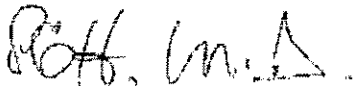


1 **DECLARATION OF Paul G. Harch, M.D.**

2 I, Paul G. Harch, M.D., have personal knowledge of the facts stated in this declaration and,  
3 if called as a witness, I could and would testify competently thereto under oath. I declare as  
4 follows:

5 1. I am a hyperbaric and emergency medicine physician in New Orleans, Louisiana who has  
6 been actively practicing and researching the effects of hyperbaric oxygen therapy (HBOT) in  
7 acute and chronic brain injury of any and all causes over the past 16 years. I am the past  
8 president of the International Hyperbaric Medical Association, Clinical Assistant Professor and  
9 Director of the Hyperbaric Medicine Fellowship at Louisiana State University School of  
10 Medicine, New Orleans, and the announced director of the soon to be opened department of  
11 hyperbaric medicine at the large tertiary care and teaching institution in New Orleans, Charity  
12 Hospital (Medical Center of Louisiana, New Orleans). While I have not examined Terri Schiavo  
13 I am familiar with the argument over Mrs. Schiavo's level of consciousness and neurological  
14 condition. Since the publication of Dr. Neubauer's Letter to the Editor of the Lancet in 1990  
15 (Neubauer RA, Gottlieb SF, Kagan RL. Lancet, 1990;335:542) about the possible existence of  
16 "Idling Neurons" in the brain of a woman 14 years post stroke whom he was able to bring to a  
17 much higher level of function over the course of nearly 16 months of HBOT it has become  
18 apparent that the dogma and scientific concepts about brain injury and the potential for recovery  
19 of brain function post injury were wrong. Most importantly, Dr. Neubauer was able to  
20 demonstrate with the sequence of a single SPECT brain blood flow study followed by a single  
21 HBOT and then immediate repeat SPECT study that damaged non-functional areas of brain  
22 could be seen to improve blood flow. This was consistent with the subsequent clinical  
23 improvement of the patient as she was treated with supplemental normal pressure and hyperbaric  
24 pressure oxygen. The article's SPECT brain blood flow images reaffirmed a previous article by  
25 Dr. Neubauer in 1985 (Neubauer RA. Minerva Med Subaequea ed Iperbarica, 1985;5:75) on  
the effect of HBOT to recover function in patients with prolonged coma. Both articles strongly

  
Declarant Initials:

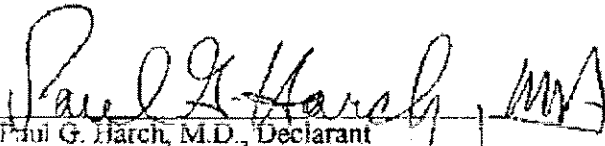
1 suggested that injured brain tissue can exist for years in a living non-functional state and could  
2 be stimulated to permanently function again with high doses of oxygen. This experience in  
3 chronic brain injury has now been duplicated by myself and numerous other physicians around  
4 the world in multiple different neurological disorders.

5 2. It is my opinion given the conflicting reports of Mrs. Schiavo's condition, the reports of  
6 Dr. Neubauer above, and the published and unpublished reports of multiple other physicians who  
7 have treated patients with chronic brain injury years after injury that Mrs. Schiavo could  
8 potentially respond to stimulation with hyperbaric oxygen therapy.

9 3. Furthermore, it is my opinion and recommendation that at a minimum Mrs. Schiavo  
10 undergo the simple sequence of SPECT brain blood flow imaging, single HBOT at low pressure,  
11 and repeat SPECT brain blood flow imaging, under the direction of and in the hands of  
12 individuals who have demonstrated competence in the practice of this sequence of procedures  
13 and interpretation of the images, to demonstrate whether her brain has the potential to respond to  
14 repetitive HBOT. I would also recommend that the patient be videoed before and after the  
15 procedure to see if neurological changes could be documented since such changes would be a  
16 more powerful demonstration of her potential to respond than the images themselves. If positive  
17 changes were demonstrated either by imaging or video/exam I would recommend a course of at  
18 least 40 low pressure HBOT's. If the imaging were negative, depending on the exact appearance  
19 of the images, I would likely still recommend a trial of at least 40 low pressure HBOT's  
20 empirically to see if Mrs. Schiavo could be brought to a higher level of neurological function.

21 I declare under the penalty of perjury under the laws of the State of Louisiana that the  
22 foregoing is true and correct.

23 Executed this 7<sup>th</sup> day of March, 2005, in New Orleans, Louisiana.

24  
25   
Paul G. Harch, M.D., Declarant

Declarant initials:

## Curriculum Vitae

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Paul G. Harch, M.D.  
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Fax: 504-366-1029  
E-Mail: [hmr@bellsouth.net](mailto:hmr@bellsouth.net)

### EDUCATIONAL BACKGROUND

- |           |   |
|-----------|---|
| 1976-1980 | Johns Hopkins University School of Medicine<br>Doctor of Medicine, 1980                                 |
| 1972-1976 | The University of California, Irvine<br>Bachelor of Science, Biology<br>Magna cum laude, Phi Beta Kappa |

### POSTGRADUATE TRAINING

- |                |   |
|----------------|---|
| 9/1987         | 13th Annual National Oceanographic and Atmospheric Administration Physician Diving Accident Medical Management Course, NOAA facility, Key Biscayne, Florida |
| 7/1986-7/1987  | Radiology resident, Louisiana State University School of Medicine, Charity Hospital, New Orleans, Louisiana   |
| 6/1986         | Orientation course in Hyperbaric Oxygen Therapy and Wound Care, Long Beach Medical Center, Long Beach, California   |
| 6/1980-12/1982 | Two years general surgery training at the University of Colorado Health Sciences Center, Denver, Colorado, with six months leave for auto-ped accident      |

### OTHER TRAINING

- |          |   |
|----------|---|
| 7/1/2004 | LSU Animal Care Orientation Training for basic science investigators.   |
| 3/4/2002 | Completion of self-certification course/Human Subjects Protection Educational Program for clinical investigators. |

### WORK EXPERIENCE

- |              |  |
|--------------|--|
| 2002-present | Named Director, LSUHSC/Medical Center of Louisiana, New Orleans Hyperbaric Medicine and Wound Care Department            |
| 9/1998-5/99  | Medical Director, Jo Ellen Smith Hyperbaric Medicine and Wound Care Unit, Jo Ellen Smith Medical Center, New Orleans, LA |

7/1993-1998	Assistant Director, Jo Ellen Smith Hyperbaric Medicine and Wound Care Unit, Jo Ellen Smith Medical Center, New Orleans, LA
7/1993 - Present	Medical Director, LSU Hyperbaric Medicine and Wound Care Fellowship Program, Jo Ellen Smith Medical Center (New Orleans, LA) 1993-5/1999, St. Charles General Hospital (New Orleans, LA) 5/1999-12/2004, West Jefferson Medical Center (Marrero, LA) 12/2004-present
7/1991-6/1993	Medical Research Director, LSU Hyperbaric Medicine and Wound Care Fellowship Program
7/1990-7/1993	Co-director, Department of Hyperbaric Medicine and Wound Care, Northshore Regional Medical Center, Slidell, LA
7/1988-7/1993	Co-director, Emergency Department, Northshore Regional Medical Center, Slidell, LA
7/1988-7/1990	Director, Department of Hyperbaric Medicine and Wound Care, Northshore Regional Medical Center, Slidell, LA
6/1986-Present	Hyperbaric Medicine and Wound Care, independent contractor with Van Meter & Associates, multiple facilities in Metro New Orleans and vicinity
7/1985 - 7/1988	Staff physician, Hyperbaric Medicine and Wound Care Dept., Northshore Regional Medical Center, Slidell, LA
7/1985-Present	Emergency Medicine, independent Contractor, Van Meter & Associates Emergency Medicine Physicians. Emergency department experience at multiple New Orleans area hospitals
7/1984-6/1985	Staff physician, emergency department, Hotel Dieu Hospital, New Orleans, Louisiana
5/1983-9/1984	Minor Emergency Center, Denver Tech Center/Swedish Hospital, Englewood, Colorado

#### CERTIFICATION AND LICENSURE

Certified Fitness to Dive Examiner, Undersea and Hyperbaric Medical Society Course, New Orleans, 2/13-2/16/2004.

Diplomate, Board of Certification in Emergency Medicine, Inc., American Association of Physician Specialties, Forest Park, Georgia, July, 1997

Diplomate, American Board of Hyperbaric Medicine, Austin, Texas, February 8, 1991.

Licensed in Colorado-1981 (voluntarily not renewed late 1980's), Louisiana - July, 1984; California - April, 1997; and Mississippi - August, 1997

SPEX Certification Exam, taken in Metairie, Louisiana, 1996, as prerequisite for California Medical Licensure.

#### APPOINTMENTS & HONORS

8/2004	Elected to the Board of Directors, The American Board of Hyperbaric Medicine,
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Austin, Texas.

- 4-8/2004 Nominée and subsequent semi-finalist for NIH Director's Pioneer Award
- 8/2003 Featured in ABC 26 News Series, "Unsung Hero", New Orleans, LA
- 7/2003 Richard A. Neuhauer, MD Award for "Excellence in Hyperbaric Medicine for Pediatric Neurology" presented by International Hyperbaric Medical Association and "Friends of Rebecca"
- 4/2003 Founder, President, and Chairman of the Board, International Hyperbaric Medical Association Foundation, a not-for-profit research, educational, and training foundation, Alexandria, Virginia.
- 2/2003 Third Place, Clinical Fellow Category- Dr. Julie Anderson (Dr. Harch-Clinical Faculty), LSU School of Medicine Annual Resident and Fellows' Research Forum, February, 2003, for: Successful Delayed Hyperbaric Treatment of Decompression Illness in a Sport SCUBA Diver.
- Fall, 2002 Peer Reviewer and Consultant to AHRQ-funded Oregon Health Science Center Evidence Based Medicine Review: HBO<sup>2</sup> and Brain Injury, Fall 2001 – Fall 2002
- 2/2002 First Place, Clinical Fellow Category-Dr. Tracy LeGros (Dr. Harch-Clinical Faculty), LSU School of Medicine Annual Resident and Fellows' Research Forum, February, 2002, for: The Effect of Low Dose Hyperbaric Oxygen Therapy on the SPECT Brain Imaging and Cognitive Function of an Alzheimer's Patient.
- 1/2002 Oral Examiner for Emergency Medicine Board Exam, Board of Certification in Emergency Medicine, Atlanta, Georgia (January 2002, January 1999, January 1998, November 1997)
- 11/1/2001 Submitted the scientific argument and application to the Center for Medicare and Medicaid Services of the U.S. Dept. of Health and Human Services for approval of hyperbaric oxygen therapy reimbursement for diabetic foot wounds. Granted 4/1/2003.
- 7/2001-12/2004 President, International Hyperbaric Medical Association
- 7/26/2001 Elected first president of the International Hyperbaric Medical Association at 2<sup>nd</sup> International Symposium on Hyperbaric Oxygenation and the Brain Injured Child, Ft. Lauderdale, Florida
- 6/28/2001 Appointed Vice-President of the newly formed International Hyperbaric Medical Association, West Palm Beach, Florida.
- 6/2/2001 Invited guest speaker (3 segments) on Children's Miracle Network Telethon of Southeast Texas, Port Arthur, TX, June 2, 2001
- 3/16/2001 Guest speaker at Medical Center of Louisiana Foundation Board Meeting, University Hospital, New Orleans, LA.
- 2/8/2001 Invited guest appearance on Health Call TV Show for HOTFAST (Hyperbaric Oxygen Therapy For Acute Stroke) Trial, WLAF-TV, New Orleans, LA hosted by Jerry Romig.

2000-Present	Clinical Assistant Professor, Grant Faculty, LSU School of Medicine, New Orleans, Dept. of Medicine, Emergency Medicine Section
October, 1999	Best Paper Award for Excellence in Research, 1999 Research Forum, Emergency Medicine Foundation. VanMeter KW, Swanson HT, Sheps SS, Barratt DM, Roycraft EL, Moises I, Killeen J, Harch PG Oxygen dose response in open-chest ACLS in swine after a 25-minute cardiopulmonary arrest. <i>Annals of Emergency Medicine</i> , 1999, 34(4):511.
1998-Present	National Coordinator and Co-Principal Investigator, Hyperbaric Oxygen Therapy in Acute Stroke Pilot Trial (HOTFAST) — by invitation of James Toole, M.D., President of World Federation of Neurology. Director - National Stroke Research Center, Bowman Gray School of Medicine of Wake Forest University
6/20/98	Invited participant to planning group meeting of the German hyperbaric oxygen therapy in acute stroke trial, Göttingen, Germany
5/1998	Chairman and Coordinator of Symposium on Design of a Multi-Center Hyperbaric Oxygen Therapy/Stroke Trial, May 10-12, 1998, Washington, DC. Congress on Cerebral Ischemia, Vascular Dementia, Epilepsy and CNS Injury, World Federation of Neurology, Research Group on Space and Underwater Neurology
11/1997	Elected Fellow of the American College of Hyperbaric Medicine
1992-2000	Clinical Instructor, Grant Faculty, LSU School of Medicine, New Orleans, Dept. of Medicine, Emergency Medicine Section
1/1994-Present	Member, Board of Directors, Biomedical Research Institute, New Orleans, LA

#### LEGAL EXPERIENCE

Served on 4 Physician Review Panels in Louisiana malpractice cases.

Expert witness in emergency and diving medicine. Multiple state and federal cases.

Testimony at four Daubert hearings on SPECT Brain Imaging and Hyperbaric Oxygen Therapy for Neurological Injuries

Expert witness in Georgia Medicaid Appeal Hearing, Approval of reimbursement for Hyperbaric Oxygen Treatment of Cerebral Palsy, July, 2000.

#### PUBLICATIONS and BOOK CHAPTERS

- 1) Harch PG, Neubauer RA. Hyperbaric Oxygen Therapy in Global Cerebral Ischemia/Anoxia and Coma, Chapter 18. In: Jain KK (ed). *Textbook of Hyperbaric Medicine, 4<sup>th</sup> Revised Edition*. Hogrefe & Huber Publishers, Seattle WA, 2004. (Major Revision and Update of Previous Edition).
- 2) Neubauer V, Neubauer RA, Harch PG. HBO in the Management of Cerebral Palsy, Chapter 21. In: Jain KK (ed). *Textbook of Hyperbaric Medicine, 4<sup>th</sup> Revised Edition*. Hogrefe & Huber Publishers, Seattle WA, 2004. (New Chapter).

- 3) Van Meter K, Weiss L, Harch PG. HBO in Emergency Medicine, Chapter 37. In: Jain KK (ed). Textbook of Hyperbaric Medicine, 4<sup>th</sup> Revised Edition. Hogrefe & Huber Publishers, Seattle, WA, 2004. (Major Revision and Update of Previous Edition).
- 4) Harch PG, Neubauer RA, Uszler JM, James PB. Appendix: Diagnostic Imaging and HBO Therapy, Chapter 41. In: Jain KK (ed). Textbook of Hyperbaric Medicine, 4<sup>th</sup> Revised Edition. Hogrefe & Huber Publishers, Seattle WA, 2004. (Moderate Revision and Update).
- 5) Harch PG. Exploring the Controversy (Response to Letter to the Editor Re: Hyperbaric Oxygen Therapy in Cerebral Palsy and Pediatric Neurology: A Scientific Perspective). Exceptional Parent Magazine, 8/2004;34(8):58-59.
- 6) Harch PG. Hyperbaric Oxygen Therapy in Cerebral Palsy and Pediatric Neurology: A Scientific Perspective. Exceptional Parent Magazine, 6/2004;34(6):39-46.
- 7) Harch PG. The Dosage of Hyperbaric Oxygen in Chronic Brain Injury. In The Proceedings of the 2<sup>nd</sup> International Symposium on Hyperbaric Oxygenation for Cerebral palsy and the Brain-Injured Child. Ed. James T. Joiner. Best Publishing Co., Flagstaff, Arizona, 2002, pp. 31-56.
- 8) Harch PG, Deckhoff-Jones J, Neubauer RA Low Pressure Hyperbaric Oxygen Therapy for Pediatric Brain Injury, A Minimal Risk Medical Treatment. PEDIATRICS, The American Academy of Pediatrics, P<sup>3</sup>R Review on Pediatrics Online, February 12, 2001
- 9) Harch, PG. McGill University Pilot Study of Hyperbaric Oxygen Therapy in the Treatment of Spastic Diplopia Cerebral Palsy. Hyperbaric Medicine Today, Vol. 1, Issue III, 2000; pp. 44-45, 49.
- 10) Harch PG. HOTFAST Hyperbaric Oxygen Therapy for Acute Stroke. Hyperbaric Medicine Today, Vol. 1, Issue II, 2000; 8.
- 11) Harch PG. Hyperbaric Medicine Officially Enters the Prohibition Era. Hyperbaric Medicine Today, Vol. 1, Issue II, 2000; pp. 13-16.
- 12) Harch PG, Neubauer RA. Hyperbaric Oxygen Therapy in Global Cerebral Ischemia/Anoxia and Coma. In: Jain KK (ed). Textbook of Hyperbaric Medicine, 3<sup>rd</sup> Revised Edition. Hogrefe & Huber Publishers, Seattle WA, 1999.
- 13) Harch PG, Neubauer RA, Uszler JM, James PB, Maxfield W. Functional Imaging. In: Jain KK (ed). Textbook of Hyperbaric Medicine, 3<sup>rd</sup> Revised Edition. Hogrefe & Huber Publishers, Seattle WA, 1999.
- 14) Van Meter K, Weiss L, Harch PG Hyperbaric Oxygen in Emergency Medicine. In: Jain KK (ed). Textbook of Hyperbaric Medicine, 3<sup>rd</sup> Revised Edition. Hogrefe & Huber Publishers, Seattle, WA 1999.
- 15) Harch PG. Late treatment of decompression illness and use of SPECT brain imaging. In Treatment of Decompression Illness, 45th Workshop of the Undersea and Hyperbaric Medical Society (eds RE Moon, PJ Sheffield). UHMS, Kensington, 203-242.
- 16) Harch PG, Van Meter KW, Neubauer RA, Gottlieb SF. Use of HMPAO SPECT for assessment of response to HBO in ischemic/hypoxic encephalopathies. In: Jain KK (ed). Textbook of hyperbaric medicine, 2nd Revised Edition. Hogrefe & Huber Publishers, Seattle WA, pp 480-491.
- 17) Van Meter K, Harch P, Gottlieb S. Use of hyperbaric oxygen in cardiopulmonary resuscitation (CPR). In: Jain KK (ed). Textbook of hyperbaric medicine, 2nd Revised Edition. Hogrefe & Huber Publishers, Seattle WA, pp 492-495.

- 18) Van Meter KW, Weiss L, Harch PG, et al. Should the pressure be off or on in the use of oxygen in the treatment of carbon monoxide-poisoned patients? *Annals of Emergency Medicine* 1994;24(2):283-288.
- 19) Maria Elena Sandoval, Paul Harch and Carl W. Cotman. Evaluation of glutamate as a hippocampal neurotransmitter: glutamate uptake and release from synaptosomes. *Brain Research*, 142 (1978) 285-299.
- 20) J. Frederick Wolf, Paul G. Harch, Robert W. Taft, Warren J. Hehre. Substituent effects on the stability of carbocations. The anomalous case of phenyl vs. cyclopropyl substitution. *Journal of the American Chemical Society*, 97:10, 2902-4, 1975.
- 21) J. Frederick Wolf, Paul G. Harch, Robert W. Taft. Concerning negligible aqueous solvent effects on proton transfer equilibria of aryl carbocations. *Journal of the American Chemical Society*, 91:10, 2904-5, 1975.

#### ABSTRACTS

- 1) Murphy-Lavoie H, Harch P, Van Meter K. Effect of Hyperbaric Oxygen on Central Retinal Artery Occlusion. *Undersea & Hyperbaric Medicine*, 2004;31(3):312.
- 2) Gentry P, Van Meter K, Harch P, LeGros T. Appearance of Suspicious Skin Lesions in a Patient Undergoing Hyperbaric Oxygen Therapy for Treatment of Soft Tissue Radionecrosis Secondary to Cutaneous T-Cell Lymphoma. *Undersea & Hyperbaric Medicine*, 2004;31(3):350-1.
- 3) Anderson J, Harch P, LeGros TL. Successful Delayed Hyperbaric Treatment of Decompression Illness in a Sport SCUBA Diver. Abstract, LSU School of Medicine Annual Resident and Fellows' Research Forum, February, 2003.
- 4) Murphy-Lavoie H, Harch P, Van Meter K. Chronic Non-Healing Wound Responds to Autologous Platelet Release Graft. LSU School of Medicine Annual Resident and Fellows' Research Forum, February, 2002.
- 5) LeGros T, Staab P, Van Meter K, Harch P. The Effect of Low Dose Hyperbaric Oxygen Therapy on the SPECT Brain Imaging and Cognitive Function of an Alzheimer's Patient. Abstract, LSU School of Medicine Annual Resident and Fellows' Research Forum, February, 2002.
- 6) Harch PG, Kriedel CL, Weisend MP, Van Meter KW, Sutherland RJ. Low Pressure Hyperbaric Oxygen Therapy (LPHBOT) Induces Cerebrovascular Changes and Improves Cognitive Function in a Rat Traumatic Brain Injury (TBI) Model. *Undersea Hyper Med* 2001; 28 Suppl :28.
- 7) Van Meter K, Moises J, Marcheselli V, Murphy-Lavoie H, Barton, C, Harch P, Bazan N. Attenuation of Lipid Peroxidation in Porcine Cerebral Cortex After A Prolonged 25-Minute Cardiopulmonary Arrest by High-Dose Hyperbaric Oxygen (HBO). *Undersea Hyper Med*, 2001;28 Suppl.
- 8) Van Meter KW, Swanson HT, Sheps SS, Baccari DM, Roycraft FL, Moises J, Killoran J, Harch PG. Oxygen dose response in open-chest ACLS in swine after a 25-minute cardiopulmonary arrest. *Annals of Emergency Medicine*, 1999, 34(4):511
- 9) Burren KF, Masel BE, Harch PG, Ingram F, Corson KP, Mader JT Cerebral Blood Flow Changes and Cognitive Improvement in Chronic Stable Traumatic Brain Injuries Treated with Hyperbaric Oxygen Therapy. *Neurology*, April 1998; (Suppl) A178-A179.
- 10) Harch PG. Hyperbaric Oxygen Therapy: Pharmacology and Effects on Pathophysiology in Acute Central Nervous System Ischemia and Anoxia. Proceedings of the 1998 Congress on Cerebral Ischemia, Vascular Dementia, Epilepsy and CNS Injury, Fourth Congress of the Space and Underwater Neurology Research Group of the World Federation of Neurology, National Stroke Research Center, Winston-Salem, North



Carolina.

- 11) Harch PG, Van Meter K. Controversies in the Treatment of Acute Carbon Monoxide Intoxication. Proceedings of the 1998 Congress on Cerebral Ischemia, Vascular Dementia, Epilepsy and CNS Injury, Fourth Congress of the Space and Underwater Neurology Research Group of the World Federation of Neurology, National Stroke Research Center, Winston-Salem, North Carolina.
- 12) Van Meter K, Harch PG. Acute Decompression Sickness--Central Nervous System Only. Proceedings of the 1998 Congress on Cerebral Ischemia, Vascular Dementia, Epilepsy and CNS Injury, Fourth Congress of the Space and Underwater Neurology Research Group of the World Federation of Neurology, National Stroke Research Center, Winston-Salem, North Carolina.
- 13) Toyner L, Harch P, Desai A, Brautbar N. Chronic Neurological Symptomatology and Abnormal SPECT Tomographic Analysis of the Brain After Nitrogen Tetroxide Exposure (N<sub>2</sub>O<sub>4</sub>). 1998 Society of Toxicology Annual Meeting (Abstract accepted)
- 14) Harch PG, Kriedt CL, Weisend MP, Van Meter KW, Sutherland RJ. Low pressure hyperbaric oxygen therapy induces cerebrovascular changes and improves cognitive and motor function in a rat traumatic brain injury model. *Undersea and Hyperbaric Medicine*, 1996; 23 (Suppl): 48.
- 15) Van Meter KW, Swanson HT, Sheps S, Ross D, Harch PG, Simanonok J, Buechter K, McSwain N, Kriedt F, Gottlieb SF, Gonzalez R, Anstadt G. A pilot study to determine the safety and practicality of using a single human resuscitator for a MVAD assisted ACLS after a 15 minute ventricular fibrillation in swine in a hyperbaric chamber at 1.0, 2.8, and 6.0 ATA/abs. 1996 Undersea and Hyperbaric Medical Society Annual Scientific Meeting. *UHM Vol. 23 (Suppl): 69.*
- 16) Van Meter KW, Swanson HT, Sheps S, Ross D, Harch PG, Buechter K, McSwain N, Kriedt F, Gottlieb SF, Gonzalez R, Anstadt G. Use of varying hyperbaric pressure to influence pulmonary artery SvO<sub>2</sub> values. Louisiana State University Neuroscience Center Retreat Day, 1996.
- 17) Van Meter KW, Swanson HT, Sheps S, Ross D, Harch PG, Buechter K, McSwain N, Kriedt F, Gottlieb SF, Gonzalez R, Anstadt G. Electrical defibrillation to treat ventricular fibrillation in a controlled, non-randomized pilot in swine. 1996 Gulf Coast Chapter Undersea and Hyperbaric Medical Society Annual Meeting. (Abstract accepted).
- 18) Harch PG, Van Meter K, Staab PK, Gottlieb SF. HMPAO SPECT brain imaging-guided hyperbaric oxygen therapy in the treatment of neurological residual of carbon monoxide poisoning. 1995 UHMS Gulf Coast Chapter Annual Meeting, New Orleans, LA, Mar 30 - Apr 2, 1995.
- 19) Van Meter K, Harch P, Weiss L, Andrews C, Simanonok J, Gottlieb S. 14 year experience of the use of a tailing of hyperbaric oxygen treatments to lessen or resolve neurologic illness (DCI) in the acute (15 day) and sub-acute (16 day to 6 month) post-injury period. 1995 UHMS Gulf Coast Chapter Annual Meeting, New Orleans, LA, Mar 30 - Apr 2, 1995.
- 20) Ross D, Van Meter K, Swanson HT, Sheps S, Gottlieb SF, Anstadt G. Practical adaptation of the Anstadt heart cup (direct mechanical ventricular actuation/DMVA) for use in open chest resuscitation of swine in cardio-pulmonary arrest in hyperbaric environment. 1995 UHMS Gulf Coast Chapter Annual Meeting, New Orleans, LA, Mar 30 - Apr 2, 1995.
- 21) Harch PG, Van Meter KW, Gottlieb SF, Staab P. HMPAO spect brain imaging of acute CO poisoning and delayed neuropsychological sequelae (DNSS). *Undersea & Hyperbaric Medicine*, 1994;21(Suppl):15.

- 22) Harch PG, Van Meter KW, Gottlieb SF, Staab P. The effect of HBOT tailing treatment on neurological residual and SPECT brain images in type II (cerebral) DCS/CAGE. *Undersea & Hyperbaric Medicine*, 1994;21(Suppl):22-23.
- 23) Harch PG, Gottlieb SF, Van Meter KW, Staab P. HMPAO SPECT brain imaging and low pressure HBOT in the diagnosis and treatment of chronic traumatic, ischemic, hypoxic and anoxic encephalopathies. *Undersea & Hyperbaric Medicine*, 1994; 21(Suppl):30.
- 24) Paul G. Harch, Keith W. Van Meter, Sheldon F. Gottlieb, Paul Staab. Delayed treatment of type II DCS: the importance of low pressure HBOT and HMPAO SPECT brain imaging in its diagnosis and treatment. *Undersea & Hyperbaric Medicine*, 20(Suppl):51, 1993.
- 25) Paul G. Harch, Sheldon F. Gottlieb, Keith Van Meter, Paul K. Staab. SPECT brain imaging in the diagnosis and treatment of type II decompression sickness. *Undersea Hyper Med*, 1992;19(Suppl):42.
- 26) Paul G. Harch, Sheldon F. Gottlieb, Keith Van Meter, E. Kenneth Kerut, Harvey T. Swanson. Demonstration and explanation of the breach of the pulmonary filter with transesophageal bubble contrast echocardiography. *Proceedings, 1992 Annual Scientific Meeting of the Undersea and Hyperbaric Medical Society*, Bethesda, Maryland, June, 1992.
- 27) Mnuw MW, Wolf CS, Zelenak RR, Harch PG, Bahor LW, Glorioso LW et al. A prospective study comparing cervical spine radiographic evaluations with clinical presentations. *Annals of Emergency Medicine* 1988 17:9;879-880.

#### ALTERNATE PUBLICATIONS AND FEATURED ARTICLES

- 1) Paul G. Harch, Wound Healing: Update on Growth Factors, *Hyperbaric Oxygen Today*, volume 3, number 1, Summer, 1991, Jo Ellen Smith Hyperbaric Medicine and Diving Unit, New Orleans, LA.
- 2) Paul G. Harch, Amputation: The Last Resort, article in *Doctor's Notes*, an insert into the Slidell Sentry News and other Gulf Coast Sunday newspapers, August 18, 1991.
- 3) Keith Van Meter, Paul G. Harch, Hyperbaric Oxygen Therapy and Carbon Monoxide Poisoning, *Hyperbaric Oxygen Today*, volume 2, number 1, Winter, 1990.
- 4) Paul G. Harch, Keith Van Meter, Hyperbaric Oxygen Therapy and Thermal Burns, *Hyperbaric Oxygen Today*, volume 1, number 2, Winter, 1989, Jo Ellen Smith Hyperbaric Medicine and Diving Unit, New Orleans, LA.

#### SPEAKING ENGAGEMENTS, LECTURES AND PRESENTATIONS

- 1) Hyperbaric Oxygen Therapy in Anti-Aging, 12<sup>th</sup> World Congress on Anti-Aging, Mandalay Bay Resort, Las Vegas, Nevada, 12/2/2004.
- 2) Hyperbaric Oxygen Therapy in Neurological and Intellectual Disabilities, and Hyperbaric Oxygen Therapy in Chronic Brain Injury, World Congress on Disabilities, Orlando Convention Center, 10/8/2004.

- 3) Hyperbaric Oxygen Therapy: A Re-Appraisal. Tulane University Department of Exercise and Sport Sciences, New Orleans, LA, 10/7/2004.
- 4) Hyperbaric Oxygen Therapy in Pervasive Developmental Delay, Autism, and Autism Spectrum Disorders, at Impact of Mercury on Human Health and the Environment Workshop, Tulane University Health Sciences Center School of Public Health and Tropical Medicine Department of Environmental Health Sciences, Radisson Hotel, New Orleans, LA, 9/24/2004.
- 5) Hyperbaric Oxygen Therapy in Pervasive Developmental Delay, Autism, and Autism Spectrum Disorders, 4<sup>th</sup> International Symposium on Hyperbaric Oxygenation and the Brain Injured Child, Ft. Lauderdale, Florida, July 29, 2004.
- 6) Hyperbaric Oxygen Therapy in Pervasive Developmental Delay, Autism, and Autism Spectrum Disorders, Autism One Conference, Westin Hotel, Chicago, Illinois, May 28, 2004.
- 7) **Testimony:** "Hyperbaric Oxygen Therapy in the Treatment of Autism Spectrum Disorders", at hearing on "Autism Spectrum Disorders: An Update of Federal Government Initiatives and Revolutionary New Treatments of Neurodevelopmental Diseases", before the **Government Reform and Oversight Committee-- Subcommittee on Wellness and Human Rights**, May 6, 2004, Washington, D.C.
- 8) **Testimony:** "Neurological Treatments with Hyperbaric Medicine Will Save Billions in Government Health Care, Disability, and Education Costs", before the **Labor, Health and Human Services and Education Subcommittee of the Committee on Appropriations, United States House of Representatives**, April 27, 2004, Washington, D.C.
- 9) Hyperbaric Oxygen Therapy in Chronic Traumatic Brain Injury. Louisiana Trial Lawyers' Association CME Series, Baton Rouge, Louisiana, 3/12/2004.
- 10) HBOT and Stroke, American College for Advancement in Medicine (ACAM) 2003 Fall Conference, Las Vegas, Nevada November 21, 2003.
- 11) Hyperbaric Oxygen Therapy and SPECT Brain Imaging in the Treatment of Chronic Brain Injury, International Academy of Oral Medicine & Toxicology (IAOMT) 2003 Annual Meeting, New Orleans, LA September 12, 2003.
- 12) Low Pressure Hyperbaric Oxygen Therapy in Chronic Brain Injury: Proof of Efficiency in Humans with an Animal Model. 3<sup>rd</sup> International Symposium for Cerebral Palsy and the Brain Injured Child, Ft. Lauderdale, FL, July 17, 2003.
- 13) Hyperbaric Oxygen Therapy: A Reappraisal, Oklahoma State University Center for Health Sciences, Grand Rounds, Tulsa, Oklahoma April 23, 2003.
- 14) Advances in Whole Blood Processing, Region 5 Technical Conference, Institute of Electrical and Electronic Engineers, Hyatt Hotel, April 11, 2003 New Orleans, Louisiana.
- 15) Hyperbaric Oxygen Therapy (HBOT) in the Treatment of Diabetic Foot Wounds, Louisiana State University Health Science Center Medicine Grand Rounds, February 27, 2003, New Orleans, Louisiana.
- 16) Hyperbaric Oxygen Therapy in Acute and Chronic Traumatic Brain Injury, Brain Injury Across the Lifespan Conference, The Brain Injury Association of Oklahoma and INTEGRIS Jim Thorpe Rehabilitation Network, Oklahoma City, Oklahoma November 1, 2002.

- 17) Hyperbaric Oxygen Therapy in Auto-Immune Disorders presented to Fibromyalgia Support Group, Doctors' Hospital, Metairie, LA October 30, 2002
- 18) "Pro" Panel Member of Workshop: The role of HBO in Neurological Disorders, International Congress on Hyperbaric Medicine, San Francisco, California, October, 2, 2002
- 19) **Testimony:** "The Impact of Hyperbaric Medicine on Government Health Care, Disability and Education Expenditures", before the **Labor, Health and Human Services and Education Subcommittee of the Committee on Appropriations, United States House of Representatives**, May 2, 2002, Washington, D.C.
- 20) Submission of Application for CMS coverage of HBOT for Diabetic Foot Wounds and subsequent meeting with CMS officials for same; also meetings and correspondence prior to submission of application, June 2001 -- April 2002
- 21) Formulation of Criteria and Protocols for HBOT in Brain Injury for Texas House Bill 1676 and subsequent phone conference and presentation of same to Texas Dept. of Insurance, Austin, Texas, Fall, 2001 through March 2002 (as President of International Hyperbaric Medical Association [IHMA] )
- 22) Hyperbaric Oxygen Therapy: A Reappraisal, Crittenton Hospital Medical Center, Continuing Medical Education Program, Department of Surgery, February 27, 2002, Rochester, Michigan
- 23) Hyperbaric Oxygen Therapy in Chronic Traumatic Brain Injury and Substance Abuse, Boys Town National Research Hospital, October 5, 2001, Omaha, Nebraska
- 24) Lecture on Hyperbaric Oxygen and Brain Injury to Administration and Select Physicians at St. Elizabeth's Hospital, Beaumont, Texas, September 17-18, 2001. ...
- 25) Expert Testimony (as President of the IHMA) at the Texas Medicaid Appeal Hearing of William Cready for Hyperbaric Oxygen Therapy in Anoxic Brain Injury, Teleconference, August 15, 2001
- 26) The Dosage of Hyperbaric Oxygen in Chronic Brain Injury. 2<sup>nd</sup> International Symposium on Hyperbaric Oxygenation for Cerebral Palsy and the Brain-Injured Child, July 25-28, 2001, Boca Raton, Florida
- 27) Presentation to UHMS HBOT Committee of Pro-Argument for Inclusion of Acute Severe Traumatic Brain Injury on Accepted Indications List. Thirty-Fourth Annual Undersea & Hyperbaric Medical Society Scientific Meeting, June 14-16, 2001, San Antonio, Texas
- 28) Low Pressure Hyperbaric Oxygen Therapy (LPHBOT) Induces Cerebrovascular Changes and Improves Cognitive Function in a Rat Traumatic Brain Injury (TBI) Model. Thirty-Fourth Annual Undersea & Hyperbaric Medical Society Scientific Meeting, June 14-16, 2001, San Antonio, Texas
- 29) Effects of Hyperbaric Medicine on the Brain presented to Oklahoma Center for Neuroscience, The University of Oklahoma Health Sciences Center, Stanton L. Young Biomedical Research Center, April 19, 2001
- 30) Effects of Hyperbaric Medicine on the Brain presented to Oklahoma Medical Research Foundation, Wilentz Learning Center, Oklahoma City, Oklahoma April 18, 2001
- 31) Hyperbaric Oxygen Therapy and its' effect on Neuro-rehabilitation, Jim Thorpe Rehabilitation Center, Integris Health, Oklahoma, April 18, 2001
- 32) Hyperbaric Oxygen Therapy in Head and Neck Radionecrosis and Osseointegration, LSU Dental Clinic, Charity Campus, April 6, 2001

- 33) Hyperbaric Oxygen Therapy - A Reappraisal: Application to Acute and Chronic Neurological Injury. Invited presentation through the office of Congressman Istook to National Institutes of Health, Neurological Divisions, February 21, 2001, Bethesda, Maryland.
- 34) Hyperbaric Oxygen Therapy in Acute and Chronic Brain Injury with Special Emphasis on Acute Traumatic Brain Injury, invited through the office of Congressman Istook to give presentation to American Heart Association, Veteran's Administration, NIMH Mental Health Agency, SAMSHA, and other Federal Government Agencies, hosted by the Agency for Healthcare Research & Quality, Feb. 21, 2001, Rockville, Maryland.
- 35) Generic Inhibitory Drug Effect of Hyperbaric Oxygen Therapy (HBOT) on Reperfusion Injury, a segment of the Focused Workshop, "Hyperbaric Oxygenation: A New Therapy for Acute Brain Injury (Traumatic and Vascular) presented under the Auspices of the Space and Underwater Research Group of the World Federation of Neurology at EFNS-2000, 5<sup>th</sup> Congress of the European Federation of Neurological Societies, October 14-18, 2000, Copenhagen, Denmark
- 36) Hyperbaric Oxygen Therapy in Central Nervous System Rehabilitation presented to Louisiana State University School of Medicine, Dept. of Physical Medicine and Rehabilitation, New Orleans, LA August 4, 2000
- 37) Hyperbaric Oxygen Therapy in Treatment of Chronic Stroke and other Neurological Diseases presented to the Adult Communicative Disorders Support Group at Ochsner Clinic, Division of Communicative Disorders, New Orleans, LA July 17, 2000
- 38) Hyperbaric Oxygen Therapy: A Reappraisal presented at West Jefferson Medical Center, CME Activity, Marrero, LA June 21, 2000
- 39) Parent Networking and Discovery of Hyperbaric Oxygen as a Therapy for Brain Damage (Julie Gordon, MLIMS and Paul Harch, M.D.) presented at "Crossing Disciplines and Boundaries to Improve Perinatal Care" A Multi-State Conference, National Perinatal Association, Albany, N.Y., June 9, 2000
- 40) Hyperbaric Oxygen Therapy in Head and Neck Radionecrosis and Osseointegration presented to LSU Oral and Maxillofacial Department, LSU Dental School, New Orleans, LA, March 28, 2000
- 41) Hyperbaric Oxygen Therapy for Cerebral Palsy presented to Farhad Grotto, Harahan, LA, March 22, 2000
- 42) Hyperbaric Oxygen Therapy & SPECT Brain Imaging in the Treatment of Static Encephalopathy presented to the Southeast Regional Chapter of Physical Therapists, Children's Hospital, New Orleans, LA, December 1, 1999
- 43) Hyperbaric Oxygen Therapy & SPECT Brain Imaging in the Treatment of Static Encephalopathy of Childhood presented to Jefferson Parish School Board's Physical and Occupational Therapy Department, Harahan, LA, November 11, 1999
- 44) Guest on CHQR Radio, Topic: Hyperbaric Oxygen Therapy, Calgary, Canada, November 9, 1999
- 45) Hyperbaric Oxygen Therapy (HBOT) in Acute and Chronic Human Global Ischemia, Anoxia, and Coma (GIAC): A Review of Treatment Timing, Pressures, and Numbers presented at the 4<sup>th</sup> Congress of the European Federation of Neurological Societies, Lisbon, Portugal, September, 1999
- 46) Hyperbaric Oxygen Therapy for Cerebral Palsy and Static Encephalopathy of Childhood presented at 1<sup>st</sup> International Symposium on Cerebral Palsy & The Brain Injured Child, Boca Raton, FL, July 23 - 25, 1999

- 47) Cerebral Palsy/HBOT Interview by Meg Farris for Medical Watch segment of Channel 4 Eyewitness News, New Orleans, LA, 4/30/99
- 48) Application of Hyperbaric Oxygen Therapy to Acute Neurological Conditions presented at Hyperbaric Medicine 1999, 7<sup>th</sup> Annual Advanced Symposium, Columbia, South Carolina, April, 1999
- 49) Hyperbaric Oxygen Therapy: A Reappraisal presented at University of Texas Southwestern Medical Center at Dallas, UT Southwestern Faculty Club, Emergency Medicine Residents, and Alternative Medicine Research Foundation, February 23, 1999, Dallas, Texas
- 50) Hyperbaric Oxygen Therapy Effect on Reperfusion Injury presented at "HBO-Quo Vadis?" HBO-Workshop 1998, November 28-29, 1998, Graz, Austria
- 51) Hyperbaric Oxygen Therapy Effect on Reperfusion Injury presented at Interdisciplinary Symposium on Hyperbaric Oxygen Therapy 1998, Impromptu Lecture, June 20-21, 1998, Göttingen, Germany
- 52) Hyperbaric Oxygen Therapy: Pharmacology and Effects on Pathophysiology in Acute Central Nervous System and Anoxia. Presented at PS1-Symposium Hyperbaric Oxygen Therapy in Acute Ischemic and Anoxic Central Nervous System Injury, co-chaired by P. March and J. Aarli, Congress on Cerebral Ischemia, Vascular Dementia, Epilepsy and CNS Injury, May 9-13, 1998, Washington, DC.
- 53) Controversies in the Treatment of Acute Carbon Monoxide Intoxication. Presented at PS8-Symposium Hyperbaric Medicine for Acute CNS Injury, Congress on Cerebral Ischemia, Vascular Dementia, Epilepsy and CNS Injury, May 9-13, 1998, Washington, DC.
- 54) Chronic Neurological Symptomatology and Abnormal SPECT Tomographic Analysis of the Brain After Nitrogen Tetroxide Exposure (N2O4). 1998 Society of Toxicology Meeting, March 4-5, 1998.
- 55) Session 3 - Physics and Delivery Systems: Hyperbaric Oxygen Concepts, Dosage, Pressures, Effects, Timing, and Applications to Stroke. Hyperacute Hyperbaric Oxygen Therapy in Stroke Workshop sponsored by the Stroke Research Center, Bowman Gray School of Medicine, November 2 - 4, 1997, Winston-Salem, NC.
- 56) Review of SPECT Brain Imaging and Decompression Sickness presented to Diving Medicine Group at Pensacola Naval Air Station, Pensacola, Florida, Physiology Department 10/2/97
- 57) Hyperbaric Oxygen Therapy in the Treatment of Acute and Chronic Brain Injury. Hyperbaric Section Meeting, American College of Emergency Physicians, September 9, 1996, New Orleans, Louisiana.
- 58) Hyperbaric Oxygen Therapy in the Treatment of Chronic Cerebral Palsy. Presentation to Miami Children's Hospital, Department of Pediatric Neurology, 1996.
- 59) Videotape case presentations, Hyperbaric Oxygen Therapy in the Treatment of Chronic Cerebral Palsy, International Hyperbaric Oxygen Therapy Meeting, Buenos Aires, Argentina, September, 1996.
- 60) Hyperbaric Oxygen Therapy: A Reappraisal. Northshore Regional Medical Center Medical Staff, March 20, 1996.
- 61) Hyperbaric Oxygen Therapy and SPECT Brain Imaging in Treatment of Cerebral Manifestations of Autoimmune Diseases. LSU School of Medicine Monthly Citywide Rheumatology Conference, September 27, 1995, New Orleans, Louisiana.

- 62) CNS Injuries and Hyperbaric Oxygen Therapy. Indications and Use of Hyperbaric Oxygen Therapy, August 18-20, 1995, Gulfport, Mississippi, Gulfport Regional Medical Center.
- 63) Late treatment of decompression illness and use of SPECT brain imaging. Workshop on Treatment of Decompression Illness, June 18-19, 1995, Palm Beach Florida.
- 64) New Concepts in the Treatment of Cerebral Decompression Sickness, Louisiana Council of Underwater Diving Clubs, Jo Ellen Smith Medical Center, February 11, 1995.
- 65) New Concepts in the Treatment of Cerebral Decompression Sickness, Recertification Course for Diver Medics, Houma, Louisiana, February 12, 1995.
- 66) Angiogenesis in Hyperbaric Oxygen Therapy; Neurological Ramifications; Perfusion/Metabolism Deficits; Carbon Monoxide Poisoning (Smoke Inhalation). Lectures during Hyperbaric Medicine: Its Theoretical Foundations and Applications, December 12-16, 1994, L.S.U. Medical Center, New Orleans, LA.
- 67) New Concepts in Treatment of Cerebral Decompression Sickness; Advances in the Treatment of Brain Injuries Such as Trauma and Stroke. Indications and Use of Hyperbaric Oxygen Therapy, October 8-10, 1994, Gulfport Mississippi.
- 68) Hyperbaric Oxygen Therapy Tailing Treatment and SPECT Brain Imaging in the Treatment of Cerebral Decompression Sickness. Presentation to the conjoint meeting of the Research Group on Space and Underwater Neurology of the World Federation of Neurology and the American College of Hyperbaric Medicine, August 26, 1994, Ft. Lauderdale, Florida.
- 69) Grand Rounds. Hyperbaric Oxygen Therapy in Chronic Brain Injury. August 16, 1994, University of Texas Medical Branch, Galveston, Texas.
- 70) Decompression Sickness, Encephalopathy and SPECT Brain Imaging, NBDHMT Diver Medic Recertification Course, Jo Ellen Smith Medical Center Hyperbaric Medicine and Diving Unit, New Orleans, LA February 26, 1994.
- 71) SPECT Brain Imaging and Low Pressure Hyperbaric Oxygen Therapy in the Diagnosis and Treatment of Type II Brain Decompression Sickness. L.S.U. School of Medicine, Department of Medicine Grand Rounds, New Orleans, LA, February 17, 1994.
- 72) Diving Accidents and Decompression Sickness. Indications and Use of Hyperbaric Oxygen Therapy in Clinical Practice, October 22, 1993, Holiday Inn, Beachfront, Hosted by Hyperbaric Medicine and Problem Wound Care Unit, Memorial Hospital at Gulfport, Mississippi.
- 73) Decompression Sickness: Why Standard Treatment Fails in Delayed Presentation Cases, delivered at the Satellite Symposium World Federation of Neurology Research Group on Space and Underwater Neurology, Waterfront Centre Hotel, Vancouver, British Columbia, September 11, 1993.
- 74) Edgar End Memorial Award presented for Edgar End Memorial Lecture, "Appropriate Diagnosis and Treatment of the Brain Injured Diver with SPECT Brain Imaging and Hyperbaric Oxygen therapy," American College of Hyperbaric Medicine Annual Meeting/Gulf Coast Chapter Undersea and Hyperbaric Medical Society Annual Meeting, April 24, 1993, Ft. Lauderdale, Florida.
- 75) Brain Imaging in Decompression Illness. Guest lecturer, Advanced Topics in Hyperbaric Medicine Course, April 5-7, 1993, Columbia, South Carolina.

- 76) SPECT Brain Imaging in the Diagnosis and Treatment of Delayed Presentation Cases of Brain Decompression Sickness. Second Annual Meeting of the Research Group on Space and Underwater Neurology, World Federation of Neurology, Messina, Sicily, October 21, 1992.
- 77) Hyperbaric Medicine, A Limited Review, Primary Practice Considerations II, September 8, 1991, sponsored by Northshore Regional Medical Center, Westin Canal Place, New Orleans, LA.
- 78) Pulmonary Barotrauma I: Cerebral Arterial Air Embolism, National Board of Diving and Hyperbaric Medical Technology (NBDHMT), Diver Medic Recertification Program, February 23, 1991, Jo Ellen Smith Hyperbaric Medicine and Diving Unit, New Orleans, LA.
- 79) Reducing the Risk of Decompression Sickness, NBDHMT Diver Medic Recertification Program, February 24, 1991, Jo Ellen Smith Hyperbaric Medicine and Diving Unit, New Orleans, LA.
- 80) Managing Patients With Pain of Sudden Onset, Pain Management Inservice, November 6, 1990, Northshore Regional Medical Center, Slidell, LA.
- 81) Hyperbaric Oxygen Therapy and Podiatry, Keynote address, Region Ten Meeting of the American Podiatric Association, Westin Canal Place, October 18, 1990, New Orleans, LA.
- 82) Choices and Consequences of "Doin the Wild Thing," Young Adult Series Part III, Community Education Series, June 21, 1990, Northshore Regional Medical Center, Slidell, LA.
- 83) Sexual Boundaries in Adolescence, panel discussion, Community Education Program, April 5, 1990, Northshore Regional Medical Center, Slidell, LA.
- 84) Carbon Monoxide Poisoning and Hyperbaric Oxygen Therapy, Presentation at Northshore Regional Medical Center staff meeting, March, 1990, Slidell, LA.
- 85) AIDS Update 1990, Community Education Series, March 1, 1990, Northshore Regional Medical Center, Slidell, LA.
- 86) Diabetes Mellitus and Hyperbaric Oxygen Therapy, Community Education Series, January 31, 1990, Northshore Regional Medical Center, Slidell, LA.
- 87) Hyperbaric Oxygen Therapy: A Review, presentation to Highland Park Hospital Medical Staff Meeting, January, 1988, Covington, LA.

#### SOCIETIES AND MEMBERSHIPS

- 1) American College of Hyperbaric Medicine; Elected Fellow in October 1997.
- 2) World Federation of Neurology Research Group on Space and Underwater Neurology, 1993 - present.
- 3) International Hyperbaric Medical Association (IHMA), President, 2001 - 2004
- 4) Undersea and Hyperbaric Medical Society, 1992 - 1997
- 5) Louisiana Chapter, American Medical Association
- 6) Orleans Parish Medical Society



- 7) Louisiana State Medical Society
- 8) American Association of Physician Specialists

#### RESEARCH GRANTS AND AWARDS

- 1) March, 1993. Grant of new \$650,000 Siemens multiSPECT gamma camera for use in SPECT brain imaging research.
- 2) April, 1993. Edgar Foid Memorial Award for excellence in research, Neurological Applications of Hyperbaric Oxygen Therapy.
- 3) August, 1993. A \$2,500 equivalent grant from Amersham/Medi-Physics for SPECT brain imaging of neurologically normal controls.
- 4) December, 1995. \$25,000 grant from Louis Ross, Sr. for brain injury research.
- 5) April, 1997. \$7,500 equivalent grant from Dupont Pharma Radiopharmaceuticals for 25 doses of NeuroLite to use in SPECT brain imaging study of  $N_2O_4$  exposed and non-exposed individuals
- 6) September, 1997. \$50,000 grant from Louis Ross, Sr. for brain injury research.
- 7) November, 1997. Unrestricted grant in the amount of \$3,000 for Scientific and Educational Activities from Dupont Pharma Radiopharmaceuticals.

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