Divers of the Yucatán Peninsula
Chin W, Huchim O, Endo B, Medak A, Ramachandran M, Popa D
Presenting Author: Brandon Endo, MD

C 14: Bubbles in vascular plexuses of the skin in the cutaneous decompression sickness. Report of cases
Garcia E, Galicia P, Villanueva V.
Presenting Author: Eduardo Garcia, MD

C 15: Treatments of Dysbaric Osteonecrosis
Presenting Author: Mahito Kawashima, MD

12:00 PM  | 12:30 PM  | Poster Session C  | Fiesta 7-10

C 16: Perilymphatic fistula after diving: a case series
Johnson-Arbor K
Presenting Author: Kelly Johnson-Arbor, MD

C 17: Effect of single breath oxygen on breath-hold time
Weaver AL, Weaver LK, Deru K
Presenting Author: Anika Weaver

C 18: Physical disabilities after decompression illness among small-scale fishermen divers of the Yucatán Peninsula
Aguiñaga S., Huchim-Lara O., Chin W.
Presenting Author: Sofia Aguinaga
C 19: Oxygen exposures at NASA’s neutral buoyancy lab: a 20-year experience
Walker SC, Garbino A, Ray K, Hardwick R, Fitzpatrick DT, Sanders RW
Presenting Author: Robert Sanders, MD

C 20: Estimated workload intensity during volunteer aquarium dives
Buzzacott P, Grier JW, Walker J, Bennett CM, Denoble PJ
Presenting Author: Peter Buzzacott, PHD

C 21: Successful treatment of decompression illness complicated with acute hepatic infarction and acute kidney injury: A case report
Oh SH, Choi SC, Cha YS, Lee YH, Kim GW, Kim H
Presenting Author: Se Hyun Oh, MD

C 22: Recurrent facial baroparesia: A case report
Gomez-Castillo JD, Esquivel-Garcia B
Presenting Author: Dario Gomez, MD

C 23: Hyperbaric oxygen therapy for Type-II DCS in an experienced dive master – A case study
Boes T, Morgan M, Sharma D, Santiago W, Mariani P, Heyboer M
Presenting Author: Tanner Boes, MD

C 24: Hyperbaric oxygen therapy for type-i dcs secondary to Hypobaric Challenge – A case study
Boes T, Morgan M, Sharma D, Santiago W, Mariani P, Heyboer M
Presenting Author: Tanner Boes, MD

C 25: Urinary obstruction following octopus bite
Weaver, LK
Presenting Author: Lindell K. Weaver, MD

C 26: DCS with incidental pulmonary cyst
Norton M, Weaver L, Uchida D
Presenting Author: Mariesa N. Norton, ACNP/PA

C 27: Unusual response to a presumptive stingray spine injury
Do R, Lu LQ, Strauss MB
Presenting Author: Michael B. Strauss, MD

C 28: The impact of hyperbaric oxygen therapy on chronic Lyme disease: A case study
Linden RO, Zacher JE, LeDez KM, Cook T
Presenting Author: Ron Linden, MD

C 29: A pilot study evaluating knowledge of indications for hyperbaric oxygen therapy among physicians in Mid-Michigan
Jones MW, Henning WH
Presenting Author: Werner Henning, DO

C 30: Underwater nasal decongestant use: A novel approach to middle ear equalization during a dive
Covington DB, Pitkin AD
Presenting Author: Derek Covington, MD

12:00 PM | 1:00 PM | LUNCH | ON OWN
<table>
<thead>
<tr>
<th>Time</th>
<th>Session D: Diving and Decompression Illness</th>
<th>Location</th>
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</thead>
</table>
| 2:00 PM  | **D 1**: A randomized trial of one v. three hyperbaric oxygen sessions for acute carbon monoxide poisoning  
Weaver LK, Churchill S, Deru K, Handrahan D  
Presenting Author: **Lindell K. Weaver, MD** | Fiesta 5 |
| 2:15 - 2:30 | **D 2**: A clinical practice guideline for the prevention and treatment of Mandibular Osteoradionecrosis (ORN) applying GRADE methodology  
UHMS CPG Oversight Committee: Feldmeier JJ, LeDez K, Le PNJ, Mansouri J, Moon R, Murad MH  
Presenting Author: **John Feldmeier, DO** | Fiesta 5 |
| 2:30 - 2:45 | **D 3**: Sleep assessment in a randomized trial of hyperbaric oxygen in U.S. service members with post-concussive symptoms  
Walker JM, Mulatya C, Hebert D, Wilson SH, Lindblad AS, Weaver LK  
Presenting Author: **Lindell K. Weaver, MD** | Fiesta 5 |
| 2:45 - 3:00 | **D 4**: A composite outcome for mild traumatic brain injury in trials of hyperbaric oxygen  
Weaver LK, Churchill S, Wilson SH, Hebert D, Deru K, Lindblad AS  
Presenting Author: **Steffanie Wilson, PHD** | Fiesta 5 |
| 3:00 PM | **D 1**: A randomized trial of one v. three hyperbaric oxygen sessions for acute carbon monoxide poisoning  
Weaver LK, Churchill S, Deru K, Handrahan D  
Presenting Author: **Lindell K. Weaver, MD** | Fiesta 6 |
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Presenting Author: **John Feldmeier, DO** | Fiesta 6 |
| 4:00 PM | **D 3**: Sleep assessment in a randomized trial of hyperbaric oxygen in U.S. service members with post-concussive symptoms  
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Weaver LK, Churchill S, Wilson SH, Hebert D, Deru K, Lindblad AS  
Presenting Author: **Steffanie Wilson, PHD** | Fiesta 6 |
| 4:00 PM | **D 5**: Hyperbaric oxygen therapy effect on patients suffering from fibromyalgia due to childhood sexual abuse – randomized controlled trial  
Hadanny A, Bechor Y, Catalogna M, Daphna S, Lev R, Efrati S  
Presenting Author: **Amir Hadanny, MD** | Fiesta 6 |
D 6: Hyperbaric oxygen for TBI and PTSD: A meta-analysis of Department of Defense and other published study results
Hart BB, Weaver LK, Gupta A, Wilson SH, Vifayarangan A, Deru K, Hebert D
Presenting Author: Brett Hart, MD

D 7: Hyperbaric oxygen therapy can rescue ischemic breast flaps following skin-sparing mastectomy
Rajpal N, Walters E, Elmarsafi T, Johnson-Arbor K, Pittman T
Presenting Author: Kelly Johnson-Arbor, MD

D 8: A retrospective analysis of treatment of wounds caused by Calciphylaxis: Hyperbaric oxygen therapy with and without Sodium Thiosulfate
Armour D, Tailor Y, Preston-Hsu E
Presenting Author: Doris Armour, MD

D 9: The effect hyperbaric oxygen on erectile dysfunction – Pilot study
Presenting Author: Amir Hadanny, MD

D 10: Effects of hyperbaric oxygen therapy on non-diabetic serum glucose levels
Boes T, Wojcik S, Heyboer M, Seargent S
Presenting Author: Tanner Boes, MD

D 11: Case series review: Multicenter experience treating Idiopathic Sudden Sensorineural Hearing Loss (ISSHL) with adjunctive hyperbaric oxygen therapy
Robins MS, Gwilliam A, Weaver LK, Churchill S, Deru K, Cascio M, Pollack R, Nail S
Presenting Author: Marc Robins, DO

D 12: Hyperbaric oxygen treatment course completion and time to drop-out in a large outpatient sample
Brailsford JB, Gordon HM, Ennis, WJ
Presenting Author: Jennifer Brailsford, PHD

D 13: Advanced wound care assessment as a pre-cursor to HBO₂: Improving diabetic foot ulcer outcomes
Tremblay R, Michael M
Presenting Author: Roma Tremblay, PHD

D 14: Hyperbaric oxygen therapy: A review of adverse event rates during treatment for Radiation Cystitis
Owen E, Perdrizet G
Presenting Author: Elizabeth Owen, MD

D 15: Appraisal of six wound scoring systems and the Long Beach Wound Score
Strauss MB, Moon H, Botros M, Lu LQ
Presenting Author: Michael B. Strauss, MD

4:00 PM   4:30 PM   Poster Session D   Fiesta 7-10

D 16: Spinal cord radiation injury reversed by hyperbaric oxygen therapy
Cianci PE, Costello PJ
Presenting Author: Paul Cianci, MD

D 17: Adjunctive hyperbaric oxygen therapy with isavuconizionium in the treatment of Mucor
Evangelista J
Presenting Author: Jose Evangelista, MD
D 18: Impact of hyperbaric oxygen therapy in a child with delayed soft tissue radiation necrosis of the brain.
Dapena JC, Siegel M
Presenting Author: Juan C. Dapena, MD

D 19: Hyperbaric oxygen therapy for the treatment of delayed frostbite injury
Johnson-Arbor K
Presenting Author: Kelly Johnson-Arbor, MD

D 20: Use of hyperbaric oxygen therapy for lower extremity sickle cell ulcerations
Johnson-Arbor K
Presenting Author: Kelly Johnson-Arbor, MD

D 21: Use of hyperbaric oxygen therapy for treatment of acute skin necrosis after a “Brazilian Butt Lift”
Johnson-Arbor K
Presenting Author: Kelly Johnson-Arbor, MD

D 22: Decision making for limb threatening wounds
Strauss MB, Moon H, Miller SS, Lu LQ
Presenting Author: Michael B. Strauss, MD

D 23: Case report: High-throughput enterocutaneous fistula and the role of HBO₂
Borges HL, Oliveira N, Paz MA, Santos PE, Toni JP
Presenting Author: Hugo Borges, MD

D 24: Case Report: HBO₂ avoiding amputation in serious osteomyelitis of ankle
Borges HL, Oliveira N, Paz MA, Santos PE, Toni JP
Presenting Author: Hugo Borges, MD

D 25: Femoropopliteal doppler velocities associated with hyperbaric oxygen treatment session of diabetic patients with leg ulcers
Maran CA, Salles-Cunha SX, Millazo PAA, Farias PSR, Castro IJL, David JRN, David RAR
Presenting Author: Maran Cristiane Antequeira, MD

D 26: Smoking paradox in the development of delayed neuropsychiatric sequelae among acute carbon monoxide (CO) intoxication patients with hyperbaric oxygen therapy
Lee Y
Presenting Author: Younghan Lee, MD

D 27: The historical priority of South America in hyperbaric research and practice
Brito T, Subbotina N
Presenting Author: Tomaz Brito, MD and Nina Subbotina, MD

D 28: Successful artificial sphincter placement for urinary incontinence in the setting of radiation cystitis with adjunctive hyperbaric oxygen therapy – A case study
Boes T, Morgan M, Sharma D, Santiago W, Mariani P, Heyboer M
Presenting Author: Tanner Boes, MD

D 29: Hyperbaric Oxygen Treatments for vasculitis induced by levamisole containing cocaine
Ptak J, Reetz S, Buckey J
Presenting Author: Judy Ptak, RN/CHRN
**D 30:** Closing RICH-ART study: Radiation induced cystitis treated with hyperbaric oxygen – A randomized controlled trial  
Oscarsson N, Bueller B, Seeman-Lodding H  
Presenting Author: Nicklas Oscarsson, MD

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<th>Time</th>
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<tbody>
<tr>
<td>4:30 PM</td>
<td>5:30 PM</td>
<td><strong>Plenary Session: HBO and DFU</strong></td>
<td>Fiesta 5</td>
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|            |            | **4:30-5:00** The effectiveness and costs of hyperbaric oxygen therapy for diabetic ischemic ulcers: results of the DAMOCLES multicenter trial**  
**Dirk Ubbink, MD** |           |
|            |            | **5:00-5:30** The Long Beach Wound Score as a Validated Tool for Comparative Effectiveness Research of Wounds and Objectifying the Indications for Hyperbaric Oxygen**  
**Michael Strauss, MD** |           |
| 5:30 PM    | 6:30 PM    | **UHMS Business Meeting - Open meeting**                              | Fiesta 5  |

**SATURDAY, June 30**

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<th>Time</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>8:00 AM</td>
<td><strong>CONTINENTAL BREAKFAST / EXHIBITS</strong></td>
<td>Fiesta 6</td>
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<tr>
<td>8:00 AM</td>
<td>10:00 AM</td>
<td><strong>Plenary Session: Emerging Indications for Hyperbaric Oxygen Therapy</strong></td>
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|            |            | **8:00-8:30** Hyperbaric Oxygen Therapy for Aseptic Necrosis of the Femoral Head and of the Femoral Condyles**  
**Enrico Camporesi, MD** |           |
|            |            | **8:30-9:00** Hyperbaric pre-conditioning**  
**Gerardo Bosco, MD** |           |
|            |            | **9:00-9:30** Brain injury**  
**Shai Efrati, MD** |           |
|            |            | **9:30-10:00** PANEL Discussion |           |
| 10:00 AM   | 10:30 AM   | **BREAK / EXHIBITS**                                                  | Fiesta 6  |
| 10:30 AM   | 11:30 AM   | **Session E: HBO2 Therapy, Chambers, and Equipment**                  | Fiesta 5  |
|            |            | **10:30-10:45** E 1: Reprogrammed bailout and surface decompression schedules for multiplace treatment profiles**  
**Raleigh GW**  
**Presenting Author: Greg Raleigh, CHT** |           |
|            |            | **10:45-11:00** E 2: Hyperbaric oxygen simulation education**  
**Arefieva CA, Duchnick J, Bermudez R, Witucki P, Shishlov K, Sadler C**  
**Presenting Author: Christa Arefieva** |           |
|            |            | **11:00-11:15** E 3: Performance characteristics of high frequency percussive ventilation (HFPV) under hyperbaric conditions**  
**Huang ET, Heltborg JL, Apsey RT, Ray K**  
**Presenting Author: Kristi Ray, MD** |           |
|            |            | **11:15-11:30** E 4: Observations on O2% during air breathing periods using a non-rebreather face mask in a monoplace chamber**  
**Bell J, Koumandakis G, Churchill S, Weaver LK**  
**Presenting Author: James Bell, CHT** |           |

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<tbody>
<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td><strong>Poster Session E</strong></td>
<td>Fiesta 5</td>
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|            |            | **E 1:** Reprogrammed bailout and surface decompression schedules for multiplace treatment profiles**  
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Bell J, Koumandakis G, Churchill S, Weaver LK
Presenting Author: James Bell, CHT

E 5: Interim analysis of mucosal atomizer use to maintain myringotomy patency during elective hyperbaric treatments
Walter J, Westgard B, Hendriksen S, Masters T, Logue C
Presenting Author: Joe Walter, MD

E 6: Intellivue MP30
Bliss C, Mosteller J
Presenting Author: Chae Bliss, CHT

E 7: Leg ulcer characterization by photographic imaging pre and post hyperbaric oxygen treatment: Lessons learned with first 10 cases
Maran CA, Salles-Cunha SX, Millazo PAA, Farias PSR, Castro IJL, David JRN, David RAR
Presenting Author: Maran Cristiane Antequeira, MD

E 8: Responding to an active shooter – Learning from one facility’s experience
Ptak J, Cormier J
Presenting Author: Judy Ptak, RN/CHRN

E 9: Use of High Frequency Percussive Ventilation (HFPV) in a patient with carbon monoxide poisoning
Huang ET, Heltborg JL, Apsey RJ
Presenting Author: Enoch Huang, MD

E 10: continuous bladder irrigation in the monoplace hyperbaric chamber: A cautionary tale
Cooper JS, Lagrange CA
Presenting Author: Jeffrey Cooper, MD

E 11: The use of indocyanine green fluorescence angiography to assess perfusion of chronic wounds undergoing hyperbaric oxygen therapy
Presenting Author: Alisha Oropallo, MD

E 12: Utilization of fluorescence microangiography (LUNA) in a pediatric patient with acute compartment syndrome
Walter J, Settypalli S, Westgard B, Hendriksen S, Masters T, Logue C
Presenting Author: Joe Walter, MD

E 13: Public awareness of carbon monoxide poisoning
Gwilliam AM, Williams B, Stewart JR, Robins MS
Presenting Author: Annette Gwilliam, RN/CHRN
**E 14: Surviving an active shooter event**  
Brown P  
Presenting Author: **Paul Brown, CHT**

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<td>12:00 PM</td>
<td><strong>LUNCH</strong></td>
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<tr>
<td>1:00 PM</td>
<td><strong>Plenary Session: New Pearls of Wisdom in the Diving and Hyperbaric Medicine Literature</strong></td>
<td>Fiesta 5</td>
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<tr>
<td>1:00-1:30</td>
<td>Diving medicine literature update</td>
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<td><strong>Brian Keuski, MD; Fellow, Duke Hyperbarics</strong></td>
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<tr>
<td>1:30-2:00</td>
<td>Hyperbaric medicine literature update</td>
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<td><strong>Lince Varughese, MD; Fellow, LSU Hyperbarics</strong></td>
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<td>2:00 PM</td>
<td><strong>Session F: Top Case Reports</strong></td>
<td>Fiesta 5</td>
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| 2:00-2:10  | **F 1:** Case series of central retinal artery occlusion followed with bedside ultrasound  
Hendriksen SM, Masters TC, Westgard BC, Walter JW, Logue CJ  
Presenting Author: **Stephen Hendriksen, MD** |
| 2:10-2:20  | **F 2:** AGE during controlled ascent training in a Navy Diver trainee: A case report with video registration of the accident  
Wingelaar TT, van Ooij PJ, Koch D  
Presenting Author: **Thijs Wingelaar, MD** |
| 2:20-2:30  | **F 3:** Reversal of central pontine myelinolysis symptoms with hyperbaric oxygen therapy  
Bensusan AB, Staab P, LeGros TL, Murphy-Lavoie H  
Presenting Author: **Ariana P Bensusan, DO** |
| 2:30-2:40  | **F 4:** Taravana: A syndrome revisited, A case report  
Derksen BD, Savaser DJ  
Presenting Author: **Davut Savaser, MD** |
| 2:40-2:50  | **F 5:** Acute scalp necrosis successfully treated with hyperbaric oxygen therapy  
Johnson-Arbor K  
Presenting Author: **Kelly Johnson-Arbor, MD** |
| 2:50-3:00  | **F 6:** Delayed hyperbaric oxygen therapy for cerebral arterial gas embolism following scuba diving: A case report.  
Brett KD, Boni B, Latham E, Sadler C  
Presenting Author: **Kaiighley Brett, MD** |
| 3:00 PM    | **BREAK / EXHIBITS**                                                 | Fiesta 6   |

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<td>3:30 PM</td>
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Johnson-Arbor K
Presenting Author: Kelly Johnson-Arbor, MD

F 6: Delayed hyperbaric oxygen therapy for cerebral arterial gas embolism following scuba diving: A case report.
Brett KD, Boni B, Latham E, Sadler C
Presenting Author: Kaighley Brett, MD

F 7: A case of trigeminal neuralgia treated with hyperbaric oxygen
Huang ET
Presenting Author: Enoch Huang, MD

F 8: Cerebral AGE from upper endoscopy
Popa DA, Witucki P
Presenting Author: Daniel Popa, MD

F 9: Hyperbaric oxygen for late sequelae of carbon monoxide poisoning enhances neurological recovery
Keim LW, Koneru S, Ramos V, Murr N, Hoffnung DS, Murman DL, Cooper JS, Torres-Russotto D
Presenting Author: Jeffrey Cooper, MD

F 10: Facial baroparesis as a complication of HBO2: A previously unreported cause of a rare condition
Sayers MP, Lopez E, Gutfreund Y
Presenting Author: Martin P Sayers, MD

F 11: Cerebral arterial gas embolism in a scuba instructor: An interesting cause
Garcia E, Galicia P, Villanueva V
Presenting Author: Eduardo Garcia, MD

F 12: The role of emergent hyperbaric oxygen therapy in treatment of traumatic central retinal artery occlusion in patients after facial bone fracture
Shu-Hung H
Presenting Author: Huang Shu-Hung, MD

F 13: Hypoglycemia after scuba diving with insulin pump
Gomez-Castillo JD, Contreras U, Reyes-Silva KN
Presenting Author: Jorge Dario Gomez Castillo, MD

F 14: Lyme disease developing during hyperbaric oxygen treatments
Ptak J, Reetz S, Buckey J
Presenting Author: Judy Ptak, RN/CHRN

F 15: Case report: The role of HBO2 in a spider bite
Borges HL, Oliveira N, Paz MA, Santos PE, Toni JP
Presenting Author: Hugo Borges, MD

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<th>Plenary Session: Clinical and Metabolic Aspects in Breath-Hold Diving</th>
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<td>4:00-4:20</td>
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<td>Adaptive mechanisms in breath-hold divers</td>
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<td>Gerardo Bosco, MD</td>
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<td>4:20-4:40</td>
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<td>Pulmonary pathophysiology in deep breath-hold diving</td>
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<td>Peter Lindholm, MD</td>
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<td>4:40-5:00</td>
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<td>Breaking news on breath-hold diving research</td>
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<td>Alessandro Marroni, MD</td>
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<td>7:00 PM</td>
<td>10:00 PM Awards Banquet (separate fee)</td>
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<tr>
<td>10:00 PM</td>
<td>12:00 AM After Party (separate fee)</td>
<td>Monterrey &amp; La Mesa Patio</td>
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