

GENERAL SESSION: THURSDAY, JUNE 28 – SATURDAY, JUNE 30: Fiesta 5

START TIME	END TIME	EVENT	LOCATION
THURSDAY, June 28			
7:00 AM	8:00 AM	CONTINENTAL BREAKFAST / EXHIBITS	Fiesta 6
8:00 AM	8:30 AM	President's Address: Enoch Huang, MD	Fiesta 5
8:30 AM	12:00 PM	Non-Physician Breakout (not approved for physician CME credits)	Yucatan 1-3
8:30 AM	10:00 AM	Plenary Session: Hyperbaric Medicine and Cancer	Fiesta 5
	8:30-9:15	The role of hyperbaric medicine in cancer therapy John Feldmeier, DO	
	9:15-10:00	Hyperbaric oxygen radiation sensitization of squamous cell carcinomas of the oropharynx Dick Clarke, CHT	
10:00 AM	10:30 AM	BREAK / EXHIBITS	Fiesta 6
10:30 AM	11:30 AM	Session A: Diving / Decompression Illness: Theory & Mechanisms: Oral Presentations Moderators: Laurie Gesell, MD and Nick Bird, MD	Fiesta 5
	10:30 - 10:45	A 1: Heliox in-water decompression schedules for the Interspiro IS-MIX mine clearance diving system Bouak F, van Ooij PJ, Nishi R, van Hulst RA Presenting Author: Pieter-Jan van Ooij, PHD	
	10:45 - 11:00	A 2: Provocative decompression causes diffuse vascular injury mediated by interleukin (IL)-1β and inhibited by hyperbaric oxygen (HBO₂) Thom SR, Bhopale VM, Yang M Presenting Author: Stephen R Thom, MD	
	11:00 - 11:15	A 3: The effect of intermittent normobaric hyperoxia on stem cell mobilization and cytokine expression MacLaughlin KJ, Barton G, Braun R, Sobakin A, Eldridge M Presenting Author: Kent MacLaughlin	
	11:15 - 11:30	A 4: Pharmacological vasodilation and gas switching to carbon tetrafluoride during decompression to attenuate DCS Weis TW, Wilbur JC, Knaus DA, Buckley JC, Vann RD, Sevick JR, Stump DA, Deal DD, Ramsey M, Natoli MJ, Fellows A, Marshall C, Magari PJ, Cooter M, Moon RE Presenting Author: Trevor Weis	
11:30 AM	12:00 PM	Poster Session A	Fiesta 7-10
		A 1: Heliox in-water decompression schedules for the interspiro IS-MIX mine clearance diving system Bouak F, van Ooij PJ, Nishi R, van Hulst RA Presenting Author: Pieter-Jan van Ooij, PHD	

A 2: Provocative decompression causes diffuse vascular injury mediated by interleukin (IL)-1 β and inhibited by hyperbaric oxygen (HBO₂)

Thom SR, Bhopale VM, Yang M

Presenting Author: **Stephen R Thom, MD**

A 3: The effect of intermittent normobaric hyperoxia on stem cell mobilization and cytokine expression

MacLaughlin KJ, Barton G, Braun R, Sobakin A, Eldridge M

Presenting Author: **Kent MacLaughlin**

A 4: Pharmacological vasodilation and gas switching to carbon tetrafluoride during decompression to attenuate DCS

Weis TW, Wilbur JC, Knaus DA, Buckley JC, Vann RD, Sevick JR, Stump DA, Deal DD, Ramsey M, Natoli MJ, Fellows A, Marshall C, Magari PJ, Cooter M, Moon RE

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)-1 β 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

Yamamoto N

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

Denoble PJ, Papadopoulou V, Buzzacott P, Edelson CJ, Pieri M, Cialoni D, Lambrechts K, Balestra C, Marroni A

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: **Rebecca 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**

12:00 PM	1:00 PM	LUNCH	ON OWN
12:00 PM	1:00 PM	Associates Luncheon (sign-up required - limited to 50)	Durango 2
1:00 PM	2:00 PM	Lambertsen Memorial Keynote:	Fiesta 5
A long shot to a short shot: Hyperbaric oxygen augmented ACLS/ATLS spawned by commercial diving medicine experience Keith Van Meter, MD			
2:00 PM	5:00 PM	Non-Physician Breakout	Yucatan 1-3
2:00 PM	3:00 PM	Session B: HBO ₂ Therapy Mechanisms Moderators: Stephen Thom, MD and John Feldmeier, DO	Fiesta 5
	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	
	2:15 - 2:30	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	
	2:30 - 2:45	B 9: Ketosis as a neuroprotective mechanism to CNS oxygen toxicity (CNSOT) in divers exposed to high partial pressures of oxygen (PO₂) Dituri J, Renaldo C, Quirk B, D’Agostino D, Ari C, Annis H, Whelan HT Presenting Author: Harry T. Whelan, MD	

2:45 - 3:00		B 8: Hyperbaric oxygen therapy for compromised flaps: Is there a role for delayed treatment? Francis A, Goldman JJ, Kleban SR, McNicoll CF, Mehta A, Phalke N, Doyle G, Nakhaima S, Rovig J, Williams SJ, Cross CL, Fang XH, Wang WZ, Baynosa RC Presenting Author: Aradhana Mehta, MD	
3:00 PM	3:30 PM	BREAK / EXHIBITS	Fiesta 6
3:30 PM	4:00 PM	Poster Session B	Fiesta 7-10
<p>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</p> <p>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</p> <p>B 3: DUPLICATE - WITHDREW</p> <p>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</p> <p>B 5: Aseptic condylar necrosis and hyperbaric oxygen therapy Enten G, Bosco G, Vezzani G, Manelli D, Rao N, Mangar D, Bernasek T, Camporesi E Presenting Author: Enrico M. Camporesi, MD</p> <p>B 6: Hyperbaric oxygen therapy ameliorates osteonecrosis in patients by modulating inflammation and oxidative stress Camporesi E, Enten G, Vezzani G, Rizzato A, Bosco G Presenting Author: Enrico M. Camporesi, MD</p> <p>B 7: WITHDREW</p> <p>B 8: Hyperbaric oxygen therapy for compromised flaps: Is there a role for delayed treatment? Francis A, Goldman JJ, Kleban SR, McNicoll CF, Mehta A, Phalke N, Doyle G, Nakhaima S, Rovig J, Williams SJ, Cross CL, Fang XH, Wang WZ, Baynosa RC Presenting Author: Aradhana Mehta, MD</p>			

B 9: Ketosis as a neuroprotective mechanism to CNS oxygen toxicity (CNSOT) in divers exposed to high partial pressures of oxygen (PO₂)

Dituri J, Renaldo C, Quirk B, D'Agostino D, Ari C, Annis H, Whelan HT

Presenting Author: **Harry T. Whelan, MD**

B 10: Investigation of a cell-permeable mitochondrial prodrug on mitochondrial function in human blood cells from patients with CO poisoning

Jang DH, Khatri UG, Kelly MP, Lambert DK, Hardy K

Presenting Author: **Matthew Kelly, MD**

B 11: Physiologic and cognitive effects of nutritional ketosis, elevated PO₂ and exercise (KetOX Study)

Keuski BM, Freiburger JJ, Moon RE, Richardson C, Natoli MJ, Schinazi EA, D'Agostino DP, Kuchibhatla M, Tomoye EO, Derrick BJ

Presenting Author: **Brian M. Keuski, MD**

B 12: Supraventricular tachycardia during hyperbaric oxygen treatment

Mihai A, Morgan M, Heyboer M

Presenting Author: **Aurel Mihai, MD**

B 13: Ketogenic diet for reduction of CNS oxygen toxicity in working divers (KetOX Study)

Keuski BM, Freiburger JJ, Moon RE, Richardson C, Natoli MJ, Schinazi EA, D'Agostino DP, Kuchibhatla M, Tomoye EO, Derrick BJ

Presenting Author: **Brian Keuski, MD**

B 14: Last resort salvage of failed below knee amputations

Strauss MB, Lu LQ

Presenting Author: **Michael Strauss, MD**

B 15: Decompression sickness in the multiplace hyperbaric chamber attendant

Koca E, Mirasoglu B

Presenting Author: **Eylem Koca, MD**

4:00 PM	5:00 PM	Plenary Session: Mechanisms of HBO ₂	Fiesta 5
Hyperbaric oxygen therapy cell signaling and mechanisms of action Stephen Thom, MD			
6:00 PM	7:00 PM	Exhibitor Wine & Cheese Reception	Fiesta 6

START TIME	END TIME	EVENT	LOCATION
FRIDAY, June 29			
7:00 AM	8:00 AM	CONTINENTAL BREAKFAST / EXHIBITS	Fiesta 6
8:00 AM	10:00 AM	Plenary Session: Research and Registries for Hyperbaric Oxygen Therapy	Fiesta 5
	8:00-8:30	The Hyperbaric Oxygen Therapy Registry and the role of a qualified clinical data registry in protecting reimbursement Caroline Fife, MD	
	8:30-9:00	The hyperbaric medicine registry at Dartmouth Jay Buckey, MD	
	9:00-9:30	The role of registries in medicine Judith Rees, MD, PhD	
	9:30-10:00	PANEL Discussion	
10:00 AM	10:30 AM	BREAK / EXHIBITS	Fiesta 6
10:30 AM	11:30 AM	Session C: Diving and Decompression Illness Nick Bird, MD and Bruce Derrick, MD	Fiesta 5
	10:30 - 10:45	C 1: CNS oxygen toxicity – models vs practice Garbino A, Walker S, Sanders R Presenting Author: Alejandro Garbino, MD	
	10:45 - 11:00	C 3: Recreational diving-related injuries among insured Divers Alert Network Japan members: Retrospective analysis of 321 cases from 2010 to 2014 Kojima Y, Suzuki S, Niizeki Y, Kojima A, Kawaguchi H, Yagishita K Presenting Author: Yasushi Kojima, MD	
	11:00 - 11:15	C 4: Pulmonary fluid shifts are a common result of scuba diving exposures Sanders RW, Williams S, Ray K Presenting Author: Robert Sanders, MD	
	11:15 - 11:30	C 5: Analysis of 500 self-reported recreational scuba diving incidents Buzzacott P, Bennett CM, Denoble PJ Presenting Author: Peter Buzzacott, PHD	
11:30 AM	12:00 PM	Poster Session C-1	Fiesta 7-10
		C 1: CNS oxygen toxicity – models vs. practice Garbino A, Walker S, Sanders R Presenting Author: Alejandro Garbino, MD C 2: Withdrawn	

C 3: Recreational diving-related injuries among insured Divers Alert Network Japan members: Retrospective analysis of 321 cases from 2010 to 2014

Kojima Y, Suzuki S, Niizeki Y, Kojima A, Kawaguchi H, Yagishita K

Presenting Author: **Yasushi Kojima, MD**

C 4: Pulmonary fluid shifts are a common result of scuba diving exposures

Sanders RW, Williams S, Ray K

Presenting Author: **Robert Sanders, MD**

C 5: Analysis of 500 self-reported recreational scuba diving incidents

Buzzacott P, Bennett CM, Denoble PJ.

Presenting Author: **Peter Buzzacott, PHD**

C 6: Risk factors for middle ear barotrauma in subjects undergoing hyperbaric oxygen therapy

Hatch JL, Wieland AM, High R, Cooper JS

Presenting Author: **Jeffrey Cooper, MD**

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: **Walter Chin, RN/CHRN**

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

Kawashima M, Kawashima M, Tamura H, Nagayoshi I, Furue Y, Motoyama T, Sasaki T, Watanabe Y, Goto T, Takao K, Yamaguchi T, Miyata K

Presenting Author: **Mahito Kawashima, MD**

C 31: The antimicrobial activity of commonly used wound care products

Weis T, Tomoye E, Hazen K, Keuski BM, Shahbuddin Z, Moon RE, Derrick BJ, Freiburger JJ

Presenting Author: **Edward Tomoye, DO**

12:00 PM	12:30 PM	Poster Session C-2	Fiesta 7-10
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C 16: Perilymphatic fistula after diving: A case series

Johnson-Arbor K

Presenting Author: **Kelly Johnson-Arbor, MD**

C 17: Withdrawn

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**

UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

12:00 PM	1:00 PM	LUNCH	ON OWN
1:00 PM	2:00 PM	Kindwall Memorial Keynote:	Fiesta 5
		HBO ₂ and diabetic foot ulcers: Do we have a leg to stand on Eugene Worth, MD	
2:00 PM	3:00 PM	Session D: Clinical HBO ₂ Therapy Moderators: Sandra Wainwright, MD and Heather Murphy-Lavoie	Fiesta 5
	2:00 - 2:15	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	
	2:15 - 2:30	D 2: A clinical practice guideline for the prevention and treatment of mandibular osteoradionecrosis (ORN) applying GRADE methodology UHMS CPG Authors: Feldmeier JJ, DuBose KJ, Gesell LB, Shah JB, Huang ET, Mansouri J, Marx RE UHMS CPG Oversight Committee: Feldmeier JJ, LeDez K, Le PNJ, Mansouri J, Moon R, Murad MH Presenting Author: John Feldmeier, DO	
	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	
	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: Anne Lindblad, PHD	
3:00 PM	3:30 PM	BREAK / EXHIBITS	Fiesta 6
3:30 PM	4:00 PM	Poster Session D-1	Fiesta 7-10
<p>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</p> <p>D 2: A clinical practice guideline for the prevention and treatment of mandibular osteoradionecrosis (ORN) applying GRADE methodology UHMS CPG Authors: Feldmeier JJ, DuBose KJ, Gesell LB, Shah JB, Huang ET, Mansouri J, Marx RE UHMS CPG Oversight Committee: Feldmeier JJ, LeDez K, Le PNJ, Mansouri J, Moon R, Murad MH Presenting Author: John Feldmeier, DO</p> <p>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</p>			

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: **Anne Lindblad, PhD**

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**

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 of hyperbaric oxygen on erectile dysfunction – Pilot study

Hadanny A, Lang E, Copel L, Meir O, Bechor Y, Fishlev G, Bergan J, Zisman A, Efrati S

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-2	Fiesta 7-10
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D 16: Radiation myelitis of cervical spinal cord successfully reversed by hyperbaric oxygen therapy

Cianci PE, Costello PJ

Presenting Author: **Paul Cianci, MD**

D 17: Adjunctive hyperbaric oxygen therapy with isavuconazonium 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: WITHDREW

D 24: WITHDREW

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: **Cristiane Antequiera Maran, 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: **Younghwan 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, Buckley J
Presenting Author: **Judy Ptak, RN/CHRN**

D 30: Closing RICH-ART study: Radiation-induced cystitis treated with hyperbaric oxygen – A randomized controlled trail

Oscarsson N, Bueller B, Seeman-Lodding H
Presenting Author: **Nicklas Oscarsson, MD**

4:30 PM	5:30 PM	Plenary Session: HBO and DFU	Fiesta 5
	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

START TIME	END TIME	EVENT	LOCATION
SATURDAY, June 30			
7:00 AM	8:00 AM	CONTINENTAL BREAKFAST / EXHIBITS	Fiesta 6
8:00 AM	10:00 AM	Plenary Session: Emerging Indications for Hyperbaric Oxygen Therapy	Fiesta 5
	8:00-8:30	Aseptic Bone Necrosis and Hyperbaric Oxygen Therapy 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: HBO ₂ Operations, Chambers, and Equipment Moderators: Gus Gustavson, RN and Kaye Moseley, RRT	Fiesta 5
	10:30-10:45	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	
	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	
11:30 AM	12:00 PM	Poster Session E	Fiesta 5
		E 1: Preprogrammed bailout and surface decompression schedules for multiplace treatment profiles Raleigh GW Presenting Author: Greg Raleigh, CHT	
		E 2: Hyperbaric oxygen simulation education Arefieva CA, Duchnick J, Bermudez R, Witucki P, Shishlov K, Sadler C Presenting Author: Christa Arefieva	

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**

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**

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: Multiplace hyperbaric chamber modifications for safe utilization of a non-hyperbaric rated cardiac monitor

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: **Cristiane Antequiera Maran, 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

Kim DU, Rao A, Kaplan S, Baksh F, Caprioli R, Haight J, Ferguson RG, Pliskin M, Oropallo A

Presenting Author: **Christina Delpin, 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**

E 15: Compartment syndrome of the forearm related to carbon monoxide intoxication

Kim GW

Presenting Author: **Gi Woon Kim, MD**

12:00 PM	1:00 PM	LUNCH	
1:00 PM	2:00 PM	Plenary Session: New Pearls of Wisdom in the Diving and Hyperbaric Medicine Literature	Fiesta 5
	1:00-1:30	Diving medicine literature update Brian Keuski, MD; Fellow, Duke Hyperbarics	
	1:30-2:00	Hyperbaric medicine literature update Lince Varughese, MD; Fellow, LSU Hyperbarics	
2:00 PM	3:00 PM	Session F: Top Case Reports Moderators: Davut Savaser, MD and Heather Murphy-Lavoie, MD	Fiesta 5
	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: Brenna Derksen, 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: Kaighley Brett, MD	
3:00 PM	3:30 PM	BREAK / EXHIBITS	Fiesta 6
3:30 PM	4:00 PM	Poster Session F	Fiesta 7-10
<p>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</p> <p>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</p> <p>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</p> <p>F 4: Taravana: A syndrome revisited: A case report Derksen BD, Savaser DJ Presenting Author: Brenna Derksen, MD</p> <p>F 5: Acute scalp necrosis successfully treated with hyperbaric oxygen therapy Johnson-Arbor K Presenting Author: Kelly Johnson-Arbor, MD</p> <p>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</p> <p>F 7: A case of trigeminal neuralgia treated with hyperbaric oxygen Huang ET Presenting Author: Enoch Huang, MD</p> <p>F 8: Cerebral AGE from upper endoscopy Popa DA, Witucki P Presenting Author: Daniel Popa, MD</p>			

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: WITHDREW

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: WITHDREW

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