

GENERAL SESSION: THURSDAY, JUNE 27 – SATURDAY, JUNE 29: RIO MAR 6-10			
THURSDAY, June 27			
7:00 AM	8:00 AM	CONTINENTAL BREAKFAST / EXHIBITS	Rio Mar 5
8:00 AM	8:30 AM	President's Address: <i>Nick Bird, MD</i>	Rio Mar 6-10
8:30 AM	10:00 AM	Plenary Session: Controversies in the Hyperbaric Management of Late Radiation Injuries. Moderator: <i>John Feldmeier, DO</i>	Rio Mar 6-10
	8:30-9:00	Late radiation tissue injury below the clavicles: Considerations with IMRT and the fibroatrophic model.: <i>John Feldmeier, DO</i>	
	9:00-9:30	Answering the criticism and challenges to HBO ₂ in the treatment of radiated patients.: <i>Robert Marx, DDS</i>	
	9:30-10:00	Panel Discussion	
10:00 AM	10:30 AM	BREAK / EXHIBITS	Rio Mar 5
10:30 AM	11:30 AM	Session A: HBO ₂ Theory & Mechanisms: Moderators: <i>George Perdrizet, MD and John Feldmeier, DO</i>	Rio Mar 6-10
	10:30-10:45	A1: HBO ₂ therapy reduces mortality, hepatic inflammation and improves renal mitochondrial function in a model of severe polymicrobial sepsis. Perdrizet GA, Halbach JL, Prieto JM, Wang, AW, Hawisher D, Cauvi DM, Reys T, Okerblom J, Ramierz-Sanchez I, Villarreal F, Patel HH, Bickler SW, De Maio A, Singh P, Li L Presenting Author: George A. Perdrizet MD	
	10:45-11:00	A3: A hyperbaric, high-oxygen environment promotes injured rat muscle recovery by angiogenesis through reactive nitrogen species. Yamamoto N, Oyaizu T, Enomoto M, Horie M, Yagishita K Presenting Author: Naoki Yamamoto MD	
	11:00-11:15	A4: Hyperbaric oxygen inhibits hyperglycemia-induced NLRP3 inflammasome and microparticle formation in neutrophils. Thom SR, Bhopale VM, Walia D Presenting Author: Stephen Thom MD	
	11:15-11:30	A5: Prevalence and pattern of cardiac injury identified by late gadolinium-enhancement of cardiac magnetic resonance image in acute moderate to severe CO poisoning with elevated high sensitivity troponin I: Prospective observational study. Cha YS, Kwon W, Son JW, Lee CH, Han SI Presenting Author: Yong Sung Cha MD	

11:30 AM	12:00 PM	<p>Poster Session A: Posters A1-A7</p> <p>A1: HBO₂ therapy reduces mortality, hepatic inflammation and improves renal mitochondrial function in a model of severe polymicrobial sepsis. Perdrizet GA, Halbach JL, Prieto JM, Wang, AW, Hawisher D, Cauvi DM, Reys T, Okerblom J, Ramierz-Sanchez I, Villarreal F, Patel HH, Bickler SW, De Maio A, Singh P, and Li L. Presenting Author: George A. Perdrizet MD</p> <p>A2: A hyperbaric and high-oxygen environment accelerates IL-6 synthesis via RNS in rat contused skeletal muscle. Oyaizu T, Enomoto M, Horie M, Yamamoto N, Yagishita K Presenting Author: Takuya Oyaizu MD</p> <p>A3: A hyperbaric, high-oxygen environment promotes injured rat muscle recovery by angiogenesis through reactive nitrogen species. Yamamoto N, Oyaizu T, Enomoto M, Horie M, Yagishita K Presenting Author: Naoki Yamamoto MD</p> <p>A4: Hyperbaric oxygen inhibits hyperglycemia-induced NLRP3 inflammasome and microparticle formation in neutrophils. Thom SR, Bhopale VM, Walia D Presenting Author: Stephen Thom MD</p> <p>A5: Prevalence and pattern of cardiac injury identified by late gadolinium-enhancement of cardiac magnetic resonance image in acute moderate to severe CO poisoning with elevated high sensitivity troponin I: Prospective observational study. Cha YS, Kwon W, Son JW, Lee CH, Han SI Presenting Author: Yong Sung Cha MD</p> <p>A6: Effects of HBO₂ on the osteogenic differentiation of human adipose-derived stem cells. Camporesi EM, Zavan B, Gardin C, Bellin G, Rizzato A, Vezzani G, Bosco G Presenting Author: Enrico M. Camporesi MD</p> <p>A7: Inflammatory hypoxia: A new, unifying target for HBO₂ therapy. Perdrizet GA Presenting Author: George A. Perdrizet, MD</p>	Rio Mar 1-4
12:00 PM	1:00 PM	LUNCH	Ocean Terrace/Rio Mar Foyer

<p>12:30 PM</p>	<p>1:00 PM</p>	<p>Poster Session B-1: Posters B1-B15</p> <p>B1: Hyperbaric oxygen therapy for the treatment of perianal fistulas in Crohn’s disease (HOT-TOPIC): preliminary results. Lansdorp CA, Gecse KB, Buskens CJ, Löwenberg M, Stoker J, Bemelman WA, D’Haens GRAM, van Hulst RA Presenting Author: Nina (Corine Alida) Lansdorp MD</p> <p>B2: The myopic shift associated with hyperbaric oxygen administration is reduced when using a mask delivery system compared to a hood - a randomized controlled trial. Bennett MH, Hui B, See HG, Au-Yeung KL, Tan C, Watson S Presenting Author: Michael Bennett MD</p> <p>B3: Efficacy and safety of postoperative radiotherapy with hyperbaric oxygen therapy for keloids. Guo D Presenting Author: Dazhi Guo MD</p> <p>B4: Effect of hyperbaric oxygen therapy for central retinal artery occlusion. Han SI, Kim YS Presenting Author: Yoonseop Kim MD</p> <p>B5: Prospective data collection through a hyperbaric outcomes registry: Preliminary results. Buckey JC, Ptak JA, Kertis JA, Rees JR Presenting Author: Jay C. Buckey MD</p> <p>B6: Efficacy and safety of hyperbaric oxygen at 2.4 ATA in the management of radiation cystitis: A retrospective study. Ajayi OD, Masters TC, Westgard BC, Logue CJ, Walter JW, Hendriksen SM Presenting Author: David Ajayi MD</p> <p>B7: Prehospital diagnosis and direct transfer to the hyperbaric chamber of carbon monoxide-intoxicated patients: a quality improvement initiative. Camporesi EM, Martani L, Cantadori L, Paganini M, Rubini A, Bosco G Presenting Author: Enrico M. Camporesi MD</p> <p>B8: The impact of hyperbaric oxygen on treating idiopathic sudden sensorineural hearing loss. McCoy ME, Helwig NE, Logue C Presenting Author: Christopher Logue, MD</p> <p>B9: Quality of life in patients with delayed effects of radiation treated with hyperbaric oxygen therapy. Famenini S, Schroeder M, Sethuraman K Presenting Author: Sam Famenini</p>	<p>Rio Mar 1-4</p>
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UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

		<p>B10: Retinal artery and vein occlusions successfully treated with hyperbaric oxygen: Case reports. Johnson DR, Cooper JS Presenting Author: Jeffrey Cooper MD</p> <p>B11: Late radiation cystitis treated with hyperbaric oxygen a randomized controlled trial. Oscarsson N, Müller B, Rosén A, Seeman-Lodding H Presenting Author: Nicklas Oscarsson MD</p> <p>B12: Osteonecrosis in children and adolescents with acute lymphoblastic leukemia (ALL): Improvement with HBO₂ in early diagnosis. Camporesi EM, Biddeci G, Bosco G, Gigante C, Garetto G, Abowali H, Putti MC Presenting Author: Enrico M. Camporesi MD</p> <p>B13: Transient myopia and associated patient factors in patients undergoing elective hyperbaric oxygen therapy. Mihai A, Wojcik S, Seargent S, Pacelli L, Heyboer M Presenting Author: Aurel Mihai MD</p> <p>B14: Does hyperbaric oxygen therapy affect etonogestrel levels from a Nexplanon implant? Kertis JA, Ptak JA, Reetz SB, Fisher TJ, Geno KA, DeJesus CL, Cremers S, Buckley JC Presenting Author: Judy A. Kertis RN/CHRN</p> <p>B15: Current myringotomy training practices across hyperbaric and undersea medicine training programs. Brett KD, Coffey CD, Bracken D, Witucki, P Presenting Author: Kaighley Brett MD</p>	
1:00 PM	2:00 PM	<p>Kindwall Memorial Keynote: HBO₂ in chronic radiation-injured tissue and osteoradionecrosis in today's radiation schemes: Needed now even more. Robert Marx, DDS</p>	Rio Mar 6-10
2:00 PM	3:00 PM	<p>Session B: Clinical HBO₂: Moderators: Enoch Huang, MD and Sandra Wainwright, MD</p>	Rio Mar 6-10
	2:00-2:10	<p>B1: Hyperbaric oxygen therapy for the treatment of perianal fistulas in Crohn's disease (HOT-TOPIC): preliminary results. Lansdorp CA, Gecse KB, Buskens CJ, Löwenberg M, Stoker J, Bemelman WA, D'Haens GRAM, van Hulst RA Presenting Author: Nina (Corine Alida) Lansdorp MD</p>	
	2:10-2:20	<p>B2: The myopic shift associated with hyperbaric oxygen administration is reduced when using a mask delivery system compared to a hood – a randomized controlled trial. Bennett MH, Hui B, See HG, Au-Yeung KL, Tan C, Watson S Presenting Author: Michael Bennett MD</p>	

UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

	2:20-2:30	B3: Efficacy and safety of postoperative radiotherapy with hyperbaric oxygen therapy for keloids. Guo D Presenting Author: Dazhi Guo MD	
	2:30-2:40	B4: Effect of hyperbaric oxygen therapy for central retinal artery occlusion. Han SI, Kim YS Presenting Author: Yoonseop Kim MD	
	2:40-2:50	B5: Prospective data collection through a hyperbaric outcomes registry: Preliminary results. Buckey JC, Ptak JA, Kertis JA, Rees JR Presenting Author: Jay C. Buckey MD	
	2:50-3:00	B6: Efficacy and safety of hyperbaric oxygen at 2.4 ATA in the management of radiation cystitis: A retrospective study. Ajayi OD, Masters TC, Westgard BC, Logue CJ, Walter JW, Hendriksen SM Presenting Author: David Ajayi MD	
3:00 PM	3:30 PM	BREAK / EXHIBITS	Rio Mar 5
3:30 PM	4:00 PM	Poster Session B-2: Posters B16-B27 B16: Ketamine sedation for hyperbaric oxygen therapy in hypotensive patients. Mihai A, Heyboer M Presenting Author: Aurel Mihai MD B17: Effects of hypoxia on N100 and P300 event-related potentials during visuospatial attention control. Hutcheon EA, Nunes AS, Ribrary U, Ferguson SA, Claydon VE, Doesburg SM Presenting Author: Sherri Ferguson B18: BK viral-induced hemorrhagic cystitis and the role of HBO ₂ therapy. Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill DO B19: Clinical and radiographic improvement in bisphosphonate-related osteonecrosis of the mandible with hyperbaric oxygen therapy: A case report. Shields RC, Toups GN, Price DL Presenting Author: Raymond C. Shields MD B20: Well-controlled diabetics safely receive serial hyperbaric oxygen treatments without serial blood glucose checks. Mihai A, Morgan M, Sharma D, Santiago W, Heyboer M Presenting Author: Aurel Mihai MD	Rio Mar 1-4

UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

		<p>B21: The use of hyperbaric oxygen therapy to treat an anaerobic retroperitoneal abscess with extension into the mediastinum. Long JS, Foster JM, Cooper JS Presenting Author: Jeffrey Cooper MD</p> <p>B22: Uneventful serial hyperbaric oxygen treatments in setting of cerebral vasoconstriction syndrome. Mihai A, Sharma D, Boes T, Morgan M, Santiago W, Heyboer M Presenting Author: Aurel Mihai MD</p> <p>B23: An innovative design employing Medicare claims data to demonstrate a cost savings for hyperbaric oxygen in the treatment of radiation cystitis and proctitis. Feldmeier JJ, Kirby JP, Gelly HB, Robins MS, DaVanzo JE, and Gruhn P Presenting Author: John J. Feldmeier DO</p> <p>B24: WITHDRAWN</p> <p>B25: Case report: The role of HBO₂ therapy in a spider bite. Borges H, Oliveira N, Paz MA, Santos PE Presenting Author: Hugo Leonardo De Lima Borges MD</p> <p>B26: Case report: HBO₂ therapy avoiding amputation in serious osteomyelitis of ankle. Borges H, Oliveira N, Paz MA, Santos PE Presenting Author: Hugo Leonardo De Lima Borges MD</p> <p>B27: Variations in study outcomes relative to intention-to-treat and per-protocol data analysis techniques in the evaluation of efficacy for treatment of venous leg ulcers with dehydrated human amnion/chorion membrane allograft. Bianchi C, Tettelbach W, Istwan N, Hubbs B, Kot K, Harris S, Fetterolf D. Presenting Author: William Tettelbach MD</p>	
4:00 PM	5:00 PM	Plenary Session: Physiology and Science in Hyperbaric Medicine Moderator: Enoch Huang, MD	Rio Mar 6-10
	4:00-4:30	Stem cells and hyperbaric oxygen therapy.: Stephen Thom, MD	
	4:30-5:00	Research that we need to do in the field of hyperbaric medicine and some thoughts on how to achieve this goal.: John Feldmeier, DO	
6:00 PM	7:00 PM	Exhibitor Wine & Cheese Reception	Rio Mar 5

FRIDAY, June 28			
7:00 AM	8:00 AM	CONTINENTAL BREAKFAST / EXHIBITS	Rio Mar 5
8:00 AM	10:00 AM	Plenary Session: DCI Theory and Mechanisms: Moderator: Nick Bird, MD	Rio Mar 6-10
	8:00-9:00	CNS oxygen toxicity: Where are we now? <i>Jay Dean, PhD</i>	
	9:00-9:30	Navy dive operations: Lessons learned about planning, DCS prevention and treatment.: <i>Pete Witucki, MD</i>	
	9:30-10:00	Wearable diving technology.: <i>Ki Chon, MD</i>	
10:00 AM	10:30 AM	BREAK / EXHIBITS	Rio Mar 5
10:30 AM	11:30 AM	Session C: Decompression Theory and Mechanisms: Moderators: Enoch Huang, MD and Richard Moon, MD	Rio Mar 6-10
	10:30-10:40	C1: A predictive model of serious decompression sickness following loss of spacecraft cabin pressure. Gernhardt ML, Abercromby AFJ Presenting Author: Michael Gernhardt PhD C2: Modeling decompression stress associated with surface interval freediving in recreational diving. Gernhardt ML, Bekdash OS Presenting Author: Michael L. Gernhardt PhD	
	10:40-10:50	C3: Albumin-derived perfluorocarbon-based nanocapsules as an effective preventive therapy of decompression illness: Well-proven wine in new bottles. Mayer D, Guerrero F, Goanvec C, Ljubcovic M, Mayer C, Kirsch M, Ferez KB Presenting Author: Dirk Mayer MD	
	10:50-11:00	C4: Validation of an exhaled nitric oxide model of pulmonary hyperoxic stress. Fothergill DM, Ross WL, Florian JP Presenting Author: David Fothergill PhD	
	11:00-11:10	C5: Tetranomial probabilistic modeling of serious, mild, marginal and no decompression sickness. King AE, Andriano NR, Howle LE, Vann RD Presenting Author: Amy King	
	11:10-11:20	C6: The protective effects of synthetic ketone ester BD-AcAc2 on rats with decompression sickness. Zhang K, Xu WG Presenting Author: Kun Zhang MD	
	11:20-11:30	C7: Development and limited validation of the XVal-He-9_040 Thalmann algorithm parameter set for computing decompression schedules for extended duration 1.3 atm PO ₂ He-O ₂ diving. Doolette DJ, Murphy FG, Gerth WA Presenting Author: David J Doolette PhD	

<p>11:30 AM</p>	<p>12:00 PM</p>	<p>Poster Session C: Posters C1-C11</p> <p>C1: A predictive model of serious decompression sickness following loss of spacecraft cabin pressure. Gernhardt ML, Abercromby AFJ Presenting Author: Michael Gernhardt PhD</p> <p>C2: Modeling decompression stress associated with surface interval freediving in recreational diving. Gernhardt ML, Bekdash OS Presenting Author: Michael L. Gernhardt PhD</p> <p>C3: Albumin-derived perfluorocarbon-based nanocapsules as an effective preventive therapy of decompression illness: Well-proven wine in new bottles. Mayer D, Guerrero F, Goanvec C, Ljubcovic M, Mayer C, Kirsch M, Ferenz KB Presenting Author: Dirk Mayer MD</p> <p>C4: Validation of an exhaled nitric oxide model of pulmonary hyperoxic stress. Fothergill DM, Ross WL, Florian JP Presenting Author: Dr. David Fothergill PhD</p> <p>C5: Tetranomial probabilistic modeling of serious, mild, marginal and no decompression sickness. King AE, Andriano NR, Howle LE, Vann RD Presenting Author: Amy King</p> <p>C6: The protective effects of synthetic ketone ester BD-AcAc2 on rats with decompression sickness. Zhang K, Xu WG Presenting Author: Kun Zhang MD</p> <p>C7: Development and limited validation of the XVal-He-9_040 Thalmann algorithm parameter set for computing decompression schedules for extended duration 1.3 atm PO₂ He-O₂ diving. Doolette DJ, Murphy FG, Gerth WA Presenting Author: David J Doolette PhD</p> <p>C8: The biphasic effects of autophagy on decompression bubble-induced endothelial injuries. Zhang K, Xu WG Presenting Author: Kun Zhang MD</p> <p>C9: Benefits of escin for decompression sickness in Bama pigs by endothelia-targeting protection. Qing I, Xu WG Presenting Author: Weigang Xu MD</p>	<p>Rio Mar 1-4</p>
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UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

		<p>C10: Experimental testing of cross corrections to decompression tables for dives at altitude. Weis TW, Dong TW, Natoli MJ, Lance RM, Howle LE, Pieper CF, Freiburger JJ, Derrick BJ, Moon RE Presenting Author: Richard E Moon MD</p> <p>C11: Cognitive control performance during increasing ambient pressure: Event-related brain potential study. Fujii T Presenting Author: Tatsufumi Fujii PhD</p>	
12:00 PM	1:00 PM	LUNCH	Ocean Terrace/Rio Mar Foyer
12:30 PM	1:00 PM	<p>Poster Session D-1: Posters D1-D15</p> <p>D1: Ketogenic diet for reduction of CNS oxygen toxicity in working divers (KetOX Study): Pilot study. Allen J, Orabi M, Bahaadin Al-Jarani, Gonzalez S, Dong TW, Natoli MJ, Richardson C, Brown G, Walker AJ, Schinazi EA, Kuchibhatla M, D'Agostino DP, Keuski BM, Moon RE, Freiburger JJ, Derrick BJ Presenting Author: Justin Allen DO</p> <p>D2: Comparison of dysbaric osteonecrosis severity in the u/w sheep model after a 24-hour dive at 33 fsw followed by either a 15-, 30-, or 45-minute oxygen pre-breathe before dropout decompression. Lamers JL, Sobakin AS Presenting Author: Jake Lamers</p> <p>D3: Manned validation of U.S. Navy Diving Manual, Revision 7, VVal-79 air decompression schedules for short bottom times in the 130-140 fsw range. Andrew BT, Doolette DJ Presenting Author: Brian T. Andrew MD</p> <p>D4: Improving safety of submarine escape and rescue from 60 and 70 fsw Eldridge MW, Sobakin AS Presenting Author: Aleksey Sobakin PhD</p> <p>D5: A graphical user interface for expediting bubble-counting analysis of post-dive echocardiograms and statistics for vetting crowdsourcing contributions. Barrentine B, Le DQ, Germonpré P, Balestra C, Tillmans F, Denoble PJ, Freiburger JJ, Moon RE, Dayton PA, Papadopoulou V Presenting Author: David Q Le</p> <p>D6: Detecting pulmonary oxygen toxicity using exhaled breath analysis: Wet and dry diving are not the same. Wingelaar TT, Brinkman P, van Ooij PJAM, Maitland-Van der Zee AH, van Hulst RA Presenting Author: Thijs Wingelaar MD</p>	Rio Mar 1-4

		<p>D7: A robust image-processing method for selecting frames during late ventricular diastole in post-dive echocardiography without ECG gating. Markley E, Le DQ, Germonpré P, Balestra C, Tillmans F, Denoble PJ, Freiburger JJ, Moon RE, Dayton PA, Papadopoulou V Presenting Author: David Q Le</p> <p>D8: Acute bone necrosis in cases of decompression sickness with refractory pain despite hyperbaric treatment. Calderon, J. Mansilla, Y. Cabrera, M. Mansilla, C. Estrada. J Presenting Author: Jorge Calderon MD</p> <p>D9: Dysbaric osteonecrosis among the artisanal diving fishermen in Yucatan, Mexico Popa D, Chin W, Huchim-Lara O, Medak A, Hughes T, Grover I. Presenting Author: Daniel Popa, MD</p> <p>D10: Manual dexterity and finger skin temperature is reduced in cold water and is not preserved with whole-body active heating. Wheelock CE, Hess HW, Hostler D Presenting Author: Courtney Wheelock</p> <p>D11: A deep-learning approach for automated bubble counting in 2D echocardiography of divers. Le DQ, Kierski TM, Markley E, Germonpré P, Balestra C, Tillmans F, Denoble PJ, Freiburger JJ, Moon RE, Dayton PA, Papadopoulou V Presenting Author: David Q Le</p> <p>D12: WITHDREW</p> <p>D13: The effect of sudden drop in partial pressure of oxygen during ascent on heart function. Ferguson SA, Poburko D, Claydon VE, Koehle M, Ruben PC Presenting Author: Sherri Ferguson</p> <p>D14: Pulmonary edema in special operations assessments. Tanaka HL, Wightman JM, Ott MC Presenting Author: Hideaki L. Tanaka MD</p> <p>D15: The effect of oxygen and nitrogen on nitrogen narcosis severity. Ferguson SA, Hutcheon EA, Doesburg SM Presenting Author: Sherri Ferguson</p>	
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UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

1:00 PM	2:00 PM	Lambertsen Keynote: Decompression sickness as an inflammatory disease <i>Simon Mitchell, MBBS, PhD</i>	Rio Mar 6-10
2:00 PM	3:00 PM	Session D: Diving Medicine: Moderators: Jake Freiburger, MD and Bradley Walker, RN	Rio Mar 6-10
	2:00-2:10	D1: Ketogenic diet for reduction of CNS oxygen toxicity in working divers (KetOX Study): Pilot study. Allen J, Orabi M, Bahaadin Al-Jarani, Gonzalez S, Dong TW, Natoli MJ, Richardson C, Brown G, Walker AJ, Schinazi EA, Kuchibhatla M, D'Agostino DP, Keuski BM, Moon RE, Freiburger JJ, Derrick BJ Presenting Author: Justin Allen DO	
	2:10-2:20	D2: Comparison of dysbaric osteonecrosis severity in the u/w sheep model after a 24-hour dive at 33 fsw followed by either a 15-, 30-, or 45-minute oxygen pre-breathe before dropout decompression. Lamers JL, Sobakin AS Presenting Author: Jake Lamers	
	2:20-2:30	D3: Manned validation of U.S. Navy Diving Manual, Revision 7, VVal-79 air decompression schedules for short bottom times in the 130-140 fsw range. Andrew BT, Doolette DJ Presenting Author: Brian T. Andrew MD	
	2:30-2:40	D4: Improving safety of submarine escape and rescue from 60 and 70 FSW Eldridge MW, Sobakin AS Presenting Author: Aleksey Sobakin PhD	
	2:40-2:50	D5: A graphical user interface for expediting bubble-counting analysis of post-dive echocardiograms and statistics for vetting crowdsourcing contributions. Barrentine B, Le DQ, Germonpré P, Balestra C, Tillmans F, Denoble PJ, Freiburger JJ, Moon RE, Dayton PA, Papadopoulou V Presenting Author: David Q Le	
	2:50-3:00	D6: Detecting pulmonary oxygen toxicity using exhaled breath analysis: Wet and dry diving are not the same. Wingelaar TT, Brinkman P, van Ooij PJAM, Maitland-Van der Zee AH, van Hulst RA Presenting Author: Thijs Wingelaar MD	
3:00 PM	3:30 PM	BREAK / EXHIBITS	Rio Mar 5
3:30 PM	4:00 PM	Poster Session D-2: Posters D16-D28 D16: Self-paced exercise performance is attenuated following four hours of cold water immersion irrespective of breathing gas type. Hess HW, Schlader ZJ, Johnson BD, Hostler D Presenting Author: Hayden W. Hess	Rio Mar 1-4

		<p>D17: Does the use of normobaric oxygen in Swedish working divers underestimate the incidence of decompression illness? Hagberg M, Ornahgen H Presenting Author: Mats Hagberg MD</p> <p>D18: Optimizing oxygenation, hemodynamics and metabolism during diving by using underwater near-infrared spectroscopy (NIRS). Whelan H, Ari C, Prost R, Sugar J, D'Agostino D, Quirk B, Dituri J, Harper Z, Aderman T, Fahlman A, McKnight C, Tyack P, Shorter A, Popa B, Williams T, Chapman S Presenting Author: Harry T. Whelan MD</p> <p>D19: WITHDREW</p> <p>D20: Lionfish stings in Cozumel, eight-year follow-up. Gomez-Castillo JD Presenting Author: J Dario Gomez Castillo MD</p> <p>D21: Cancer and diving: data from 124 UK sport divers. St Leger Dowse M, Morgan B, Smerdon GR Presenting Author: Marguerite St Leger Dowse</p> <p>D22: Pathophysiology of dysbaric osteonecrosis. Kawashima M, Kawashima M, Tamura H, Takao K, Yamaguchi T, Miyata K, Kitano M Presenting Author: Mahito Kawashima MD</p> <p>D23: Thermoregulation in environmental conditions expected in a disabled pressurized rescue module. Schlader ZJ, Stooks J, Johnson BD, Hostler D Presenting Author: Zachary J. Schlader PhD</p> <p>D24: Required sample sizes for testing cardiovascular effects of normobaric scuba regulator breathing without immersion: A pilot trial. Kovacs CR, Buzzacott P Presenting Author: Christopher Kovacs PhD</p> <p>D25: A technical review of ultrasound use in decompression research. Le DQ, Dayton PA, Tillmans F, Freiberger JJ, Moon RE, Denoble PJ, Papadopoulou V Presenting Author: David Q Le</p>	
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UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

		<p>D26: Retreatment with a TT6A1M for neurological decompression illness in patients with a poor response to standard treatment with a USN TT6. McEldrew P, Siegel M, LeGros TL, Wyatt A, and Van Meter K Presenting Author: Patrick McEldrew, MD</p> <p>D27: Dive profiles and physiologic parameters of safety divers at a breath-hold diving competition. Derksen B, Lang M, Lindholm P, Van Hoesen K Presenting Author: Brenna Derksen MD</p> <p>D28: No change in total mood disturbance during a simulated disabled pressurized rescue module scenario. Johnson BD, Hess HW, Stooks J, Hostler D, Schlader ZJ Presenting Author: Blair Johnson PhD</p> <p>F12: Against most odds: A case study, limb salvage. Crapella L Presenting Author: Lise Crapella ACNP/PA</p>	
4:00 PM	5:00 PM	Plenary Session: Altitude Decompression Sickness: Moderator: Heather Murphy-Lavoie, MD	Rio Mar 6-10
	4:00-4:30	Combating flier's "bends" during unpressurized flight and explosive decompression in World War II.: Jay Dean, PhD	
	4:30-5:00	USAF hypobaric exposures experience.: Marc Robins, DO	
5:00 PM	6:00 PM	UHMS Business Meeting - Open meeting	Rio Mar 6-10

SATURDAY, June 29

7:00 AM	8:00 AM	CONTINENTAL BREAKFAST / EXHIBITS	Rio Mar 5
8:00 AM	5:00 PM	Non-Physician "Associates" Breakout Session (not approved for physician CME credits)	Caribbean 2-3
8:00 AM	10:00 AM	Plenary Session: The Regulatory and Reimbursement Challenges Facing Nations and How These Have Been Addressed Moderator: Ron Linden, MD	Rio Mar 6-10
	8:00-8:25	Canada: Ken LeDez, MD	
	8:25-8:50	United Kingdom: Pieter Bothma, MD	
	8:50-9:15	United States: Caroline Fife, MD	
	9:15-9:40	Australia: Michael Bennett, MD	
	9:40-10:00	Panel Discussion	
10:00 AM	10:30 AM	BREAK / EXHIBITS	Rio Mar 5

UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

10:30 AM	11:30 AM	Session E: HBO₂ Operations, Chambers and Equipment Moderators: Owen O' Neill, MD and Kaye Moseley, CHT	Rio Mar 6-10
	10:30-10:40	E1: Use of point of care ultrasounds for the rapid diagnosis of central retinal artery occlusion. McCarthy P, Hendriksen SM, Masters TC, Westgard BC, Walter JW, Osterman A, Reardon RF, Logue CJ Presenting Author: Christopher Logue MD	
	10:40-10:50	E2: Comparison of radial artery catheter blood pressure with automatic non-invasive blood pressure at 35 fsw on 100% O ₂ . Orabi M, Allen J, Gonzalez S, Natoli MJ, Freiburger JJ, Derrick BJ Presenting Author: Maia Orabi MD	
	10:50-11:00	E3: Reliability of a continuous glucose monitor during hyperbaric oxygen exposure: Interim analysis. Huang E, Savaser D, Castle J, Manulik B, Demirel S, Bliss B, Fitzpatrick P Presenting Author: Enoch Huang MD E4: Safety of a continuous glucose monitoring device during hyperbaric exposure. Bliss C, Huang E, Savaser D Presenting Author: Chae Bliss CHT	
	11:00-11:10	E5: Pressure-related effects on sterile single-use expired medication (PRESS-EM) vials study. Savaser DJ, Huang ET, Bliss C, Deshazer JA, Marshall KZ Presenting Author: Davut Savaser MD	
	11:10-11:20	E6: Culturally competent hyperbaric patient care. Marosek N, Melnyczenko A Presenting Author: Nicholas Marosek RN/CHRN	
	11:20-11:30	E7: Implementation and evaluation of an interdisciplinary, simulation-based educational curriculum in hyperbaric medicine. Paetow G, Guber K, Raleigh S, TenBrink W, Driehorst M, Brown L, Jensen A, Omodt S, Olives T, Hart D, Logue C Presenting Author: Christopher Logue MD E8: Interdisciplinary simulation for the detection of latent risk threats in a hyperbaric medicine department. Paetow G, TenBrink W, Driehorst M, Brown L, Jensen A, Omodt S, Hart D, Logue C Presenting Author: Christopher Logue MD	
11:30 AM	12:00 PM	Poster Session E: Poster E1-E14 E1: Use of point of care ultrasounds for the rapid diagnosis of central retinal artery occlusion. McCarthy P, Hendriksen SM, Masters TC, Westgard BC, Walter JW, Osterman A, Reardon RF, Logue CJ Presenting Author: Christopher Logue MD E2: Comparison of radial artery catheter blood pressure with automatic non-invasive blood pressure at 35 fsw on 100% O ₂ . Orabi M, Allen J, Gonzalez S, Natoli MJ, Freiburger JJ, Derrick BJ Presenting Author: Maia Orabi MD	Rio Mar 1-4

	<p>E3: Reliability of a continuous glucose monitor during hyperbaric oxygen exposure: Interim analysis. Huang E, Savaser D, Castle J, Manulik B, Demirel S, Bliss B, Fitzpatrick P Presenting Author: Enoch Huang MD</p> <p>E4: Safety of a continuous glucose monitoring device during hyperbaric exposure. Bliss C, Huang E, Savaser D Presenting Author: Chae Bliss CHT</p> <p>E5: Pressure-related effects on sterile single-use expired medication (PRESS-EM) vials study. Savaser DJ, Huang ET, Bliss C, Deshazer JA, Marshall KZ Presenting Author: Davut Savaser MD</p> <p>E6: Culturally competent hyperbaric patient care. Marosek N, Melnyczenko A Presenting Author: Nicholas Marosek RN/CHRN</p> <p>E7: Implementation and evaluation of an interdisciplinary, simulation-based, educational curriculum in hyperbaric medicine. Paetow G, Guber K, Raleigh S, TenBrink W, Driehorst M, Brown L, Jensen A, Omodt S, Olives T, Hart D, Logue C Presenting Author: Christopher Logue MD</p> <p>E8: Interdisciplinary simulation for the detection of latent risk threats in a hyperbaric medicine department. Paetow G, TenBrink W, Driehorst M, Brown L, Jensen A, Omodt S, Hart D, Logue C Presenting Author: Christopher Logue MD</p> <p>E9: U.S. involvement in the Thai cave rescue. Tanaka HL Presenting Author: Hideaki L Tanaka MD</p> <p>E10: WITHDRAWN</p> <p>E11: Successful cardiac defibrillation during hyperbaric oxygen therapy in a patient with severe carbon monoxide poisoning. Allen JA, Shah KR, Moon RE Presenting Author: Justin Allen DO</p>	
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UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

		<p>E12: Pilot study on the feasibility of utilization of an Epi-Pen under pressure in a multiplace chamber. Savaser DJ, Huang ET, Bliss C Presenting Author: Davut Savaser MD</p> <p>E13: Emergency response by hyperbaric personnel. Vidafar M Presenting Author: Michael Vidafar CHT</p> <p>E14: Oxygen exhaust sign improvement. Vidafar M Presenting Author: Michael Vidafar CHT</p>	
12:00 PM	1:00 PM	LUNCH	Ocean Terrace/Rio Mar Foyer
12:00 PM	1:00 PM	Associates Luncheon (limited to 50)	Caribbean 1
1:00 PM	2:00 PM	<p>Plenary Session Moderator: Heather Murphy-Lavoie, MD</p>	Rio Mar 6-10
	1:00-1:30	HBO ₂ and inflammatory bowel disease update.: <i>Jay Buckley, MD</i>	
	1:30-2:00	Diving, operational and environmental physiology of the Thai cave rescue.: <i>Richard Walker, MD</i>	
2:00 PM	3:00 PM	<p>Session F: Top Case Reports Moderators: Laurie Gesell, MD and Tracy LeGros, MD</p>	Rio Mar 6-10
	2:00-2:10	<p>F1: Tension pneumocephalus: Iatrogenic subarachnoid air embolism treated with hyperbaric oxygen therapy. Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill DO</p>	
	2:10-2:20	<p>F2: Carbon monoxide poisoning; Mixed-acid cocktail suicide attempt. Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill DO</p>	
	2:20-2:30	<p>F3: A case of delayed mortality after severe arterial gas embolism secondary to myocardial infarction from triple-vessel coronary artery thrombosis. Derksen BJ, Hayden SR, Grover I, Sadler CA Presenting Author: Charlotte Sadler MD</p>	
	2:30-2:40	<p>F4: De novo cataract formation in non-diabetics. Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill MD</p>	
	2:40-2:50	<p>F5: A rare case report of coronary gas embolism after percutaneous lung biopsy. Allen JA, Mammarrappallil JG Presenting Author: Justin Allen DO</p>	

UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

2:50-3:00		<p>F6: Successful treatment of laryngotracheal radionecrosis with hyperbaric oxygen therapy in a patient presenting with persistent hemoptysis and cough. Savaser DJ, Huang ET Presenting Author: Davut Savaser MD</p>	
3:00 PM	3:30 PM	BREAK / EXHIBITS	Rio Mar 5
3:30 PM	4:00 PM	<p>Poster Session F: Posters F1-F15</p> <p>F1: Tension pneumocephalus: Iatrogenic subarachnoid air embolism treated with hyperbaric oxygen therapy. Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill DO</p> <p>F2: Carbon monoxide poisoning; Mixed-acid cocktail suicide attempt Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill DO</p> <p>F3: A case of delayed mortality after severe arterial gas embolism secondary to myocardial infarction from triple-vessel coronary artery thrombosis. Derksen BJ, Hayden SR, Grover I, Sadler CA Presenting Author: Brenna Derksen MD</p> <p>F4: De novo cataract formation in non-diabetics. Gaskill Z, Hardy K, Kassem J, Kelly M, Lambert D Presenting Author: Zachary Gaskill MD</p> <p>F5: A rare case report of coronary gas embolism after percutaneous lung biopsy Allen JA, Mammarrappallil JG Presenting Author: Justin Allen DO</p> <p>F6: Successful treatment of laryngotracheal radionecrosis with hyperbaric oxygen therapy in a patient presenting with persistent hemoptysis and cough. Savaser DJ, Huang ET Presenting Author: Davut Savaser MD</p> <p>F7: Hyperbaric oxygen treatment for delayed radiation-induced esophageal stricture Dullum D Presenting Author: Diane Dullum RN/CHRN</p> <p>F8: Diving with Osler-Weber-Rendu disease: A rare case provoking thoughts Swenker R, van Ooij PJ Presenting Author: Rob Swenker MD</p>	Rio Mar 1-4

UNDERSEA AND HYPERBARIC MEDICAL SOCIETY

		<p>F9: Hyperbaric oxygen treatment of patient with tracheal-esophageal device and recent thoracic surgery. Mihai A, Morgan M, Sharma D, Boes T, Santiago W, Heyboer M Presenting Author: Aurel Mihai MD</p> <p>F10: Successful treatment of medication-related jaw osteonecrosis with hyperbaric oxygen therapy using a Marx protocol-like approach. Hodgson J Presenting Author: Joni Hodgson DO</p> <p>F11: Hyperbaric oxygen treatment status post gamma knife surgery improves progressively worsening neurological symptoms. Mihai A, Morgan M, Sharma D, Santiago W, Heyboer M. Presenting Author: Aurel Mihai MD</p> <p>F12: Against most odds: A case study, limb salvage. (Being presented on Friday, June 28: 3:30pm-4:00pm) Crapella L Presenting Author: Lise Crapella ACNP/PA</p> <p>F13: Innovative use of dehydrated human amnion/chorion membrane in conjunction with hyperbaric oxygen therapy to treat a non-healing nasal wound subsequent to squamous cell carcinoma resection and radiation: A case study. Henderson JA, Jones MW, Houle SS Presenting Author: Jessica Henderson DO</p> <p>F14: Case report: High-throughput enterocutaneous fistula and the role of HBO₂ therapy. Borges H, Oliveira N, Paz MA, Santos PE Presenting Author: Hugo Leonardo De Lima Borges MD</p> <p>F15: A case of vertigo in a recreational scuba diver. Agostinelli N Presenting Author: Nicole Agostinelli MD</p>	
4:00 PM	5:00 PM	Plenary Session: Topics in Undersea and Hyperbaric Medicine Moderator: Tracy LeGros, MD	Rio Mar 6-10
	4:00-4:30	Top articles in HBO ₂ : Fellow, Duke, Durham, NC, Justin Allen, DO	
	4:30-5:00	Top articles in Undersea Medicine.: Fellow, SUNY, Syracuse, NY, Aurel Mihai, MD	
7:00 PM	10:00 PM	Awards Banquet (a separate fee if you wish to attend; if you did not pay ahead, you need to let us know by Thursday evening)	Rio Mar 5
10:00 PM	12:00 AM	After Party (separate fee)	Ocean Terrace/Caribbean 2-3