

## *Curriculum vitae*

**Date Prepared:** February 26, 2021

**Name:** Renie Rafael Guilliod Troconis, M.D., FUHM

**Present Title:** **Medical and Program Director:**  
Hyperbaric, Diving, Altitude, and Aerospace Medicine Program  
Institute for Exercise and Environmental Medicine (IEEM)  
Texas Health Presbyterian Hospital Dallas / UT Southwestern Medical Center

**Assistant Professor:**  
Departments of Physical Medicine and Rehabilitation, and Anesthesiology & Pain Management.  
UT Southwestern Medical School. Dallas, Texas

**Program Director:**  
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**Venezuelan Citizenship**

**U.S. Permanent Resident**

## **Graduate Education**

Year	Degree	Field of Study	Institution
1980 – 1983* 1989 – 1991  * I interrupted my medical studies in 1984 (non-enrollment period) to pursue the commercial diving career for four years (as Diver, Diving Supervisor / Superintendent, and Diving Medical Officer)	M.D.	Doctor of Medicine (7 years program). When I studied medicine, my medical school included 1 additional year of basic medical courses in the curriculum (“Escuela Basica de Medicina de la UCV”). Currently the medical school program is of 6 years.  <a href="http://www.ucv.ve/organizacion/facultades/facultad-de-medicina/dependencias/coordinacion-academica/departamento-de-control-de-estudio/programas-del-basico.html">http://www.ucv.ve/organizacion/facultades/facultad-de-medicina/dependencias/coordinacion-academica/departamento-de-control-de-estudio/programas-del-basico.html</a>	Luis Razetti Medical School, Central University of Venezuela, Caracas, Venezuela. Medical School Code: 93501
09/1991 – 08/1992	Medical Internship	Supervised practice in Internal Medicine, Surgery, Pediatric, Obstetrics and Gynecology.	Hospital Dr Jose Maria Vargas Instituto Venezolano de los Seguros Sociales, La Guaira, Estado Vargas, Venezuela

## **Post-Graduate Education**

Year(s)	Titles	Specialty/Discipline	Institution
06/1993 – 08/1994	Fellowship	Hyperbaric Medicine	R. Adams Cowley Shock Trauma Center, Department of Emergency Medicine, University of Maryland Medical Center, Baltimore, MD
02/1994 – 05/1994	US Navy Diving Medical Officer	US Navy Diving Medical Officer (DMO) Course (Class Number: 94010)	Naval Diving and Salvage Training Center, Panama City, FL
12/1994 – 12/1995	Rural Residency	Broad based exposure to internal medicine, surgery, Ob/Gyn, Emergency Medicine, and Pediatrics in rural/underserved areas.	Hospital Eudoro Gonzalez Carayaca, Estado Vargas, Venezuela

12/2001 – 12/2004	Anesthesiology Residency	Anesthesiology  Thesis: Guilliod R. “Desaturación de oxígeno en anestesia (Oxygen Desaturation in Anesthesia)  Special Publishing Award “Mención Publicación”.  Universidad Central de Venezuela.	Hospital Dr. Carlos Arvelo Universidad Central de Venezuela. Caracas, Venezuela
10/2015	NOAA / UHMS (National Oceanic and Atmospheric Administration / Undersea and Hyperbaric Medical Society) Diving Medical Officer Course	Physician Training in Diving Medicine - DMAC/EDTC med Level IIb certified to perform fitness to dive examinations, manage diving accidents and advise on diving medicine and physiology	NOAA Diving Center. Seattle, WA, USA

### **Current Medical Licensure and Certification**

#### **Licensure**

1992 to present: Venezuelan Medical License

2015 to 2020: United States: Faculty Temporary Texas Medical Licenses

2020 to present: United States: Full Texas Medical License: Conceded Eminence License # CE00005

#### **Board and Other Certification**

2004 – Present: Venezuelan Board Certified in Anesthesiology

2018 – 2028: American Board Certified in Undersea and Hyperbaric Medicine (American Board of Preventive Medicine).

### **Faculty Academic Appointments**

Year(s)	Academic Title	Department / Division	Academic Institution
11/05 – 10/08	Assistant Professor	Anesthesiology / Hyperbaric Medicine	The University of Texas Medical School at Houston, TX
11/2008-2015	Assistant Professor	Internal Medicine / Hyperbaric Medicine	The University of Texas Medical School at Houston, TX
09/2016- Present	Assistant Professor	Internal Medicine, Anesthesiology and Pain Management, and Physical Medicine and Rehabilitation / Hyperbaric Medicine	UT Southwestern Medical Ctr., Dallas, TX

05/2017- Present	Program Director. ACGME - Undersea and Hyperbaric Medicine Fellowship Program.	Emergency Medicine.	UT Southwestern Medical Ctr., Dallas, TX
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### **Appointments at Hospitals/Affiliated Institutions**

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
2005 - 2015	Director of Research and Academic Program (Hyperbaric Medicine)	Anesthesiology Department (2005 – 2008), Internal Medicine Department (2008 – 2015) / Hyperbaric Medicine Division	UT Health, Houston, TX (UT Medical School Houston)

<u>Current</u>			
Year(s)	Position Title	Department/Division	Institution
2016 – Present	Attending Physician - Medical Director and Director of Academic Program	Internal Medicine. Hyperbaric Medicine Unit	Institute for Exercise and Environmental Medicine / Texas Health Presbyterian Hospital Dallas / UT Southwestern Medical Center, Dallas, TX

### **Other Professional Positions**

Year(s)	Position Title	Institution
1984 – 2005	Director of the Medical Commission	Venezuelan Underwater Federation, Caracas, Venezuela
1984 – 1989	Diving Medical Officer, diving supervisor, superintendent and diver conducting diving projects	Venezuelan Petroleum Company
1986 – 2008	Medical Director	Venezuelan Emergency Network for Diving Accidents, Caracas, Venezuela. Venezuelan Underwater Federation.
1992 - present	Diving Medicine Specialist: Telemedicine for treatment of hundreds of injured divers.	Venezuelan Underwater Federation. Commercial Diving Companies in Venezuela.
1994 – 2001	Diving Medical Officer, diving supervisor, superintendent and diver conducting diving projects	Venezuelan Petroleum Company
1994- 2001	Private Practice Physician in Primary Care, Emergency Medicine, Hyperbaric and Diving Medicine	Private Practice. Caracas, Venezuela

2004 –2005	Anesthesiologist	Locum Tenens, Caracas, Venezuela
2004 – 2005	Anesthesiologist	Instituto Clinico La Florida Departamento de Anestesiología, Caracas, Venezuela
2015 - 2016	Diving Medical Officer: Telemedicine for treatment of injured divers and medical consultant.	Oriente Marine Group, CA. Venezuela

### **Major Administrative/Leadership Positions**

Year(s)	Position Title	Institution
1986 – 2005	Medical Director of the Venezuelan Emergency Network for Diving Accidents.	Venezuelan Emergency Network for Diving Accidents. Venezuelan Underwater Federation.
1997 – 1999	Chair of the Safety Guidelines Subcommittee. Latin-American Chapter of UHMS.	Undersea and Hyperbaric Medical Society.
1999 – 2005	Medical Director / Medical liaison: Latin America Emergency Hotline, Area 3: Ecuador, Colombia, Venezuela, Guyanas, Peru,	International Divers Alert Network (IDAN) is comprised of independent DAN organizations based around the world that provide expert emergency medical and referral services to regional diving communities.
2006 – 2008	President of the Latin-American Chapter UHMS	Undersea and Hyperbaric Medical Society
2016 - Present	Medical and Academic Program Director, Hyperbaric Medicine Unit	Institute for Exercise and Environmental Medicine / Texas Health Presbyterian Hospital Dallas / UT Southwestern Medical Center, Dallas, TX
2019 - Present	Member of the Undersea and Hyperbaric Medicine (UHM) Council of Fellowship Directors (COFD).	Undersea and Hyperbaric Medical Society
2020 - Present	Member of a Medical Advisory Board of the first Undersea and Hyperbaric Medicine Fellowship program in Philippines.	Department of Emergency Medicine at the Southern Philippines Medical Center (SPMC), in Davao City. Philippines.
2020 - Present	Honorary Consultant.	Department of Emergency Medicine at the Southern Philippines Medical Center, Davao City Philippines.
2020 - Present	Honorary Consultant.	Venezuelan Emergency Network for Diving Accidents.
2020 - Present	Honorary Consultant.	Venezuelan Association of Commercial Divers

## **Professional Societies**

<b>Dates</b>	<b>Society Name</b>
1993 - Present	Undersea and Hyperbaric Medical Society (UHMS)
1993	Latin American Chapter of the Undersea and Hyperbaric Medical Society, Founder
1994	Venezuelan Society of Hyperbaric Medicine, Founder
1994 – Present	National Board of Diving and Hyperbaric Medical Technology, Instructor of Diver Medic and Hyperbaric Medical Technologist
1999 – Present	Association of Diving Contractors International
1999 – Present	Divers Alert Network (DAN) Latin America Emergency Hotline, Area 3: Ecuador, Colombia, Venezuela, Guyanas, Peru, Medical Director / Medical Liaison
2003 – 2005	Venezuelan Breath-hold Diving Team, Medical Director
2006 – 2008	Latin-American Chapter of Undersea and Hyperbaric Medical Society, President
2006 - Present	Association for the Advancement of Wound Care (AAWC)
2014 – Present	National Lymphedema Network (NLN).

## **Honors and Awards:**

<b>Dates</b>	<b>Society Name</b>
1994	US Navy “Never Giving up Special Recognition. Welcome to the US Navy Diving Medical Officer Family”. First civilian foreigner to complete this training and graduating with honors. U.S. Navy Diving Medical Officer Course. Department of the Navy.
2000	Federacion Venezolana de Actividades Submarinas Distinción (Venezuelan Underwater Federation Award). In appreciation for contributions to the advancement of Diving and Hyperbaric Medicine in Venezuela.
2018	Physician All Star Winner 2 <sup>nd</sup> Quarter 2018. Texas Health Presbyterian Hospital Dallas.
2019	Asociación Mexicana de Medicina Hiperbárica Distinción (Mexican Association of Hyperbaric Medicine). “For the outstanding presentation: Hyperbaric Oxygen Therapy in Critically Ill Patients”. First International Hyperbaric Medicine Congress. Mexico
2019	Medical Director of IEEM Hyperbaric Medicine Unit accredited as UHMS Level 1 with “Distinction” (Texas Health Presbyterian Hospital Dallas / UTSW). Undersea and Hyperbaric Medical Society. The coveted “with distinction” status is only given to the top 4% of hyperbaric medicine programs in the U.S. who meet the highest standards of patient care, quality, and safety.
2020	Inducted as a Fellow in Undersea and Hyperbaric Medicine (FUHM) of the Undersea and Hyperbaric Medical Society
2020	Awarded by the Texas Medical Board with a Conceded Eminence License.

## **Editorial Activities**

Year(s)	Journal Name
<b><u>Editorial Board</u></b>	
1999 – Present	“Revista de Medicina Hiperbarica” (Journal of Hyperbaric Medicine). It is included in: MEDLINE, Current Contents, Excerpta Medica, Biosis, Web Médica Acreditada. <a href="http://www.ccmh.com/REVISTA-OHB/Revista-OHB.htm">http://www.ccmh.com/REVISTA-OHB/Revista-OHB.htm</a>
2013 - Present	<i>Austin Journal of Clinical Case Reports.</i> <a href="https://austinpublishinggroup.com/clinical-case-reports/editorialboard.php">https://austinpublishinggroup.com/clinical-case-reports/editorialboard.php</a>
2014 - Present	<i>Henry Publishing Groups.</i> <a href="https://www.henrypublishinggroups.com/henry-journal-of-case-reports-imaging/">https://www.henrypublishinggroups.com/henry-journal-of-case-reports-imaging/</a>
<b><u>Ad Hoc Reviewer</u></b>	
2016 - Present	Plastic and Reconstructive Surgery
2021 - Present	Journal of Sport and Health Science

## **Selected Clinical Trials Activities**

<b><u>Present</u></b>	<i>University of Texas Southwestern Medical Center &amp; Texas Health Resources</i>
	<i>Using Hyperbaric Oxygen Therapy to facilitate return to play of athletes with hamstring strain, a double blind, randomized clinical trial</i>
	<i>Role: Co-Investigator (PI – Benjamin Levine, M.D.)</i>
	<i>IRB approval date: 02/20/2020 (currently on-hold pending for funding)</i>
<b><u>Past</u></b>	<i>University of Texas Southwestern Medical Center &amp; Mary Hitchcock Memorial Hospital, on behalf of itself, Dartmouth-Hitchcock Clinic and Trustees of Dartmouth College</i>
	<i>Hyperbaric oxygen therapy for moderate to severe ulcerative colitis flares: a multi-center, randomized, double-blind, sham-controlled trial</i>
	<i>Role: Co-Investigator (PI – Tasneem Ahmed, D.O.)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$14,052</i>
	<i>Dates: 10/01/17 – 09/30/19</i>
	<i>National Institutes of Health (NIH) and National Cancer Institute (NCI)</i>
	<i>Lymphatic structure and function in disease &amp; quantitative optical lymphography in breast cancer patients.</i>
	<i>Role: Co-Investigator (PI – Eva M. Sevick)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$540,000</i>
	<i>Dates: 07/1/2006 – 07/30/2009</i>

	<i>Tactile System Technology, Inc.</i>
	<i>Lymphatic structure and function in chronic wounds</i>
	<i>Role: Co-Investigator (PI – Eva Sevick)</i>
	<i>Total amount of award (if multi-year - direct costs only):\$81,060</i>
	<i>Dates: 02/28/08 – 02/28/09</i>
	<i>National Institutes of Health (NIH)</i>
	<i>Imaging Lymphatic Function in Normal Subjects and in Persons with Lymphatic Disorders &amp; Functional Lymph Angiography with NIR Imaging &amp; Imaging Lymph Function in Humans and in a Murine Model of Lymphedema.</i>
	<i>Role: Co-Investigator (PI – Eva M. Sevick)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$1,556,606</i>
	<i>Dates: 09/16/2008 – 07/31/2013</i>
	<i>University of Michigan (National Institutes of Health)</i>
	<i>RASA1-mediated control of lymphatic vessel growth and function</i>
	<i>Role: Co-Investigator (PI – Eva M. Sevick)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$49,135</i>
	<i>Dates: 08/1/09-07/31/11</i>
	<i>National Institutes of Health (NIH)</i>
	<i>Functional lymph angiography with NIR imaging</i>
	<i>Role: Co-Investigator (PI – Eva M. Sevick)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$1,049,000</i>
	<i>Dates: 09/15/2008 – 06/30/2013</i>
	<i>National Institutes of Health (NIH)</i>
	<i>Genome-wide association to staphylococcus carriage</i>
	<i>Role: Co-Investigator (PIs – Eric L. Brown)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$1,650,576</i>
	<i>Dates: 07/01/2010 – 06/30/2016</i>
	<i>Tactile System Technology, Inc.</i>
	<i>A randomized trial comparing the Flexitouch System &amp; the Biocompression Sequential Circulator 2004 system for the treatment of upper extremity lymphedema</i>
	<i>Role: Co-Investigator (PI – Caroline Fife)</i>
	<i>Total amount of award (if multi-year - direct costs only):\$43,912</i>
	<i>Dates: 07/21/2010 – 07/20/2011</i>



	<i>National Aeronautics and Space Administration (NASA)</i>
	<i>The Role of O2 and CO2 on Vigilance, Decision-Making, and Intracranial Pressure</i>
	<i>Role: Co-Investigator (PI: Philip Foster / Institutional PI: Erik Maus)</i>
	<i>Total amount of award (if multi-year - direct costs only): \$400,000</i>
	<i>Dates: 08/09/10- 01/31/2013</i>

### **Selected Teaching Activities**

Year(s)	Activity
<u>Medical and graduate school</u>	
1990	Instructor for course on management of diving accidents requiring recompression treatment and introduction to the operation of hyperbaric chambers. Teruel Engineering Company. Cumana, Venezuela
1991	Course on decompression sickness and pulmonary barotrauma for physicians and nurses of the Raúl Perdomo Naval Hospital. Catia La Mar, Venezuela
1991 – 1992	Instructor at CEPET / PDVSA (Center for Formation and Training for the Venezuelan Petroleum Company and Affiliates – English translation from Spanish), for courses on management of diving accidents and commercial diving. Venezuela
1994	Grand Round lectures on the Pathophysiology of Decompression for Residents and fellows. Shock Trauma Center, University of Maryland Medical Center, Baltimore, MD
1994	Instructor of the National Board of Diving and Hyperbaric Medical Technology for the course: Diver Medic Technician
1996	Invited Professor for the course Hyperbaric Oxygen Therapy of the Argentinean Society of Underwater Activities and Hyperbaric Medicine. III Pan-American Congress of Hyperbaric Medicine, Buenos Aires, Argentina
1996	Grand Round lecture on Hyperbaric Oxygen Therapy. Internal Medicine Department, Luis Razetti Medical School, Central University of Venezuela, Caracas, Venezuela
1998-1999 & 1999-2006	Professor in three DAN (Divers Alert Network) Diving and Hyperbaric Medicine Courses in Cartagena, Colombia; Cozumel, Mexico and Sao Paulo, Brasil
1999	Invited Professor for the XIX International Postgraduate Diploma of Diving and Hyperbaric Medicine, University of Barcelona, Spain
1987, 1991, 2000	Instructor trainer in three Sports Diving Instructor Courses CMAS (World Underwater Federation) and FVAS (Venezuelan Underwater Federation). Venezuela
2000	Professor for the course Clinical Hyperbaric Oxygen Therapy and Diving. First World Congress of Sports Medicine, Universidad del Bosque, Santa Fé de Bogotá, Colombia
2000	Professor for the course Diving Medicine. V Pan-American Congress of Hyperbaric Medicine. Latino-American Chapter of the Undersea and Hyperbaric Medical Society, Cozumel, Mexico
2000	Professor for the course Hyperbaric Oxygen Therapy. V Pan-American Congress of Hyperbaric Medicine. Latino-American Chapter of the Undersea and Hyperbaric Medical Society, Cozumel, Mexico
2001	Invited Professor for the course: Diving Medicine. V Congreso Argentino de Medicina Hiperbárica y Actividades Subacuáticas. Olavarría, Argentina

2004	Symposium: Hyperbaric Oxygen Therapy: Other Field for Anesthesiologists. Instituto Urológico Tamanaco. Universidad Central de Venezuela, Caracas, Venezuela
2006	Lecture on Hyperbaric and Diving Medicine. The University of Texas Chapter of the Wilderness Medical Society, Houston, TX
2007	Lecture on Medical Aspects of Diving. City of Houston Underwater Mariners, Houston, TX
2007	Lecture on Managing Decompression Illness: Recreational and Technical Diving, and Freediving. The Diving Equipment & Marketing Association Conference, Orlando, FL
2009	Lecture on Diving Medicine. The University of Texas Chapter of the Wilderness Medical Society, Houston, TX
2010	Lecture on Assisting in the Haiti Disaster. Internal Medicine Department. Town Hall Meeting. University of Texas Health Science Center, Houston, TX
2009 - 2012	Professor for the Intensive Course in Travel and Tropical Medicine. Topic: Overview of Diving Medicine. Department of Family and Community Medicine, Baylor College of Medicine, Houston, TX
2012	Grand Round lecture on Overview of Hyperbaric Oxygen Therapy in Critical Care. Department of Internal Medicine. Pulmonary, Critical Care and Sleep Medicine. University of Texas Health Science Center, Houston, TX
2008 - 2013	Professor for the Intensive Course in Travel and Tropical Medicine – Infectious Diseases. Topic: Diving and Hyperbaric Medicine. Department of Internal Medicine/Infectious Diseases, University of Texas Medical Branch, Galveston, TX
2013	Grand Round lecture on Hyperbaric Oxygen in late effect of radiation therapy. Dept. of Head and Neck Surgery, University of Texas MD Anderson Cancer Center, Houston, TX
2014	Conference on Overview of Diving Medicine. The University of Texas Chapter of the Wilderness Medical Society, Houston, TX
2015	Grand Round lecture on Hyperbaric Oxygen Therapy. Dept. of Internal Medicine, University of Texas Medical School at Houston, TX
2005 - 2015	Teaching post-graduated fellows, residents, medical students and nurses (clinical rotations in the Memorial Hermann Hyperbarics and Wound Healing Center) in the skills and theory of the following specialties: hyperbaric medicine, diving medicine, lymphedema management and wound care.
2016	Seminar on Hyperbaric Medicine for 16 residents, fellows and faculty of UTSW Emergency Medicine Department.
2016	Seminar on Diving and Hyperbaric Medicine for 22 residents, fellows and faculty of UTSW Physical Medicine and Rehabilitation Department.
2016	Lymphedema Update. Institute for Exercise and Environmental Medicine. Work in Progress Lectures.
2016	Hyperbaric Medicine. Institute for Exercise and Environmental Medicine. Work in Progress Lectures.
2016 - Present	Teaching post-graduated fellows, residents, medical students and nurses (clinical rotations in the Texas Health Presbyterian Hospital Dallas / University of Texas Southwestern Medical Center Dallas) in the skills and theory of the specialties: hyperbaric medicine, diving medicine, lymphedema management and wound care.

2017	Overview of Breath-Hold Diving. Institute for Exercise and Environmental Medicine. Work in Progress Lectures.
2017	Seminar on Undersea and Hyperbaric Medicine for 21 residents, fellows and faculty of UT Southwestern Emergency Medicine Department.
2017	Grand Rounds: Overview of Hyperbaric Oxygen Therapy. Internal Medicine Residency Program. Texas Health Presbyterian Hospital Dallas.
2017	Grand Rounds: Hyperbaric Oxygen Therapy for Radiation-Induced Hemorrhagic Cystitis. UT Southwestern Department of Urology.
2017	Grand Rounds: Gas Embolism: an Overview. Internal Medicine Residency Program. Texas Health Presbyterian Hospital Dallas.
2018	Current situation of the 24/7 Hyperbaric Centers. Institute for Exercise and Environmental Medicine. Work in Progress Lectures.
2018	Effect of hyperbaric oxygen therapy in delayed radiation therapy. Prostate Cancer Support. Texas Health Presbyterian Hospital Plano.
2018	Grand Rounds: Hyperbaric Oxygen Therapy in Emergency Medicine. UT Southwestern Department of Emergency Medicine.
2018	Grand Rounds: Hyperbaric Oxygen Therapy (HBOT) for emergent and critically ill patients. Internal Medicine Residency Program. Texas Health Presbyterian Hospital Dallas.
2018	Seminar on Medicine in Extreme Environments: Diving Medicine for 21 Medical Students and faculty of UT Southwestern.
2019	Hyperbaric Medicine Seminar for 16 emergency medicine residents, toxicology fellows and faculty of UT Southwestern Emergency Medicine Department.
2019	Grand Rounds: Hyperbaric oxygen therapy (HBOT): it is not a mystery. Internal Medicine Residency Program. Texas Health Presbyterian Hospital Dallas.
2019	Effect of hyperbaric oxygen therapy in radiation cystitis. Prostate Cancer Support. Texas Health Presbyterian Hospital Plano.
2019	Seminar on Medicine in Extreme Environments: Breath-hold Diving and Hyperbaric Medicine for 22 Medical Students and faculty of UT Southwestern.
2019	Grand Rounds: Hyperbaric Oxygen Therapy in late effect of radiation therapy. UT Southwestern Department of Oral Maxillofacial Surgery.
2020	Zoom Case Presentation: Radiation Induced Hemorrhagic cystitis. Diving, Hyperbaric Medicine and Difficult Wound Fellowship Program. Department of Emergency Medicine at the Southern Philippines Medical Center, Davao City Philippines
2020	Zoom Conference on Decompression illness. Diving, Hyperbaric Medicine and Difficult Wound Fellowship Program. Department of Emergency Medicine at the Southern Philippines Medical Center, Davao City Philippines
2020	Current Status of the HBOT in the US for emergent and non-emergent indications. Institute for Exercise and Environmental Medicine. Work in Progress Lectures.
<u>Qualifying examination committees</u>	
1996	Member of the Scientific Committee of the III Pan-American Congress of Hyperbaric Medicine. Argentina (we were responsible to select and judge the scientific articles presented)

2000	Member of the Scientific Committee of the V Pan-American Congress of Hyperbaric Medicine. Mexico (we were responsible to select and judge the scientific articles presented) <a href="http://amhs.tripod.com/congreso.htm">http://amhs.tripod.com/congreso.htm</a>
2006	Reviewer for: Enduring Material CME. Undersea and Hyperbaric Medical Society. Course: Legal Aspects of Wound Care and Hyperbaric Medicine
2007	Reviewer for: Enduring Material CME. Undersea and Hyperbaric Medical Society. Course: The Eleventh Annual Advanced Hyperbaric Symposium
2008	Reviewer for: Enduring Material CME. Undersea and Hyperbaric Medical Society. Course: Selected Topics in Hyperbaric Medicine
2014	Member of the Scientific Committee of the XVIII International Congress on Hyperbaric Medicine. Argentina <a href="http://www.ichm2014.com.ar/en/committees">http://www.ichm2014.com.ar/en/committees</a>
<u>Medical student rotations: 4th Year Student Elective: Hyperbaric Medicine &amp; Chronic Wound Care</u> Monthly rotations 2005-2015: average of 8 student per year.	
<u>Postgraduate medical education (graduate &amp; continuing medical education):</u> Fellow of Family Practice (Geriatrics): Hyperbaric Medicine & Chronic Wound Care 3 month rotations 2005-2015: average of 2 per year.	

### **Selected Invited Lectures**

Year(s)	Title	Location
<b><u>International</u></b>		
06/1994	Clinical Experience in the Treatment of Air Embolism with Hyperbaric Oxygen Therapy.	Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society. Denver, CO, USA
06/1994	MIEMSS 5-Years Clinical Experience of CO Poisoning and Smoke Inhalation.	Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society. Denver, CO, USA
06/1995	Direct Atmospheric Oxygen Generation Systems for Clinical Hyperbaric Chamber Support.	Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society. Palm Beach, FL, USA
04/1996	Conference: Gas Embolism: Epidemiology, Clinic y Treatment.	III Pan-American Congress of Hyperbaric Medicine. Buenos Aires, Argentina
06/1996	Constrictive postures as risk factor in decompression sickness.	Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society. Anchorage, AK, USA
06/1999	Pulmonary Ventilatory Function and Deep Mixed-Gas Diving.	Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society. Boston, MA, USA
2000	Conference: Wound Healing.	Annual Scientific Congress of the Hospital Angeles. Cancun, Mexico

2000	Conference: Pulmonary Barotrauma.	V Pan-American Congress of Hyperbaric Medicine. Cozumel, Mexico
2000	Conference: Medical Aspects of Breath-Hold Diving.	V Pan-American Congress of Hyperbaric Medicine. Cozumel, Mexico
2000	Conference: Medical Aspects of Mixed-Gas Diving.	V Pan-American Congress of Hyperbaric Medicine. Cozumel, Mexico
2000	Conference: Hyperbaric Oxygen Therapy: Contraindications and Side Effects.	V Pan-American Congress of Hyperbaric Medicine. Cozumel, Mexico
04/2001	Conference: Mandibular Osteoradionecrosis.	V Argentinean Congress of Hyperbaric and Diving Medicine. Olavarría, Argentina
04/2001	Conference: Breath-Hold Diving.	V Argentinean Congress of Hyperbaric and Diving Medicine. Olavarría, Argentina
04/2001	Pulmonary Overpressure Syndrome.	V Argentinean Congress of Hyperbaric and Diving Medicine. Olavarría, Argentina
09/2006	Treatment of Decompression Illness.	IV Brazilian Congress and International Course of Diving and Hyperbaric Medicine. Sao Paulo, Brasil
09/2006	Conference: Nitrogen Narcosis and Near-Drowning.	IV Brazilian Congress and International Course of Diving and Hyperbaric Medicine. Sao Paulo, Brasil
09/2006	Conference: Pulmonary Barotrauma.	IV Brazilian Congress and International Course of Diving and Hyperbaric Medicine. Sao Paulo, Brasil
09/2006	Conference: Medical Aspects of Breath-hold Diving.	IV Brazilian Congress and International Course of Diving and Hyperbaric Medicine. Sao Paulo, Brasil
09/2006	Conference: Hyperbaric Oxygenation.	IV Brazilian Congress and International Course of Diving and Hyperbaric Medicine. Sao Paulo, Brasil
04/2010	Incompetent perforator as a cause of disabling leg pain and ulceration successfully treated with radiofrequency ablation.	Symposium on Advanced Wound Care. Orlando, FL, USA

06/2010	Persistence of Right Heart Bubbles in a Hyperbaric Technician After Routine HBOT Exposure.	Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society. St. Petersburg FL, USA
06/2012	Lymphatics in adipose disorders.	19th International Workshop on Vascular Anomalies, Malmo, Sweden.
09/2012	The cardio-lymphatic connection: understanding heart failure, pulmonary hypertension and pericardial disease in the patient with lymphedema.	The 10th National Lymphedema Network International Conference: Research Round Up. Dallas, Texas
11/2013	Non-invasive, Bedside Imaging of Lymphatics in An Infant with Chylothorax After Congenital Heart Surgery.	Scientific Meeting American Heart Association. Dallas, Texas
09/2014	Real time visualization of lymphatic dysfunction in venous ulcer patients: the effect of pneumatic compression, results of a pilot study with IC-Green.	The 11th National Lymphedema Network International Conference, Washington, DC.
07/19/2019	Conference: OHB in Emergencies and Critical Patients. Part 1	Congreso Bienal Internacional de Medicina Hiperbárica/Subacuática. Asociación Mexicana de Medicina Hiperbárica, Cozumel, Mexico
07/19/2019	Conference: OHB in Emergencies and Critical Patients. Part 2	Congreso Bienal Internacional de Medicina Hiperbárica/Subacuática. Asociación Mexicana de Medicina Hiperbárica, Cozumel, Mexico
07/20/2019	Conference: Medical aspects of apnea diving	Congreso Bienal Internacional de Medicina Hiperbárica/Subacuática. Asociación Mexicana de Medicina Hiperbárica, Cozumel, Mexico
07/20/2019	Conference: Venous and arterial gas embolism	Congreso Bienal Internacional de Medicina Hiperbárica/Subacuática. Asociación Mexicana de Medicina Hiperbárica, Cozumel, Mexico
08/01/2020	Conference on Decompression illness. Diving, Hyperbaric Medicine and Difficult Wound Fellowship Program. (virtual)	Department of Emergency Medicine at the Southern Philippines Medical Center, Davao City Philippines
09/02/2020	Case Presentation: Radiation Induced Hemorrhagic cystitis. Diving, Hyperbaric Medicine and Difficult Wound Fellowship Program (virtual)	Department of Emergency Medicine at the Southern Philippines Medical Center, Davao City Philippines
11/28/2020	Conference on Diving Medicine (virtual)	Centro de Actividades Sub-Acuáticas. Universidad Central de Venezuela.

<b><u>National (Venezuela)</u></b>		
11/1995	Conference: Decompression Sickness.	First International Congress of Hyperbaric Medicine in Venezuela. Barquisimeto, Venezuela
11/1995	Conference: Cerebral Gas Embolism.	First International Congress of Hyperbaric Medicine in Venezuela. Barquisimeto, Venezuela
11/1995	Conference: Hyperbaric Chambers.	First International Congress of Hyperbaric Medicine in Venezuela. Barquisimeto, Venezuela
11/1995	Conference: Safe Operation of Hyperbaric Chambers.	First International Congress of Hyperbaric Medicine in Venezuela. Barquisimeto, Venezuela
07/1996	Conference: Hyperbaric Medicine.	First Scientific Meeting of the Dr. Raúl Perdomo Naval Hospital, Catia La Mar, Venezuela
06/1998	Conference: Hyperbaric Chambers.	First Venezuelan Industrial Diving Congress. PDVSA (Venezuelan Petroleum Company). Venezuela
06/1998	Conference: Decompression Illness.	First Venezuelan Industrial Diving Congress. PDVSA (Venezuelan Petroleum Company). Venezuela
10/1999	Conference: Mixed Gas Diving.	Second Venezuelan Industrial Diving Congress. PDVSA (Venezuelan Petroleum Company). Venezuela
2001	Conference: Risk Factors of Decompression Illness.	Third Venezuelan Industrial Diving Congress. PDVSA (Venezuelan Petroleum Company). Venezuela

**Technological and Other Scientific Innovations**

I created a Disposable Tracheostomy Breathing System for Hyperbaric Oxygen Therapy at the University of Texas Health Science Center at Houston (UT Health). Please contact the Office of Technology Management for more information regarding this technology (Jane Wu, Ph. D. 7000 Fannin, Suite 720, Houston, TX, 77030. E-mail: yu-jane.wu@uth.tmc.edu. Phone: 713-500-35 82)

## Bibliography

### Peer-Reviewed Publications

#### Original Research Articles

Cited: 453 times by other authors (by February 26, 2021).

<https://scholar.google.com/citations?user=f4-bXFgAAAAJ&hl>

Pubmed using: Guilliod R and Guilloid R

1.	<b><u>Direct evidence of lymphatic function improvement after advanced pneumatic compression device treatment of lymphedema.</u></b> Adams KE, Rasmussen JC, Darne C, Tan IC, Aldrich MB, Marshall MV, Fife CE, Maus EA, Smith LA, Guilloid R, Hoy S, Sevick-Muraca EM Biomed Opt Express 2010 Jul 1 1 114-125. <b>Cited by 93</b>
2.	<b><u>Near-infrared fluorescence imaging of lymphatics in head and neck lymphedema.</u></b> Maus EA, Tan IC, Rasmussen JC, Marshall MV, Fife CE, Smith LA, Guilliod R, Sevick-Muraca EM Head Neck 2012 Mar 34 3 448-53. <b>Cited by 53</b>
3.	<b><u>A randomized controlled trial comparing two types of pneumatic compression for breast cancer-related lymphedema treatment in the home.</u></b> Fife CE, Davey S, Maus EA, Guilliod R, Mayrovitz HN. Support Care Cancer. 2012 Dec;20(12):3279-86. doi: 10.1007/s00520-012-1455-2. <b>Cited by 79</b>
4.	<b><u>Lymphatic abnormalities in the normal contralateral arms of subjects with breast cancer-related lymphedema as assessed by near-infrared fluorescent imaging.</u></b> Aldrich MB, Guilliod R, Fife CE, Maus EA, Smith L, Rasmussen JC, Sevick-Muraca EM Biomed Opt Express 2012 Jun 3 6 1256-65. <b>Cited by 38</b>
5.	<b><u>Lymphatic abnormalities are associated with RASA1 gene mutations in mouse and man.</u></b> Burrows PE, Gonzalez-Garay ML, Rasmussen JC, Aldrich MB, Guilliod R, Maus EA, Fife CE, Kwon S, Lapinski PE, King PD, Sevick-Muraca EM Proc. Natl. Acad. Sci. U.S.A. 2013 May 110 21 8621-6. <b>Cited by 86</b>
6.	<b><u>Investigational lymphatic imaging at the bedside in a pediatric postoperative chylothorax patient.</u></b> Tan IC, Balaguru D, Rasmussen JC, Guilliod R, Bricker JT, Douglas WI, Sevick-Muraca EM Pediatr Cardiol 2014 Oct 35 7 1295-300. <b>Cited by 22</b>
7.	<b><u>An abnormal lymphatic phenotype is associated with subcutaneous adipose tissue deposits in Dercum's disease.</u></b> Rasmussen JC, Herbst KL, Aldrich MB, Darne CD, Tan IC, Zhu B, Guilliod R, Fife CE, Maus EA, Sevick-Muraca EM Obesity (Silver Spring) 2014. Oct 22 10 2186-92. <b>Cited by 30</b>



8.	<b><u>Evidence for SH2 domain-containing 5'-inositol phosphatase-2 (SHIP2) contributing to a lymphatic dysfunction.</u></b> Agollah GD, Gonzalez-Garay ML, Rasmussen JC, Tan IC, Aldrich MB, Darne C, Fife CE, Guilliod R, Maus EA, King PD, Sevick-Muraca EM. PLoS One. 2014. Nov 10;9(11):e112548. doi: 10.1371/journal.pone.0112548. <b>Cited by 12</b>
9.	<b><u>Real-Time Visualization of Lymphatic Dysfunction in Venous Ulcer Patients.</u></b> E Sevick-Muraca, EA Maus, R Guilliod, JC Rasmussen, I Tan, MB Aldrich, CE Fife. Journal of Vascular Surgery: Venous and Lymphatic Disorders. 2015 Jan;3(1):127. doi: 10.1016/j.jvsv.2014.10.030. Epub 2014 Dec 15.
10.	<b><u>Near-infrared fluorescence lymphatic imaging in a patient treated for venous occlusion</u></b> JC Rasmussen, MB Aldrich, R Guilliod, CE Fife, TF O'Donnell, ... Journal of Vascular Surgery Cases. 2015. 1 (3), 201-204. <b>Cited by 3</b>
11.	<b><u>A novel mutation in CELSR1 is associated with hereditary lymphedema</u></b> ML Gonzalez-Garay, MB Aldrich, JC Rasmussen, R Guilliod, PE Lapinski, ... Vascular cell 2016. 8 (1-6). <b>Cited by 18</b>
12.	<b><u>Discussion: An Update on the Appropriate Role for Hyperbaric Oxygen: Indications and Evidence.</u></b> Guilliod RR, Pompeo MQ Plast. Reconstr. Surg. 2016 Sep 138 3 Suppl 117S-8S. <b>Cited by 4</b>
13.	<b><u>Hyperbaric Oxygen Therapy in Sports Musculoskeletal Injuries.</u></b> Moghadam N, Hieda M, Ramey L, Levine MD, Guilliod R. Medicine & Science in Sports & Exercise 2019 Dec 23. doi: 10.1249/MSS.0000000000002257. [Epub ahead of print]. <b>Cited by 5</b>
14.	<b><u>A phase 2B randomized trial of hyperbaric oxygen therapy for ulcerative colitis patients hospitalized for moderate to severe flares (2020).</u></b> Dulai PS, Raffals LE, Hudesman D, Chiorean M, Cross R, Ahmed T, Winter M, Chang S, Fudman D, Sadler C, Chiu EL, Ross FL, Touns G, Murad MH, Sethuraman K, Holm JR, Guilliod R, Levine B, Buckey JC Jr, Siegel CA. Alimentary Pharmacology & Therapeutics. 2020 Aug 3. doi: 10.1111/apt.15984. Online ahead of print. Aliment Pharmacol Ther. 2020. PMID: 32745306. Cited by 2

## **Abstracts**

1.	<b><u>MIEMSS 5-years clinical experience of CO poisoning and smoke inhalation.</u></b> Sánchez EC, Guilliod R, Kelton R, Myers RAM. Undersea Hyperb Med 1994; 21: 17.
2.	<b><u>MIEMSS Clinical experience in the treatment of air embolism with hyperbaric oxygen therapy.</u></b> Guilliod R, Sánchez EC, Myers RAM, Kufera JA. Undersea Hyperb Med 1994; 21: 33.

3.	<b><u>Direct atmospheric oxygen generation systems for clinical hyperbaric chamber support.</u></b> Butler GJ, Hamilton RW, Guilliod R, Parker M, Paterson B. Undersea Hyperb Med 1995; 22:16-17.
4.	<b><u>Constrictive postures as risk factor in decompression sickness.</u></b> Guilliod R, Cotto-Cumba C, Myers RAM. Undersea Hyperb Med 1996; 23: 72. <b>Cited by 6</b>
5.	<b><u>Pulmonary ventilatory function and deep mixed-gas diving.</u></b> Guilliod R, Medrano G, Moreno D, Avilan J, Lopez J. Undersea Hyperb Med 1999;26:30.
6.	<b><u>P5-12-04: Genetic Linkage between Acquired and Primary Lymphedema Evaluated through Whole Exome Sequencing and NIR Fluorescence Lymphatic Imaging.</u></b> EM Sevick-Muraca, ML Gonzalez-Garay, CE Fife, R Guilliod, O Hall, MV Marshall, JC Rasmussen, MB Aldrich, C Darne, B Zhu, IC Tan, CT Caskey. Cancer Research 2011; 71 (24) P5-12-04
7.	<b><u>Near-infrared in vivo imaging of human lymphatic architecture and function in lymphedema and normal subjects.</u></b> Aldrich M, Adams K, Angermiller B, Darne C, Fife CE, Guilliod R, Hawkins T, Marshall M, Maus E, Rasmussen J, Smith L, Tan C, Wang X, Sevick-Muraca E. The Journal of Immunology, April 1, 2011, 186, (1 Supplement) 65.7
8.	<b><u>Exudate Control in Heavily Exuding Ulcers Managed With a Carboxymethylcellulose Dressing With Strengthening Fibers.</u></b> Smith, M. D., Maus, E. E., Fife, C. E., Guilliod, R. R., Smith, K. S., Monterrey, V., Chambliss, T. Ostomy-Wound Management, 20 (2012):8
9.	<b><u>Non-Invasive, Bedside Imaging of Lymphatics in an Infant with Chylothorax after Congenital Heart Surgery.</u></b> Balaguru D, Tan I, Sevick-Muraca E, Guilliod R, Hines MH, Douglas W, Rasmussen. Circulation. 2013; 128: A15623

### Non-peer reviewed scientific or medical publications

1.	Guilliod R, Osborn M. Actual functional conditions of the hyperbaric chambers in Venezuela. Coast Guard of Venezuela and “Federacion Venezolana de Actividades Submarina” (F.V.A.S.). 1986.
2.	Guilliod R, Osborn M. Venezuelan emergency network for diving accidents. Coast Guard of Venezuela and Federacion Venezolana de Actividades Submarina. 1986.

## **Monographs**

1.	Thesis: Guilliod R. Oxygen desaturation in anesthesia “Desaturación de oxígeno en anestesia”. 2004 Special Publishing Award “Mención Publicación”. Universidad Central de Venezuela.
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## **SELECTED WOUND CARE AND LYMPHEDEMA MANAGEMENT EDUCATION:**

2006	Annual Symposium on Advanced Wound Care & Medical Research Forum. San Antonio, U.S.A.
2007	Problem Wound Medicine Management and Hyperbaric Medicine. Diversified Clinical Services. Woodlands, TX, USA
2008 - 2009	Annual Scientific Meetings of the Wound Healing Society. San Diego, CA 2008; Dallas, TX, USA 2009
2014	Wound Care Essentials for Patients with Lymphedema. National Lymphedema Network, Washington DC
2014 - 2020	The 11th National Lymphedema Network International Conference, Washington, DC.
2020	The Symposium on Advanced Wound Care Spring 2020 / Wound Healing Society. Online.

## **SELECTED DIVING EDUCATION**

1986	International Sport Diving Instructor's Certificate 2 Stars. C.M.A.S. and F.V.A.S. Tucacas, Venezuela.
1994	US Navy Diving Medical Officer (DMO) Course (Class Number: 94010) Certified as a US Navy Diving Medical Officer/ US Navy Diver. Naval Diving and Salvage Training Center. Panama City, FL, USA
1994	Advanced Diving Medical and Chamber Operation Team Training Program. Key Largo, FL, USA
1994	IANTD (International Association of Nitrox and Technical Divers). Trimix Diver. Pompano Beach, Fl, U.S.A.
1994	IANTD (International Association of Nitrox and Technical Divers). Advanced Equivalent Air Nitrox Instructor. Key Largo, U.S.A.

1999	Basic and Intermediate Submerged Arc Welding (SMAW). San Pedro Welding Skills Center, San Pedro, CA. USA. Welding certification: 2G.
1999	Commercial Air Diver – Welding Specialty. College of Oceanering. Los Angeles, CA. U.S.A. Certification: Welding certification: 3F underwater.
2000	DAN (Divers Alert Network) Oxygen Provider Instructor Trainer. Las Vegas, U.S.A.
2000	Three stars apnea instructor (breath-hold diving). AIDA. Nice, France.
2014	Inspection, Maintenance and Documentation of Hyperbaric Chamber Acrylics. International ATMO. San Antonio, TX
2014	Hyperbaric Facility Maintenance (Module 1 & 2). International ATMO. San Antonio, TX.
2014	How to Prepare for Accreditation of Hyperbaric Centers. Undersea and Hyperbaric Medical Society, St. Louis, MO

**SELECTED DIVING CERTIFICATES**

- Association of Diving Contractors International (ADCI)  
Degree: Bell Mixed Gas / Saturation Diver / Saturation Dive Supervisor: No. 1145
- National Board of Diving and Hyperbaric Medical Technology (NBDHMT).  
Degree: Instructor of Diver Medic and Hyperbaric Medical Technologist. USA.
- Welding certifications AWS: 2G, and 3F (underwater).
- Three stars apnea instructor (breath-hold diving). AIDA. Nice, France.
- IANTD (International Association of Nitrox and Technical Divers). Advanced Equivalent Air Nitrox Instructor. U.S.A.
- International Sport Diving Instructor's Certificate 2 Stars. C.M.A.S. / F.V.A.S. Venezuela

**SELECTED COMMERCIAL DIVING EXPERIENCE**

Since 1984, I have been working as a Diving Medical Officer, Diving Supervisor, Diving Superintendent and Diver in commercial diving projects including offshore, hydroelectric dams, salvage projects, underwater construction and inspection utilizing air, mixed gas, and saturation diving techniques. My experience includes, as an example, the planning and direction of more than 1,500 mixed gas dives deeper than 260 feet of sea water (fsw). I have performed more than 1,000 working dives, with more than 150 mixed gas dives (max depth 450 fsw). I have vast knowledge regarding decompression, environmental control and life support systems as well as the use of gas mixtures for deep diving. .

1984	Coordinator of the underwater research to determine how the metropolitan coastal environment would be affected by a petroleum spill. ("Plan Nacional de Contingencia contra Derrames Masivos de Petroleo en Aguas"). Maraven (Venezuelan Petroleum Company). Venezuela.
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1985	Inspection/reparation of the underwater aqueduct between Cumana City and Margarita Island. Maximum depth 210 fsw. Venezuela.
1987	Location and inspection of the Santa Margarita Ferry wrecked near Cumaná City. Maximum depth 270 fsw. Venezuela
1988	Furnishing, installing and grouting of underwater concrete in the outlet (downstream) of several units into the Raul Leoni Dam. Depth: El Guri, Venezuela.
1988	Evaluation/reparation of the hydraulic system of the Turimiquire Dam. Maximum depth 220 fsw. Turimiquire, Venezuela. Mixed Gas.
1988	Reparation of the underwater aqueduct between Cumaná City and Margarita Island ("Acueducto Submarino Transpeninsular Cumaná-Isla de Margarita"). Maximum depth 210 fsw. Venezuela. Mixed Gas.
1991 - 1992	Instructor at CEPET / PDVSA (Center for Formation and Training for the Venezuelan Petroleum Company and Affiliates – <i>English translation from Spanish</i> ), for courses on management of diving accidents, hyperbaric chamber operation, and commercial diving operations. Venezuela
1994	Inspection of the underwater concrete (upstream) units: 3A-B, 4A-B, 5A-B, 9A-B. of Raúl Leoni Dam. Maximum depth 300 fsw. El Guri, Venezuela. Mixed Gas
1995 - 1998	Inspection and reparation (upstream) of the underwater concrete of 10 units of Raúl Leoni Dam. Maximum depth 300 fsw. Total team dives: 1000. El Guri, Venezuela. Mixed Gas
2000	Evaluation of the mixed gas and saturation diving procedures of the Mexican Company Condux S.A By Protexa Group. Saturation diving projects in the Gulf of Mexico
2000 - 2005	Inspection and reparation (upstream) of the underwater concrete below the inlet tunnel of the ten units of the machine room number ONE. Raúl Leoni Dam. Maximum depth 330 fsw. El Guri, Venezuela. Total team dives: 500. Mixed Gas.

### **SERVICE TO THE COMMUNITY**

Year(s)	Role	Organization or institution
12/1999	Volunteer physician, as part of the group of first responders in Venezuelan mudslide disaster. Responsibilities included performing physicals, treatments and directing rescue efforts in the area devastated after the flooding in Vargas State, Venezuela. At least 30,000 people died when the region was ravaged by mudslides caused by floods.	International Committee of the Red Cross and "Defensa Civil Venezuela"

2004 – 2005	Voluntary work as anesthesiologist in 6 free surgical missions (6 days per mission) for impoverished people in poor areas of Venezuela.	Plan Bolivar 2000. Bolivarian Mission – Venezuelan Government
01/2010	Volunteer anesthesiologist, as part of a trauma surgical team, to help with post-earthquake relief efforts in Jacmel and Port-au-Prince, Haiti. A 5 days mission arriving 5 days after the earthquake.	Memorial Hermann Hospital, Builders without Borders, and Kingsland Baptist Church
1992 –Present	Evaluation and treatment of patients with diving accidents in Venezuela. Founder and medical director of the Venezuelan Emergency Network for Diving Accidents. I have directly treated (in person or by telemedicine) more than 200 patients free of charge that have required hyperbaric treatment in Venezuela for decompression illness.	Venezuelan Emergency Network for Diving Accidents. Venezuelan Underwater Federation
1996 - 2005	Voluntary position as the Medical Director of the Divers Alert Network (DAN) Emergency Network for diving accidents in the northern sector of South-America. DAN is a non-profit medical and research organization dedicated to the safety and health of recreational scuba divers and associated with Duke University Medical Center (DUMC). I have been involved in the medical management of more than 300 hundred diving accidents free of charge (telemedicine). Also I have helped providing advice and assistance to prevent injuries and to promote diving safety.	Divers Alert Network (DAN) Emergency Network in association with the Duke University Medical Center (DUMC)

**INTERESTS:**

***Clinical:*** Hyperbaric, Altitude, & Aerospace Medicine  
Diving Medicine  
Wound Healing  
Anesthesiology and Critical Care  
Lymphedema Management  
Sport Medicine

***Research:*** Environmental Medicine  
Endothelium  
Hyperoxia / Hypoxia / Oxidative Stress  
Lymphatic system

**LANGUAGES:**

Spanish and English