

Tom S. Neuman, M.D., FACP, FACPM, FUHM
579 Amphitheater Drive
Del Mar, California 92014
619-755-0795

November 30, 2014

Mr. Alton Hall
Delise and Hall
516 W 21st Ave
Covington, Louisiana 70433

Dear Mr. Hall,

I have received the material you forwarded to me for review concerning the death of David Tuvell. I am now providing you with my written opinions in this case. Specifically you asked me to address the possible role asthma may have played in the death of David Tuvell.

The documents I received for review thus far are:

1. Death Certificate
2. Dep't of Natural Resources Parks and Recreation Officer Report
3. Medical Examiner Report of Investigation and Equipment Inspection
4. BSA Health and Medical Records
5. Anthem Hill Pediatrics medical records
6. Records from Rich County Ambulance Service
7. Records from Logan Regional Hospital
8. Richard Driesbeke's notes and drawings
9. Rich County Sheriff's Office LAW Incident Table
10. Plaintiff's memorandum dated Oct. 2012
11. Amended Answer to complaint filed 7/3/13
12. Blue Water Defendants' Answer filed 5/12/14
13. Amended third party complaint filed 9/23/13
14. Defendant Blue Water Scuba's Answers dated 4/11/14
15. Defendant Lowell Huber's Answers dated 4/11/14
16. Defendant Corbett Douglas' Answers dated 4/11/14
17. Autopsy photographs
18. Deposition transcript of Corbett Douglas (I and II)
19. Deposition transcript of Lowell Huber
20. Deposition transcript of Richard Driesbeke
21. Deposition transcript of Wendell Nope
22. Deposition transcript of Dale Stacey

I believe I have the necessary knowledge, experience and training to offer these opinions. Numerous federal and state courts have admitted me as a medical expert in the fields of diving medicine, pulmonary medicine, and emergency medicine. I have written and published peer reviewed articles in textbooks of diving medicine and given invited lectures on the subject of "fitness to dive" and the medical criteria utilized to determine whether commercial and recreational divers are medically fit to dive. Specifically I am one of the leading authorities in

the country on diving medicine and have been recognized as such by my peers. I was President of the Undersea and Hyperbaric Medical Society and have been the recipient of every major named award of that society.

Furthermore, I am familiar with the investigation of diving accidents. As a member of the San Diego County Coroner's Committee to investigate diving fatalities as well as my work in diving medicine, I participated in the investigation of the deaths of numerous divers. I am the co-author of a text on dive accident investigation and analysis and I am the co-editor of one of the most widely used textbooks in the world on diving medicine (*The Physiology and Medicine of Diving*). In addition I am the author of numerous peer-reviewed articles in medical journals regarding diving medicine and published what I believe is the first study on asthma and diving in the United States. Finally I am currently serving as an active committee member that assists the National Oceanic and Atmospheric Administration (NOAA) on issues related to fitness to dive. For further details of my career and a list of all my publications my C.V. is attached. I have also attached a list of all cases in which I have provided testimony for the last 4 years.

I am familiar with the relevant facts of the subject incident involving the death of David Tuvell and the process through which he was cleared to dive.

The basic facts as I understand them are:

1. David Tuvell was cleared to dive as found on the BSA Health and Medical Records
2. The record indicates David was using Albuterol "prn" (as needed) for "asthma/wheezing"
3. On 7/13/2011 Mr. Corbett Douglas was escorting David Tuvell, Mathew Perry and Michael Perry on a Discover Scuba Diving course.
4. Because Michael Perry was surfacing, Mr. Corbett indicated to Mathew Perry and David Tuvell to remain where they were as he escorted Michael Perry to the surface.
5. When Mr. Douglas returned to the spot where he believed the boys were located he could not find them.
6. Ultimately Mr. Douglas found Matthew Perry but he did not find David Tuvell.
7. A search that had been initiated resulted in Mr. Don Jones finding David Tuvell, however until his gear was removed, Mr. Jones was unable to bring David Tuvell to the surface.
8. An autopsy revealed the cause of death to be drowning and no mention was made of findings compatible with an arterial gas embolism.

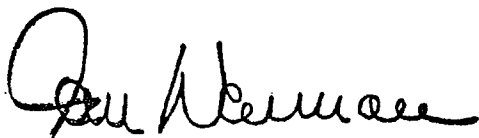
Before addressing the issue of whether asthma may have caused or contributed to David Tuvell's death, it is first necessary to address the issue of whether in fact David Tuvell even had asthma. In reviewing his medical records from Anthem Hill Pediatrics, I see no record of him having an established diagnosis of asthma. Although he had been given medications that are commonly used for the treatment of asthma, these very same medications are used for the treatment of allergies and for the treatment of symptoms due to upper respiratory infections such as viral syndromes and bronchitis. Even should an individual demonstrate occasional wheezing, this does not establish a diagnosis of asthma. Decreased airway function (and wheezing) is not uncommon in the setting of acute viral infections. Indeed it is inappropriate to obtain diagnostic pulmonary function testing (for baseline purposes) until weeks to months following viral infections because airway function will routinely be abnormal for prolonged

periods following such infections. Furthermore in all of the material I reviewed, David Tuvell's chest and lung examinations and his medical records only on one occasion indicated wheezing in spite of the fact that a number of his visits to Anthem Hill were for the type of respiratory infections that commonly trigger asthma attacks. Finally in all his records, I do not see a single visit with a primary complaint being listed as wheezing nor any complaints of wheezing after exercise, nor for that matter his exercise capability being limited by wheezing. Thus without further information I believe the entire question of asthma in this case is spurious.

However if one assumes for the purpose of this analysis that David Tuvell did have asthma, it would have been mild intermittent asthma. Although asthma had been considered for many years a contraindication to diving, this was based upon the assumption that since asthma was a disease characterized by airflow obstruction, it would predispose to arterial gas embolism. Although such a theory may be attractive, analysis of the statistics of diving accidents reveals asthmatics are not over represented in diving fatalities. Furthermore multiple studies demonstrate asthmatics are diving in approximately the percentage in which they are represented in the general population. Thus although asthmatics dive, they do not appear to have a higher fatal accident rate than non-asthmatics. Additionally the prohibition that used to exist in the United States is by no means universal throughout the world. In Great Britain certain asthmatics have always been cleared to dive. The discrepancy between "armchair physiology" and reality was addressed definitively in a workshop that took place almost 20 years ago dealing solely with the question of which asthmatics should be cleared to dive. It was agreed upon by consensus at that meeting (at which I presented the case for asthmatics being allowed to dive) of the leading experts in the world of diving medicine, that appropriately selected asthmatics should be allowed to dive. Since then asthma has not been considered an absolute contraindication to dive and the only asthmatic individuals who still are proscribed from diving are those whose disease cannot be controlled by an appropriate medical regimen. Clearly there was no difficulty managing David Tuvell's asthma (if he even had asthma) and equally clearly had he been evaluated he would have (to a reasonable degree of medical certainty) been cleared for diving activities. Therefore it is my opinion, to a reasonable degree of medical certainty that David Tuvell was medically fit to dive and it is my opinion to a reasonable degree of medical certainty asthma was not the cause or a contributing factor in the death of David Tuvell.

I must however remind you opinions are always based upon the facts at one's disposal. I understand the depositions of Dr. Kim Lamotte-Malone and Mr. Brian Shrawder (PA) have been recently taken. Additionally I believe the depositions of Mr. Michael Perry and his son Matthew Perry have also been taken. When I have the opportunity to review these documents, it may require that I amend or revise my opinions in this case.

Very truly yours,



Tom S. Neuman, M.D., FACP, FACPM, FUHM
Emeritus Professor of Medicine

University of California, San Diego

TOM S. NEUMAN, M.D., FACP, FACPM, FUHM

Home Address:

579 Amphitheatre Drive
Del Mar, CA 92014
Phone: (858) 755-0795

Office Address:

Department of Emergency Medicine
UCSD Medical Center
200 W. Arbor Drive
San Diego, CA 92103-8676
E-mail: tneuman@ucsd.edu

Personal:

Born July 23, 1946 in New York City, New York
Family Data: Married to former Doris L. Rubin, B.S.
(Long Island University), M.S. (Brooklyn College)
Daughter: Allison Rachel Neuman, born 6-22-80
Son: Russell Solomon Neuman, born 9-12-86

Education:

Academic: 1963-67	A.B., Cornell University Ithaca, New York
Medical School: 1967-71	M.D., New York University School of Medicine New York, New York
Internship: 1971-72	Straight Medical Internship Bellevue Hospital, New York, New York
Residency: 1972-73	Internal Medicine Residency Bellevue Hospital, New York, New York
Fellowship: 1976-78	Pulmonary Medicine and Physiology University of California, San Diego Medical Center University and Affiliated Hospitals

Board Recognition:

1972	Diplomate, National Board of Medical Examiners, Certified
1977	American Board of Internal Medicine - Certified in Internal Medicine
1978	American Board of Internal Medicine - Certified in Pulmonary Disease
1980	American Board of Preventive Medicine - Certified in Occupational Medicine
1986	American Board of Emergency Medicine - Certified in Emergency Medicine, (Recertified 1996 and 2006)

Board Recognition (continued):

2000 American Board of Preventive Medicine - Certified in Undersea and Hyperbaric Medicine (Recertified 2010)

Awards and Scholarships:

1964-67 Regents Scholarship, Cornell University

1967-71 Admissions Scholarship, New York University School of Medicine

1969 Lang Award, (Outstanding Student)

2002 Undersea and Hyperbaric Medical Society Distinguished Service Award

2004 Merrill P. Spencer Award for Lifetime Achievement, Undersea and Hyperbaric Medicine Society (North Pacific Chapter)

2006 The Craig Hoffman Memorial Award for contributions to diving safety, Undersea and Hyperbaric Medicine Society

2007 The Albert R. Behnke Award for Outstanding Scientific Contributions to Advances in the Undersea or Hyperbaric Biomedical Field, Undersea and Hyperbaric Medicine Society

2008 The Boerema Award for exceptional contributions to the field of Hyperbaric Medicine

National Honors:

1983-84 Vice President, Undersea Medical Society

1985-90 Secretary, American College of Undersea and Hyperbaric Medicine

1989-90 President, Undersea and Hyperbaric Medical Society

1985-96 Board of Governors, American College of Undersea and Hyperbaric Medicine

1990-96 President, American College of Undersea and Hyperbaric Medicine

2003-06 Consumer's Research Council of America, Listed in "Guide to America's Top Physicians" (3,000 from all 50 states & Puerto Rico) Publication, 2003, 2004-2005, 2006 Editions.

1997-06 Included in Marquis' "Who's Who in American Education", 1993-2006, "Who's Who in America", 1994-2006 and "Who's Who in Medicine & Healthcare", 1997-2006

National Honors (continued):

2011 Divers Alert Network/Rolex Diver of the Year

Appointments:

2006-present Professor of Clinical Medicine, Emeritus

2006-present Representative of the American Board of Preventive Medicine for the Specialty Examination of Undersea and Hyperbaric Medicine

2011- Present Research Director, Division of Hyperbaric Medicine, Department of Emergency Medicine, UCSD

Previous Experience:

2001-2008 National Academy of Sciences, Institute of Medicine, Standing Committee on Aerospace Medicine and the Medicine of Extreme Environments (CAMMEE), which supports the Institute of Medicine (IOM) Health Sciences Policy Board

2006-2007 IOM Committee to Review NASA's Space Flight Health Standards

2000-2006 Liaison from the American Board of Emergency Medicine to the American Board of Preventive Medicine for the Specialty Examination of Undersea and Hyperbaric Medicine

1984-2006 Director, Hyperbaric Medicine Center, UCSD Medical Center

1984-2006 Base Hospital Physician, UCSD Medical Center

1990-2006 Adjunct Professor of Surgery, UCSD School of Medicine

1994-2006 Associate Director, Department of Emergency Medicine, UCSD Medical Center

1996-2006 Professor of Clinical Medicine, University of California, San Diego (UCSD) School of Medicine

2005 National Research Council Subcommittee on NASA's Human Health and Support Systems (Panel D)

2002-2005 Member, Bioastronautics Critical Path Roadmap (BCPR) Committee on reducing and managing risks to crew health, safety, and performance during, and following, all human space flight missions

2002-2004 National Academy of Sciences, Institute of Medicine, Committee on the Longitudinal Study of Astronaut Health (LSAH).

Previous Experience (continued):

1999-2001	National Academy of Sciences, Institute of Medicine, Committee on Creating a Vision of Space Medicine Beyond Earth Orbit; the Colonization of the Moon and the Mars Expedition.
1990-96	Adjunct Professor of Medicine, UCSD School of Medicine
1987-90	Associate Adjunct Professor of Medicine and Surgery, UCSD School of Medicine
1984-87	Associate Clinical Professor of Medicine and Surgery, UCSD School of Medicine
1982-85	Member, Medical Advisory Board of the Western Regional Underwater Laboratory Program, University of Southern California Marine Science Center, Catalina, CA
1980-98	Attending Physician, Pulmonary Division (Clinical Consultation and Pulmonary Function Testing Laboratory), UCSD Medical Center
1980-84	Assistant Director, Department of Emergency Medicine, UCSD Medical Center
1980-86	Flight Physician, Life Flight Air Medical Program, UCSD Medical Center
1980-84	Assistant Clinical Professor of Medicine, UCSD School of Medicine
1978-80	Clinical Instructor, UCSD School of Medicine
1976-78	Attending Physician, Veterans Administration Medical Center, La Jolla, California
1975-80	Emergency Room Physician, Chula Vista Community Hospital, Chula Vista, California
1972-73	Teaching Assistant, New York University School of Medicine

Governmental Appointments:

Member, San Diego Coroner's Committee for Investigation of Diving Fatalities, 1974-present

Medical Diving Consultant, Vocational Diver Training Facility, California Institution for Men, Chino, California, 1987-92

Member, City Manager's Task Force on Carbon Monoxide Poisoning, San Diego, California, 1991-1992

NASA Consultant, 2000- present

Occupational/ Diving Education and Experience:

Naval School of Submarine Medicine, New London, CT, 1973

Naval School of Diving and Salvage, Washington, DC, 1973

Naval Nuclear Power Training Unit, West Milton, NY, 1973

Naval School of Deep Diving Systems, San Diego, CA, 1974

Naval Submarine Medical Officer; Qualified 1974

Naval Undersea Medical Officer; Qualified 1975

Naval Saturation Qualified Medical Officer, 1975

CMAS (Confederation Mondiale des Activities Subaquatiques)

Instructor Second Degree, 1978 -1982

PADI Scuba Instructor Emeritus

Military Experience:

7/73 - 12/73 Submarine Medical Officer Candidate

12/73 - 6/74 Instructor, Naval Undersea Medical Institute, New London, Connecticut

6/74 - 6/76 & Staff Medical Officer, Submarine Development Group One,
 7/78 - 6/80 San Diego, California

7/80 - 8/84 Medical Officer, UDT/SEAL Reserve Unit 119, San Diego, California

9/84 - 8/86 Medical Officer, Mobile Diving and Salvage Unit One, U.S. Naval Reserves,
 San Diego, California

9/86 - 12/87 Senior Medical Officer, Seal Teams 1/3/5, U.S. Naval Reserves,
 Coronado, California

1/88 - 9/90 Medical Officer, PRIMUS Unit 1942-A, University of California,
 San Diego School of Medicine

10/90 - 1/95 Assistant Officer in Charge, Medical Unit 1942-A, University of California,
 San Diego School of Medicine

2/95 - 4/96 Medical Officer, PRIMUS Unit 1942-A, University of California,
 San Diego School of Medicine

4/96 - Present Member of Fleet Reserve (Rank of Captain)

Licensure:

California Medical License Number G-27796, 1974-present

Certification:

Cardiopulmonary Resuscitation Provider, 1980-present

Advanced Trauma Life Support Instructor, 1980-85

Advanced Trauma Life Support Provider, 1985-2001

Advanced Cardiac Life Support Instructor, 1981-97

Advanced Cardiac Life Support Provider, 1997-2007

Miscellaneous:

Advanced Cardiac Life Support Affiliate Faculty, 1982-93

Editorial Board, Undersea & Hyperbaric Medicine, 1993-95

Editor-in-Chief, Undersea & Hyperbaric Medicine, 1995-2002

Reviewer, for: Undersea and Hyperbaric Medicine, Journal of Applied Physiology, Physics in Medicine, Chest, Annals of Emergency Medicine, Journal of Emergency Medicine, Journal of Applied Physiology, Aviation, Space and Environmental Medicine, and Cochrane Reviews

Inaugural and Elected Member, Academy of Clinician Scholars, UCSD School of Medicine, 2002-2006 (Emeritus Member 2006-present)

Current Professional Society and Committee Memberships:

Fellow, American College of Physicians

Fellow, American College of Preventive Medicine

Fellow, Undersea and Hyperbaric Medicine

Undersea and Hyperbaric Medical Society

North Pacific Chapter, Undersea and Hyperbaric Medical Society

Professional Association of Diving Instructors (Emeritus)

South Pacific Undersea Medical Society

Current Professional Society and Committee Memberships (continued)

American Board of Preventive Medicine, Undersea and Hyperbaric Medicine Board
Examination Committee

Member, Safety Review Board, University of Southern California Marine Science Center,
Catalina Hyperbaric Chamber

Member, Diving Medical Review Board, NOAA

Member, Data Safety Monitoring Board (DSMB) for the clinical trial titled: "Hyperbaric
Oxygen applied later after mild to moderate traumatic brain injury: A prospective
multicenter double blind randomized controlled trial," Defense Centers of Excellence
(DCoE) for PH and TBI

Member, Data Safety Monitoring Board (DSMB) for the experimental project Decompression
Sickness (DCS) to evaluate decompression sickness protocols and safety to report to NASA

Previous Activities:

Pharmacy and Therapeutics Committee, UCSD Medical Center, 1980-82, 1988-92

Environmental Health Task Force, San Diego County Lung Association, 1981-82

Program Committee, Undersea Medical Society, 1981-82

Employee Health Services Committee, UCSD Medical Center, 1981-90

Nominations Committee, Undersea Medical Society, 1982-83

Education Committee, Undersea Medical Society, 1982-87

Awards Committee (Chairman), Undersea Medical Society, 1983-84

Executive Committee (Vice-President), Undersea Medical Society, 1983-84

Recruitment and Admissions Committee, UCSD School of Medicine, 1983-84

Credentials Committee (Co-Chairman), Undersea Medical Society, 1984-85

Medical Ethics Committee, UCSD School of Medicine, 1986-88

Core Curriculum Committee, UCSD School of Medicine, 1986-88

Nominations Committee (Chairman), Undersea and Hyperbaric Medical Society, 1988-89

Executive Committee, Undersea Medical Society, 1988-92

Previous Activities (continued):

Liaison, American College of Emergency Medicine/American College of Undersea and Hyperbaric Medicine, 1988-94

Fellow, American College of Emergency Medicine, 1991-94

Chairman, Emergency Medicine Physician Quality Improvement Committee, 1992-94

Patient Care Review Committee, UCSD Medical Center, 1992-94

American National Standards Institute Committee for Minimal Course Content for Recreational Scuba Instructor Certification, 1992-99

American Diabetes Association Committee on Exercise; Subcommittee on Scuba Diving and Diabetes, 1994-96

Board of Advisors, Grauer School, 2000-01

University of California San Diego, Academy of Clinician Scholars, Membership Committee 2002-2004

Department of Medicine Committee on Appointments and Promotions, UCSD School of Medicine (DOMCAP), 1997-2001, 2004-2005

Publications:

Original Research and Case Series:

1. Neuman TS: Submarine escape training in the U.S. Navy: A re-evaluation. Naval Undersea Medical Institute, 1974.
2. Neuman TS, Settle H, Beaver G, Linaweaver P: Maxillary sinus barotrauma with cranial nerve involvement. Aviat Space Environ Med 1975;46(3):314-315.
3. Neuman TS, Hall D, Linaweaver PG: Gas phase separation during decompression in man: Ultrasound monitoring. Undersea Biomed Res 1976;3(2):121-130.
4. Neuman TS, Harris M, Linaweaver PG: Blood viscosity in man following decompression: Correlations with hematocrit and venous gas emboli. Aviat Space Environ Med 1976;47:803-807.
5. Goad RF, Neuman TS, Linaweaver PG: Hematologic changes in man during decompression: Relations to overt decompression sickness and bubble scores. Aviat Space Environ Med 1976;47(8):863-867.
6. D'Aoust BG, Smith KH, Swanson HT, Harvey CA, Hunter WL, Neuman TS, Goad RF: Venous gas bubbles: Production by transient deep isobaric counter diffusion of helium against nitrogen. Science 1977;197:889-891.
7. Biersner R, Hall D, Neuman T, Linaweaver P: Learning rate equivalency of two narcotic gases. J Appl Psychol 1977;62(6):747-750.
8. Bierner R, Hall D, Linaweaver P, Neuman T: Diving experience and emotional factors related to psychomotor effects of nitrogen narcosis. Aviat Space Environ Med 1978;49(8):959.
9. Neuman TS, Goad RF, Hall D, Smith R, Claybaugh J, Hong S: Urinary excretion of water and electrolytes during open sea saturation diving to 850 FSW. Undersea Biomed Res 1979;6(3): 291-302.
10. Neuman TS, Spragg RG, Wagner PD, Moser KM: Cardiopulmonary consequences of decompression stress. Respir Physiol 1980;41:143-153.
11. Neuman TS, Bockman MA, Moody P, Dunford JV, Griffith LD, Guber SL, Guss DA, Baxt WG: An autopsy study of traumatic deaths: San Diego County - 1979. Am J Surg 1982;144(6): 722-727.
12. Guidotti TL, Cortez JH, Abraham HL, Hughson W, Krems AD, Neuman TS, Bryson AL, Heramb BI: Taking the occupational history. Ann Intern Med 1983;99(5):641-651.
13. Guss DA, Dunford JV, Griffith LD, Neuman TS, Baxt WG, Winger B, Guber SL: Clean-catch versus straight-catheter urinalysis results in women. Am J Emerg Med 1985; 3(4):369-371.

Original Research and Case Series (continued):

14. Manoguerra AS, Neuman TS: Fatal acute poisoning from hydrofluoric acid ingestion. *Am J Emerg Med* 1986;4(4):362-363.
15. Neuman TS, Hallenbeck JM: Barotraumatic cerebral air embolism and the mental status examination: A report of four cases. *Ann Emerg Med* 1987;16(2):220-223.
16. Guss DA, Meyer FT, Neuman TS, Baxt WG, Dunford JV, Griffith LD, Guber SL: The impact of a regionalized trauma system on trauma care in San Diego County. *Ann Emerg Med* 1989; 18(11):1141-1145.
17. Gadd MA, McClellan DS, Neuman TS, Hansbrough JF: Effect of hyperbaric oxygen on murine neutrophil and T-lymphocyte functions. *Crit Care Med* 1990;18(9):974-979.
18. Neuman TS, Bove AA: Combined arterial gas embolism and decompression sickness following no-stop dives. *Undersea Biomed Res* 1990;17(5):429-436.
19. Harker CP, Neuman TS, Olson LK, Jacoby I, Santos A: The roengenographic findings associated with air embolism in sport scuba divers. *J Emerg Med* 1993;11(4):443-449.
20. Smith RM, Neuman TS: Elevation of serum creatine kinase in divers with arterial gas embolization. *New Engl J Med* 1994;330(1):19-24.
21. Smith RM, Van Hoesen KB, Neuman TS: Arterial gas embolism and hemoconcentration. *J Emerg Med* 1994;12(2):147-153.
22. Hebel GA, Hutton K, Kanowitz A, Neuman TS, Martinson L, Rosen P: The accuracy of ST segment deviation in prehospital cardiac monitoring. *J Emerg Med* 1994;12(2):207-211.
23. Tenenhaus M, Hansbrough JF, Zapata-Sirvent R, Neuman TS: Treatment of burned mice with hyperbaric oxygen reduces mesenteric bacteria but not pulmonary neutrophil deposition. *Arch Surg* 1994;129:1338-1342.
24. Smith RM, Neuman TS: Abnormal serum biochemistries in association with arterial gas embolism. *J Emerg Med* 1997;15(3):285-289.
25. Kimbro TM, Tom TW, Neuman TS: A case of spinal cord DCS presenting as Brown-Sequard syndrome. *Neurology* May 1997; 48:1454-1456.
26. Chan TC, Vilke GM, Neuman TS, Clausen JL: Custody restraint position and positional asphyxia. *Ann Emerg Med* 1997;30(5):578-586.
27. Neuman TS, Jacoby I, Bove AA: Fatal pulmonary barotrauma due to obstruction of the central circulation with air. *J Emerg Med* 1998;16(3):413-417.
28. Vilke GM, Chan TC, Neuman T, Clausen JL: Spirometry in normal subjects in sitting, prone, and supine positions. *Respir Care* 2000;45(4):407-410.

Original Research and Case Series (continued):

29. Chan TC, Vilke GM, Clausen J, Clark R, Schmidt P, Snowden T, Neuman T: The impact of oleoresin capsicum spray on respiratory function in human subjects in the sitting and prone maximal restraint positions, final report. NCJ 182433. Washington, DC: United States Department of Justice, National Institute of Justice, 2000, 68 pages.
30. Chan TC, Vilke GM, Clausen J, Clark R, Schmidt P, Snowden T, Neuman T: Pepper spray's effects on a suspect's ability to breathe. Research in Brief (NCJ 188069), December 2001. Washington, DC: United States Department of Justice, National Institute of Justice.
31. Chan TC, Vilke GM, Clausen J, Clark RF, Schmidt P, Snowden T, Neuman T: The effect of oleoresin capsicum "pepper" spray inhalation on respiratory function. J Forensic Sci 2002; 47(2):28-33.
32. Chan TC, Neuman TS, Clausen J, Eisele J, Vilke GM: Weight force during prone restraint and respiratory function. Am J Forensic Med Pathol 2004; 25:185-189.
33. Michalewicz, B.A., Chan T, Vilke G, Levy S, Neuman T, and Kolkhorst F. Ventilatory and metabolic demands during aggressive physical restraint in healthy adults. J of For Sci, 2007: 51 (1) 1-5
34. Grover IR, Reed W, Neuman T. Validation of the SANDHOG Criteria for the Diagnosis of DCS and AGE. Undersea and Hyperbaric Medicine 2007: 34(3) 199-210.
35. Vilke GM, Sloane, C, Bouton KD, Kolkhorst FW, Levine S, Neuman TS, Castillo EM, Chan TC: Physiological Effects of the TASER X-26 on Human Subjects, Annals of Emerg Med. 2007;50(5):569-575.
36. Vilke GM, Sloane C, Levine S, Neuman T, Castillo E Chan TC: Twelve Lead ECG Monitoring of Subjects Before and After Voluntary Exposure to the Taser X-26. Am J Emerg Med 2008; 26(1) 1-4.
37. Sloane C, Chan T, Levine S, Dunford J, Neuman T, Vilke G, Serum Troponin I Measurement of Subjects Exposed to the Taser X-26®, Journal of Emergency Medicine, 2008;35(1):29-32
38. Vilke GM, Sloane CM, Suffecool A, Kolkhorst FW, Neuman TS, Castillo EM, Chan TC. Physiologic Effects of the TASER After Exercise. Acad Emerg Med. 2009;16:704-710
39. Moore G, Wong SC, Darquenne C, Neuman TS, West JB, Prisk K. Ventilation-perfusion inequality in the human lung is not increased following no decompression-stop hyperbaric exposure. Eur J Appl Physiol 2009;107:545-552
40. Vilke GM, Sloane C, Castillo EM, Kolkhorst FW, Neuman TS, Chan TC. Evaluation of the Ventilatory Effects of a Restraint Chair on Human Subjects. J Emerg Med. 2011;40(6):714-8
41. Witucki P, Ducknick J, Neuman T, Grover I. Incidence of DCS and oxygen toxicity in chamber attendants: A 28 Year Experience. Undsea Hyp Med 2013;40 (4); 347-52

Original Research and Case Series (continued):

42. Sadler C, Nelson C, Neuman T, Grover I, Witucki P, Dilemma of Natural Death while Scuba Diving. Acad Forensic Pathol 2013; 3 (2): 202-12
43. Savaser DJ, Campbell C, Castillo E, Vilke G, Sloan C, Neuman T, Hansen A, Shah V, Chan T. The effect of the prone maximal restraint position with and without weight force on cardiac output and other hemodynamic measures. J For Legal Med 2013; 20(8):991-5.
44. Sloan CM, Chan T, Kolkhorst F, Neuman, T, Castillo E, Vilke G. Evaluation of the ventilatory effects of the prone maximum restraint (PMR) position on obese human subjects For. Sci. Intl. 2014;237: 86-9

Review Articles:

1. Neuman TS: Diving medicine. Clinics in Sports Medicine 1987; 6(3):647-661.
2. Guss DA, Neuman TS: Carbon monoxide poisoning: How to detect - and what to do. J Respir Dis 1990; 11(9):773-786.
3. Kizer KW, Neuman TS: Meeting the challenge of scuba diving emergencies: Recognition, resuscitation, and recompression. Emergency Medicine Reports 1991;12(17):151-160.
4. Simmons CW, Neuman TS: Near-drowning: What to look for, how to treat. J Respir Dis 1992;13(8):1084-1094.
5. Neuman TS: Dysbaric emergencies in scuba divers. Portion of article titled "Hook, fin, scuba, skin: Aquatic emergencies." Patient Care 1994;28(13):79-86.
6. Goad RF, Neuman TS: Decompression sickness: State of the art 1977. Marine Technology Society Journal 1977;11(4):8-12.
7. Neuman TS, Bove AA, O'Connor RD, Kelsen SG: Asthma and diving. Annals of Allergy 1994;73:344-350.
8. Van Hoesen KB, Neuman TS: Asthma and diving. Immunol Allergy Clinics of N Am 1996;16(4):917-928.
9. Chan TC, Vilke G, Neuman T: Reexamination of custody restraint position and positional asphyxia. Am J Forensic Med Pathol 1998;19(3):201-205.
10. Neuman TS: Arterial gas embolism and decompression sickness. News Physiol Sci 2002; 17:77-81.
11. Mitchell SJ, Bennett M, Bird N, Doolette D, Hobbs G, Kay E, Moon R, Neuman T, Vann R, Walker R, Wyatt H. Recommendations for rescue of a submerged unresponsive compressed gas diver Undersea Hyperb Med 2012; 39(6): 1099-108

Letters to the Editor and Editorials:

1. Neuman TS: DCI/DCS Does it Matter Whether the Emperor Wears Clothes? (Editorial). Undersea Hyperb Med 1997; 24(1); 4-5
2. Howard JD, Reay DT [32(1):116-117] / Chan TC, Vilke GM, Neuman T, Clausen J: Positional asphyxia (Reply to letter to the editor). Ann Emerg Med 1998;32(1):117-118.
3. Neuman TS, Clausen JL: Recommend caution in defining risk factors for barotrauma in divers (Letter to the editor). Chest 1998;114(6):1791-1792.
4. Chan TC, Neuman T, Vilke GM, Clausen J, Clark RF: Metabolic acidosis in restraint-associated cardiac arrest (Letter to the editor). Acad Emerg Med 1999;6(10):1075-1076.
5. Reay DT, Howard JD [20(3):300-301] / Chan TC, Vilke GM, Neuman T: Restraint position and positional asphyxia (Reply to letter to the editor). Am J Forensic Med Pathol 2000; 21(1):93.
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10. Dysbaric Osteonecrosis, Pulmonary Decompression Illness, Long Term Effects of Diving - Fitness to Dive Symposium, Cozumel, Mexico; June 17-18, 1997.

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12. The Clinical Features of Pulmonary Barotrauma; Other Targets for Embolic Bubble Injury - Pre-meeting Workshop, Undersea and Hyperbaric Medical Society Meeting, Boston, Massachusetts; June 1999.
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26. Hyperbaric Oxygen Therapy in Traumatic Brain injury Consensus Conference, Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury, Alexandria Virginia, Dec 5-6, 2008
27. Best Practice Guidelines for Prevention and Effective Treatment of Decompression Illness Proceedings: Part 2, DCS-AGE Workshop, Sept 1, 2010
28. Moderator Afternoon Session. Medical Examination of Diving Fatalities Symposium, Undersea and Hyperbaric Medical Society, June 18, 2014, St. Louis Missouri

Presentations and Speaking Engagements:

1. Saturation Diving Systems – North Pacific Chapter, Undersea Medical Society, Santa Catalina, California; October 1974.
2. Physiologic Problems of Deep Diving – Western Industrial Health Conference, San Diego, California; October 1975.
3. Changes in Hematological and Hemorrheological Parameters Following Dives to 210 FSW and 132 FSW and Their Correlation with Bubble Score – Undersea Medical Society, Miami Beach, Florida; May 1976.
4. Drowning and Near Drowning – Aquatic Emergencies Seminar, County of San Diego Department of Public Health; August 1976.
5. Decompression Sickness – Grand Rounds, UCSD Medical Center; December 1976.
6. Emergency Treatment of Near Drowning and Diving Accidents – Postgraduate Institute for Emergency Physicians, Symposium III, UCSD Office of Continuing Education; August 1976, January 10-14, 1977, July 11-15, 1977, October 28, 1977, April 9, 1978, August 11, 1978, November 4, 1978, February 9, 1979.
7. Cardiopulmonary Complications Associated with Decompression – San Diego Division of the California Society of Cardiopulmonary Technologists; April 20, 1978.
8. The Effect of Decompression and Asymptomatic Venous Gas Emboli on Pulmonary Gas Exchange - Undersea Medical Society, Seattle, Washington; April-May 1978.
9. Cardiopulmonary Consequences of Decompression Stress – American Thoracic Society, Boston, Massachusetts; May 1978.
10. Physiologic Problem of Diving in Man – Physiologic Research Laboratory, Scripps Institute of Oceanography, La Jolla, California; May 30, 1978.
11. Drowning: Thermal Problems and the Effects of Increased Partial Pressure of Atmospheric Gases – American Occupational Health Association, Anaheim, California; April 30, 1979.
12. The Relationship Between Heart Rate and Aerobic Capacity in Individuals Engaged in Underwater Activities – Undersea Medical Society, Key Biscayne, Florida; May 1979.
13. Treatment of Decompression Sickness – Israeli Oceanographic Institute, Haifa, Israel; September 3, 1979.
14. Deep Ocean Diving, May 16, 1980 – Respiratory Manifestations of DCS, April 10, 1981; Topics in Respiration (Man and His Environment) with John B. West, M.D., UCSD School of Medicine, La Jolla, California.

Presentations and Speaking Engagements (continued):

15. Physiology of Decompression Sickness – Grand Rounds, UCSD Medical Center; March 11, 1981.
16. Platelets Aggregates Following Decompression – Undersea Medical Society, Monterey, California; May 26-29, 1981.
17. Recognition and Management of Diving Casualties – Course Director (25 CME credits), UCSD School of Medicine, La Jolla, California; March 1981, October 1981, September 1982, October 1983.
18. An Autopsy Study of Traumatic Deaths: San Diego County, 1979 – Southwestern Surgical Congress, 34th Annual Meeting, San Diego, California; April 29, 1982.
19. Pathophysiology of Drowning – Kaiser Permanente Medical Group of Northern California, South San Francisco, California; July 13, 1983.
20. Neurologic Sequelae in Selected Cases of Scuba-related Injury – Neurology Grand Rounds, UCSD Medical Center; August 19, 1983.
21. Diving Medicine in Depth – Selected Topics: Emergency Medicine – Course Lecturer, Human Underwater Biology, Bonaire, Netherlands Antilles; April 14-22, 1984.
22. Current Indications for Hyperbaric Oxygen Therapy – Fallbrook Hospital, Fallbrook, California; May 17, 1984.
23. Diving Medicine – Annual Meeting of the American College of Sports Medicine, San Diego, California; May 23, 1984.
24. Intermittent Hyperbaric Oxygen Therapy for the Treatment of Barotraumatic Cerebral Air Embolism – Undersea Medical Society, San Antonio, Texas; May 29-June 2, 1984.
25. Marine and Aquatic Sports Medicine – Course Lecturer, University of California, Davis, Monterey, California; June 24-27, 1984.
26. Hyperbaric Medicine – Fact and Fiction – Pomerado Hospital, San Diego, California; August 10, 1984.
27. Hyperbaric Oxygen Therapy – Villa View Community Hospital, San Diego, California; October 18, 1984.
28. Carbon Monoxide Poisoning Complicated by Near Drowning – Management and Mortality Conference, Department of Medicine, UCSD Medical Center; October 26, 1984.
29. Medicine in the Aquatic Environment – Principal Lecturer, Cairns, Australia; November 2-17, 1984.

Presentations and Speaking Engagements (continued):

30. Near Drowning – Medical Chest Conference, UCSD School of Medicine; March 21, 1985.
31. Diving Medicine in Depth – Selected Topics: Emergency Medicine – Course Lecturer, Human Underwater Biology, Bonaire, Netherlands Antilles; April 1-7, 1985.
32. Syncope at 30 Feet – A Case of Carbon Monoxide Poisoning – Management and Mortality Conference, Department of Medicine, UCSD Medical Center; May 3, 1985.
33. Diving Medicine in Depth: Introduction to Diving Medicine – Course Lecturer, Human Underwater Biology, Grand Cayman Island; July 7-13, 1985.
34. Hyperbaric Therapy: Fact and Fancy – Advances in Internal Medicine Postgraduate Course, Department of Medicine, UCSD Medical Center; September 2, 1985.
35. Arterial Gas Embolism – Management and Mortality Conference, Department of Medicine, UCSD Medical Center; January 17, 1986.
36. Hyperbaric Medicine in Current Medical Practice – Annual Meeting of the Oregon Physicians Ski Association, Sun River, Oregon; February 20, 1986.
37. Diving Medicine in Depth – Selected Topics: Special Problems – Course Lecturer, Human Underwater Biology, Bonaire, Netherlands Antilles; March 22-29, 1986.
38. Diving Safety – Presentation to the San Diego County Sheriff's Special Enforcement Detail, San Diego, California; June 11, 1986.
39. Introduction to Diving Medicine – Presentation to the Medical Department of the California Institution for Men, Chino, California; July 3, 1986.
40. Diving Medicine in Depth – Selected Topics: Special Problems – Course Lecturer, Human Underwater Biology, Grand Cayman Island; July 12-19, 1986.
41. Severe Refractory Type II Decompression Sickness Resulting from Combined "No Decompression" Dives and Pulmonary Barotrauma – Ninth International Symposium on Underwater and Hyperbaric Physiology, Kobe, Japan; September 20, 1986.
42. Symptoms and Treatment of Arterial Gas Embolism and Decompression Sickness – U.S. Coast Guard Air Station, San Diego, California; September 25, 1986.
43. Hyperbaric Oxygen Therapy and Osteoradionecrosis – Grand Rounds, Division of Head and Neck Surgery, Veterans Affairs Medical Center, La Jolla, California; January 9, 1987.
44. Drowning – Medical Chest Conference, Division of Pulmonary and Critical Care Medicine, UCSD Medical Center; January 22, 1987.

Presentations and Speaking Engagements (continued):

45. Interpretation of Arterial Blood Gases—Emergency Medicine Lecture Series, Veterans Affairs Medical Center and UCSD Medical Center; July 28 & 31, 1987.
46. Evaluation of the Patient in Respiratory Distress and the Interpretation of the Arterial Blood Gases – Family Medicine Grand Rounds, UCSD Medical Center; August 6, 1987.
47. Drowning – Sharp Rees-Stealy Medical Group, San Diego, California; September 4, 1987.
48. Hyperbaric Oxygenation: Current Status – Medical Chest Conference, Division of Pulmonary and Critical Care Medicine, UCSD Medical Center; October 22, 1987.
49. Hyperbaric Medicine – School of Medicine Associates, UCSD School of Medicine; November 18, 1987.
50. Guest Lecturer, Underwater Medicine 1988, sponsored by Temple University School of Medicine, held at Cayman Brac; January 23-29, 1988.
51. Summit to Submarine - Baromedicine from Altitude Sickness to the “Bends” and “Drowning” – California Medical Association Western Scientific Assembly, Reno, Nevada; March 5, 1988.
52. Medical Evaluation of Scuba Divers – Student Health Services, San Diego State University; April 21, 1988.
53. Clinical Hyperbaric Medicine Course – Principal Lecturer, Alvarado Medical Center, San Diego, California; April 23-24, 1988.
54. Decompression Sickness and Arterial Gas Embolism – Management and Mortality Conference, Department of Medicine, UCSD Medical Center; April 28, 1988.
55. Current Indications for Hyperbaric Oxygen Therapy – Grand Rounds, Children’s Hospital and Medical Center, San Diego, California; April 29, 1988.
56. The Prevalence of Asthma, Diabetes and Epilepsy in a Population of Divers – Undersea and Hyperbaric Medical Society, New Orleans, Louisiana; June 6-10, 1988.
57. Diving Medicine – Sports Medicine 1988: A Practical Approach to Caring for Today’s Athlete, San Diego, California; July 29, 1988.
58. Near Drowning and Diving Medicine: Case Presentations – Fourth Annual Wilderness Medicine Conference, Snowmass, Colorado; August 14-15, 1988.
59. USN Dive Tables – American Association of Underwater Scientists Workshop, USC Marine Science Center, Catalina, California; September 27, 1988.
60. Diving Accidents – Management and Mortality Conference, Department of Medicine, UCSD Medical Center; October 28, 1988.

Presentations and Speaking Engagements (continued):

61. Computer-Assisted Diving – Banquet Speaker, The Hazards of Diving in Polluted Water, University of Maryland Sea Grant, Bethesda, Maryland; December 13-16, 1988.
62. Guest Lecturer, Underwater Medicine 1989, sponsored by Temple University, held at Virgin Gorda, British Virgin Islands; January 14-21, 1989.
63. Carbon Monoxide Poisoning – Grand Rounds, Department of Medicine, UCSD Medical Center; February 15, 1989.
64. Carbon Monoxide Poisoning – Morbidity and Mortality Conference, Children's Hospital and Health Center, San Diego, California; April 18, 1989.
65. Hyperbaric Oxygen Therapy for Osteoradionecrosis of the Mandible – Advanced Oral and Maxillofacial Surgery Course, Naval Dental Clinic, San Diego, California; May 8-10, 1989.
66. Pulmonary Problems – Fit to Dive, Pre-meeting Course of the Undersea and Hyperbaric Medical Society, Honolulu, Hawaii; June 6, 1989.
67. Near Drowning and Diving Medicine – Marine Medicine 1989, UCSD Office of Continuing Medical Education, San Diego, California; July 10-14, 1989.
68. Interpretation of Arterial Blood Gases – Emergency Medicine Lecture Series, VA Medical Center and UCSD Medical Center; July 18 & 26, 1989.
69. Diving Medicine in Depth – Selected Topics: Special Problems – Course Lecturer, Human Underwater Biology, Cayman Brac; July 30-August 4, 1989.
70. Pressure Related Illness from the Sea to Summit – Fifth Annual Wilderness Medicine Conference, Snowmass, Colorado; August 13, 1989.
71. Diving Medicine – Fifth Annual Wilderness Medicine Conference, Snowmass, Colorado; August 14, 1989.
72. Asthma and Diving – Pulmonary Fitness for Diving – 1990 Joint Annual Conference of the Undersea and Hyperbaric Medical Society's Gulf Coast Chapter, the Undersea and Hyperbaric Medical Society Associates, and the Baromedical Nurses Association, Birmingham, Alabama; April 26, 1990.
73. Hyperbaric Oxygen and Head & Neck Surgery – ENT Grand Rounds, UCSD Medical Center; May 10, 1990.
74. Osteoradionecrosis and Hyperbaric Oxygen – Advanced Oral and Maxillofacial Surgery, Department of the Navy, San Diego, California; May 16, 1990.

Presentations and Speaking Engagements (continued):

75. Marine Bites and Stings – Wound Management Workshop for Nonsurgeons, UCSD Medical Center; May 18, 1990.
76. Near Drowning – Marine Medicine 1990, UCSD Office of Continuing Education, San Diego, California; July 9, 1990.
77. Diving Medicine: An Overview – Marine Medicine 1990, UCSD Office of Continuing Education, San Diego, California; July 10, 1990.
78. Where Do Standard Tables (Navy) Come From and How Safe Are They? – Marine Medicine 1990, UCSD Office of Continuing Education, San Diego, California; July 11, 1990.
79. Workshop on Advanced Diving Medicine: Decompression Tables (Moderator) – Marine Medicine 1990, UCSD Office of Continuing Education, San Diego, California; July 11, 1990.
80. Diving Medicine in Depth – Selected Topics: Fitness to Dive – Course Lecturer, Human Underwater Biology, Fiji; October 9-20, 1990.
81. Treatment of Carbon Monoxide Poisoning – Department of Emergency Medicine, Naval Hospital, San Diego, California; December 6, 1990.
82. Course Lecturer, Underwater Medicine 1991, sponsored by Temple University, held at Bonaire, Netherlands Antilles; January 13-18, 1991.
83. Carbon Monoxide Poisoning – Management and Mortality Conference, Department of Medicine, UCSD Medical Center; March 1, 1991.
84. Diving Accidents – Ambulatory Care Conference, Department of Medicine, UCSD Medical Center; March 5, 1991.
85. Diving Medicine – Grand Rounds, Division of Family Medicine, UCSD Medical Center; April 17, 1991.
86. HBO Therapy and its Role in the Management of Necrotizing Soft Tissue Infections – Trauma Conference, Department of Surgery, UCSD Medical Center; April 23, 1991.
87. Hyperbaric Medicine – Wednesday Morning Lecture Series, Sharp Memorial Hospital; May 22, 1991.
88. Diving and Decompression – Introductory Pulmonary Clinical Course, Pulmonary and Critical Care Division, UCSD Medical Center; July 3, 1991.
89. Drowning – Grand Rounds, Department of Surgery, UCSD Medical Center; August 3, 1991.

Presentations and Speaking Engagements (continued):

90. Clinical Nature of AGE I (hemoconcentration); Clinical Nature of AGE II (biochemical abnormalities); and Clinical Nature of AGE III (radiographic features) – Annual Conference of the Undersea and Hyperbaric Medical Society, Bethesda, Maryland; June 25, 1992.
91. Diving Medicine – Marine Medicine 1992, UCSD Office of Continuing Education, San Diego, California; July 16, 1992.
92. Neurologic Consequences of Diving Accidents – Grand Rounds, Department of Neurology, UCSD Medical Center; November 6, 1992.
93. Indications For and Use of Hyperbaric Oxygen Therapy – Department of Medicine Noon Conference, Veterans Affairs Medical Center, La Jolla, California; December 7-8, 1992.
94. Drowning and Diving Medicine – Palomar College; December 9, 1992.
95. Diving Physics; Decompression Tables and Computers; Pathophysiology and Treatment of AGE; Diagnosis and Management of Decompression Sickness; Multiplace and Monoplace Chambers – Underwater Medicine 1993, sponsored by Temple University, held at Bay Islands, Honduras; January 17-24, 1993.
96. Near Drowning; Pathophysiology and Treatment of Decompression Sickness; Asthma and Diving; History of Navy Tables and Their Safety; Computerized Diving – 22nd Diving Accident and Hyperbaric Medicine Course, Divers Alert Network, Duke University, held at Cozumel, Mexico; April 24 - May 1, 1993.
97. Hyperbaric Oxygen Therapy – Department of Medicine Noon Conference, Veterans Affairs Medical Center and UCSD Medical Center; September 13, 1993 and September 21, 1993.
98. Lies, Damn Lies and Diving Medicine – Diver's Day, sponsored by Hyperbaric Oxygen Treatment Center at Saint Joseph Health Center and The Lee's Summit Underwater Recovery Unit, Kansas City, Missouri; October 9, 1993.
99. Diving Associated Arterial Gas Embolism – Pulmonary and Critical Care Grand Rounds, UCSD Medical Center; February 17, 1994.
100. Diving Medicine; Carbon Monoxide Poisoning; Near Drowning; Hyperbaric Medicine – 14th Annual Colorado Symposium on Emergency Care, Durango, Colorado; April 22-24, 1994.
101. Diving Medicine; Near Drowning – Wilderness Medicine Conference, Snowmass, Colorado; August 18-19, 1994.
102. Near Drowning; U.S. Navy Tables Pathophysiology and Treatment of AGE; Computerized Diving; Asthma and Diving – 25th Diving Accident and Hyperbaric Medicine Course, Divers Alert Network, Duke University, held at Peter Island, British Virgin Islands; October 1-8, 1994.

Presentations and Speaking Engagements (continued):

103. Arterial Air Embolism; Asthma and Diving; Decompression Safety; Diving Accident Analysis – Underwater Medicine 1995, sponsored by Temple University, held at St. Lucia, West Indies; January 14-21, 1995.
104. Asthma and Diving; “Are Asthmatics Fit to Dive” Pre-meeting Symposium, Undersea and Hyperbaric Medical Society, West Palm Beach, Florida; June 21, 1995.
105. Diving Medicine; Keynote Speaker at Century Hospital Staff and Faculty Retreat, La Costa, California; July 15, 1995.
106. Neurologic Aspects of Dysbarism – Grand Rounds, Department of Neurosciences, UCSD Medical Center, San Diego, California; September 15, 1995.
107. Barotrauma; Arterial Air Embolism; Diving with Asthma; Decompression Safety; Near Drowning – Underwater Medicine 1996, sponsored by Temple University, held at Little Cayman Island; January 14-19, 1996.
108. Arterial Air Embolism; Technical Diving; Near Drowning; Diving with Asthma – Diving Medicine Course, Divers Alert Network, Duke University, held at Moorea, French Polynesia; September 29-October 6, 1996.
109. Advances in Treatment and Understanding Arterial Gas Embolism – Explosive Ordinance Disposal Group, Diving Medicine Symposium, Coronado, California; November 21, 1996.
110. Arterial Gas Embolism; Diving Safety; Diving and Asthma – Underwater Medicine 1997, sponsored by Temple University, held at Cozumel, Mexico; January 12-18, 1997.
111. The Care of the Critically Ill in a Hyperbaric Chamber, Carbon Monoxide Poisoning, Arterial Gas Embolism – IX International Symbolism of Critical Care Medicine, SOPATI Sao Paulo, Brazil; June 6-8, 1997.
112. Diving Medicine; Near Drowning – Wilderness Medicine Conference, Snowmass, Colorado; August 17-18, 1997.
113. Near Drowning – Grand Rounds, Department of Emergency Medicine, UCSD Medical Center, San Diego, California; November 11, 1997.
114. Oxygen Toxicity – Keynote Speaker at Great Lakes Chapter, Undersea and Hyperbaric Medical Society Meeting, Hamilton, Canada; November 15, 1997.
115. Review of Arterial Gas Embolism – Naval Environmental Health Conference, San Diego, California; March 27, 1998.
116. Pulmonary Barotrauma and Arterial Gas Embolism – Institute for Marine Medicine, Simon’s Town, Republic of South Africa; July 23, 1998.

Presentations and Speaking Engagements (continued):

117. Drowning and Breathhold Diving; Pathophysiology and Treatment of AGE and DCI; Potential Long Term Effects, Neurological, Aseptic Necrosis, etc; Computers and Diving, Pathophysiology and Treatment with HBO – Diving Medicine Course, Divers Alert Network, Duke University, held at Cozumel, Mexico; October 4-9, 1998.
118. Hyperbaric Oxygen Therapy - Grand Rounds, Northridge Hospital, Northridge, California; January 15, 1999.
119. Barotrauma; Diving with Asthma; Decompression Safety—Underwater Medicine 1999, sponsored by Temple University, held at Little Cayman Island; January 17-22, 1999.
120. Moderator, Session on Health Effects of Diving, Undersea and Hyperbaric Medical Society Meeting, Boston, Massachusetts; June 1999.
121. Non-Pulmonary Barotrauma, Pulmonary Barotrauma, Diving and Asthma, Near Drowning - Underwater Medicine 2000, sponsored by Temple University, held at Peter Island, British Virgin Islands; January 15-22, 2000.
122. Near Drowning—Grand Rounds, Department of Emergency Medicine, UCSD Medical Center, San Diego, California; March 13, 2001.
123. Diving Medicine; Near Drowning—Wilderness Medicine Conference, Keystone, Colorado; July 7-8, 2001.
124. Treatment of Decompression Illness, Non-Pulmonary Barotrauma, Pulmonary Barotrauma, Diving and Asthma, Near Drowning, Diving Tables and Computers - Underwater Medicine 2002, sponsored by Temple University, held at Curacao, Netherlands Antilles; January 12-19, 2002.
125. Drowning and Near Drowning, Topics and Advances in Internal Medicine, UCSD School of Medicine, San Diego, California; March 2, 2002.
126. Near Drowning, Sudden Death; Breath Hold Diving, Pathophysiology and Treatment of Arterial Gas Embolism, Fitness to Dive: Diving Action Network (DAN), 44th Diving and Hyperbaric Medicine Course, Turks & Caicos, B.W.I.; April 21-23, 2002.
127. Arterial Gas Embolism, The Diagnosis of Decompression Sickness and AGE, Naval School of Diving and Salvage, Panama City, Florida; October 17, 2002.
128. “Deep Decompression Stops and Their Effect Upon Doppler Ultrasonic Bubble Signals Following 210/50 and 170/30 Dives,” Deep Stops and Modern Decompression Strategies Workshop, NAUI Worldwide, Technical Diving Operations, Tampa Florida; February 22-23, 2003.
129. The Diagnosis of Decompression Sickness and Arterial Gas Embolism, Adjunctive Therapy for DCI Workshop, Duke University; April 17, 2003.

Presentations and Speaking Engagements (continued):

130. Arterial Gas Embolism, The Diagnosis of Decompression Sickness and AGE, Naval School of Diving and Salvage, Panama City, Florida; April 24, 2003
131. Underwater Medicine, 29th Annual Underwater Medicine Course, Temple University School of Medicine, Dominica West Indies; January 17-24, 2004.
132. Arterial Gas Embolism, The Diagnosis of Decompression Sickness and AGE, Naval School of Diving and Salvage, Panama City, Florida; April 29, 2004.
133. The Diagnosis of Decompression Sickness and Arterial Gas Embolism, Adjunctive Therapy for DCI Workshop, Duke University; April 30, 2004.
134. Non- pulmonary Barotrauma, Pulmonary Barotrauma, Decompression Sickness and the Deep Stop, The Diagnosis of Decompression Sickness, Computers and Diving, Technical diving and Nitrox. Divers Alert Network (DAN), 55th Diving and Hyperbaric Medicine Course, Bonaire, NA; Oct 21 - 28, 2005.
135. The Moon, Mars and Beyond: The Physiologic Problems of Space Flight Beyond Low Earth Orbit – Grand Rounds, Department of Emergency Medicine, UCSD Medical Center, San Diego, California; January 10, 2006.
136. Lung Barotrauma and Arterial Gas Embolism, Near Drowning, Diagnosing Diving Disorders, Decompression Computers, The Mission to Mars: Links between Undersea and Space Environments, Underwater Medicine 2006, Sponsored by Temple University, Saint Lucia; January 14-21, 2006.
137. Positional Asphyxia and How it Morphed into Compressional Asphyxia. 2nd Annual Sudden Death, Excited Delirium & In-Custody Death Conference. Institute for the Prevention of in Custody Deaths, INC. Las Vegas, Nevada November 28-30, 2007.
138. Pulmonary Barotrauma, Diagnosing DCS and AGE, Pulmonary Disorders and Diving, Near Drowning, and Diving Tables and Computers, Underwater Medicine 2008, Sponsored by Temple University, Dominica; January 13- 18, 2008.
139. The Diagnosis of Decompression Sickness, Computerized Diving, Technical Diving, Myths of Diving, Off-Label Uses of HBOT. Divers Alert Network (DAN), 62nd Diving and Hyperbaric Medicine Course, Cayman Brac, May 3-10 2008.
140. Barotrauma, Diving Tables and Computers, Pulmonary Disorders and Diving, Diagnosing DCS- The SANDHOG Criteria, Drowning Underwater Medicine 2009, Sponsored by Temple University, Cozumel; January 18-23, 2009.
141. Heart Weights and Their Importance in Autopsy, and Asphyxia and Sudden Death. Forensic Analyst: Excited Delirium, Sudden, In Custody Deaths. Institute for the Prevention of in Custody Deaths, INC. Las Vegas, Nevada April 15-17, 2009.

Presentations and Speaking Engagements (continued):

142. Restraint Asphyxia, Excited Delirium Conference, Canadian Centre for the Prevention of In-Custody Deaths, Niagara Falls, Canada May 25-26, 2009
143. Restraint Asphyxia Forensic Analyst: Excited Delirium, Sudden, In Custody Deaths. Institute for the Prevention of in Custody Deaths, INC, Baltimore Maryland, Oct 20-22, 2009
144. Restraint Asphyxia; Breathing 201. Practical Solutions Conference Canadian Centre for the Prevention of In-Custody Deaths, Niagara Falls, Canada April 19-20, 2010
145. The Science and Politics of Positional Asphyxia. 5nd Annual Sudden Death, Excited Delirium & In-Custody Death Conference. Institute for the Prevention of in Custody Deaths, INC. Las Vegas, Nevada November 18, 2010.
146. Barotrauma, Diving Tables and Computers, Pulmonary Disorders and Diving, Drowning, Investigating Diving Accidents; How do Divers Die? Underwater Medicine 2011, Sponsored by Temple University, St. Lucia; January 23-28, 2011.
- 147 Dive Computers, Pulmonary Barotrauma and AGE, and Investigation of Diving Deaths, NOAA/UHMS, Physicians Training in Diving Medicine. NOAA Western Conference Center, Seattle Washington Aug 8-19, 2011
148. Computers and Diving, Drowning, Barotrauma-Pulmonary and Others, and Investigation of Diving Deaths at "Diving and Hyperbaric Oxygen Therapy. Undersea and Hyperbaric Medical Society, Kailua – Kona, Oct 15-22, 2011
149. Barotrauma, Immersion Pulmonary Edema, Sudden Death in Divers, Fitness to Dive, Exercise and the Lungs. Sponsored by Temple University, Little Cayman Island: Jan 13-18, 2013
150. The History and Science of Positional/Restraint Asphyxia, Institute for the Prevention of In-Custody Deaths, April 24, 2014. Las Vegas Nevada
151. Why It May Not be Drowning, Medical Examination of Diving Fatalities Symposium, June 18, 2014. Undersea and Hyperbaric Medical Society, St. Louis MO.

Year	Attorney	Case Name	Trial/Dep.	Def/Plf
2014				
	Mr. Thomas Rice Senter, Goldfarb and Rice 1700 Broadway Suite 1700 Denver Colorado 80290	Booker vs. Denver	Trial	Defense
	Mr. Timothy Ferrand Cummings, McClorey, Davis, et al 19176 Hall Road, Suite 220 Clinton Township, MI 48038	Kulpa vs Cantea	Depo	Defense
	Mr. Frank Koziol Attorney at Law 618 Christensen Drive Anchorage, Alaska 99501	Pennington vs. Seward	Trial	Defense
	Mr. Danny Martiny Martiny and Associates 131 Airline Dr., Suite 201 Metairie, LA 70001	Cowart vs. JPSO	Trial	Defense

2013

Mr. Tom Gaillard
Galloway, Wettermark, Everest, et al
3263 Cottage Hill Road
Mobile Alabama 36606

Mingo vs Mobile

Depo Defense

Mr Keith Henson
Paule, Camazine & Blumenthal
165 Noth Meramec Ave, Suite 110
St. Louis, MO 63105-3772

Norman vs. Camden

Depo Defense

Mr. Richard Lesser
Lesser and Associates
423 S. Pacific Coast Hwy, Suite 206
Redondo Beach, CA 90277

Myers vs Si Tech

Trial Defense
Depo 2012

2012

Mr. Jeffrey O'Hara
Newmeyer and Dillon LLP
895 Dove Street, 5th Floor
Newport Beach, CA 92660

State of CA vs Tran

Trial Defense

Mr. Dennis Gonzales
Lawrence, Beach, Allen, et al
100 West Broadway, Suite 1200
Glendale, CA 91210-1219

Batchan vs. COLA

Depo & Defense
Trial

2011

Mr. Steven Hewitt Hewitt & Truskowski 4640 Lankershim Blvd North Hollywood CA 91602	Fullington vs Horizon	Depo & Trial	Defense
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Mr. Mark Hruska Schwartz and Horowitz 6751 N Federal Hwy, Suite 400 Boca Raton, FL 33487	Morita vs. Paradise	Depo	Defense
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Daniel E. Kenney Harrington, Foxx, Dubrow & Canter 1055 West Seventh Street, 29th Floor Los Angeles, California 90017-2547	Simmons v. Rapture	Depo & Trial	Defense
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Tom S. Neuman, M.D., FACP, FACPM, FUHM
579 Amphitheater Drive
Del Mar, California 92014
858-755-0795

Fee Schedule

My fees are \$600.00 per hour for meetings, conversations, consultations, review of documents, etc. For depositions my fee is \$2500.00 (flat deposition fee) and for trial \$5000.00 per day plus expenses (for air travel greater than 4 hours I require a first class ticket). I schedule depositions to begin at either 8 AM or 1 PM as I have to allocate a full half-day for these proceedings. I normally send out statements at the end of each month, however for depositions I must insist my fee be paid at the time of testimony. Travel time is billed at my usual daily rate. I also require that a cancellation fee of \$1000.00 be paid should a deposition or a trial be canceled within 3 business days of its scheduled date.