

DUKE UNIVERSITY MEDICAL CENTER
CURRICULUM VITAE
for
Permanent Record
and the
Appointments and Promotions Committee

Date Updated: November, 2020

Name: Richard E. Moon, BSc, MD, CM, MSc, FRCPC, FACP, FCCP

Primary academic appointment: Anesthesiology

Secondary appointment: Pulmonary and Critical Care Medicine

Present academic rank and title: Professor with Tenure

First Duke faculty appointment: 11/83; Assistant Professor

Citizenship: USA

Medical licensure:

Medical License, Ontario, Canada	1974
Federation Licensing Examination (FLEX)	1979
New York Medical License	1980
North Carolina Medical License (#27492)	1983

Specialty certification and dates:

Certified in Internal Medicine Royal College of Physicians of Canada	1978
Certified in Internal Medicine American Board of Internal Medicine	1979
Certified in Pulmonary Diseases Royal College of Physicians of Canada	1981
Certified in Pulmonary Diseases American Board of Internal Medicine	1983
Certified in Anaesthesia Royal College of Physicians of Canada	1984
Certified in Anesthesia American Board of Anesthesiology	1986

Specialty certification (cont'd):

Certified in Critical Care Medicine American Board of Internal Medicine	1992
Certified in Undersea and Hyperbaric Medicine (Cert #001073) Recertified American Board of Preventive Medicine	2000 2010, 2020

Education:

G.C.E. O-Level (Oxford and Cambridge Board) The Leys School Cambridge, England	1963-1966
Grade XIII (Honour Certificate) Ontario Scholar Thornhill Secondary School, Thornhill, Ontario, Canada	1966
Elective Experience in Internal Medicine Westminster Medical School London, England	1972
B.Sc. (Distinction), M.D., C.M. McGill University Montreal, Canada	1966-1973
M.Sc. (Biomedical Engineering) University of Toronto Toronto, Canada	1975-1979

Scholarly societies:

- Aerospace Medical Association
- Alpha Omega Alpha (1999)
- American College of Chest Physicians (Fellow)
- American College of Physicians (Fellow)
- American Medical Association
- American Physiological Society
- American Society of Anesthesiologists
- Association of University Anesthesiologists
- British Association of Sport and Exercise Medicine (BASEM)
- International Anesthesia Research Society
- North Carolina Medical Society
- Physiological Society
- Royal College of Physicians and Surgeons of Canada (Fellow)
- Society of Anesthesia and Sleep Medicine
- Sigma Xi Society (1972)
- South Pacific Underwater Medicine Society
- Undersea and Hyperbaric Medical Society (Fellow)

Professional experience:

Research Assistant in Medical Biophysics Ontario Cancer Institute Princess Margaret Hospital Ontario, Canada	1969-1971
Interne in Medicine Toronto General Hospital Toronto, Canada	1973-1974
Resident in Medicine Toronto General Hospital Toronto, Canada	1974-1975
Courtesy Staff York Central Hospital Richmond Hill Ontario, Canada	1974-1975
Emergency Physician Toronto East General Hospital Toronto, Canada	1974-1979
Medical Research Council Fellow Institute of Biomedical Engineering University of Toronto Toronto, Canada	1975-1979
Senior Medical Resident Chief Resident in Medicine Sunnybrook Medical Centre Toronto, Ontario	1977-1978
Research Associate Department of Otolaryngology University of Toronto Toronto, Canada	1978-1979
Emergency Casualty Officer Toronto General Hospital Toronto, Canada	1978-1979
Lecturer Department of Medicine University of Toronto Toronto, Canada	1978-1979

Professional experience (cont'd):

Fellow in Pulmonary Medicine Medical Research Council Fellow Department of Medicine Duke University Medical Center Durham, North Carolina	1979-1981
Resident in Anesthesiology Department of Anesthesiology F.G. Hall Environmental Laboratory Duke University Medical Center Durham, North Carolina	1981-1983
Assistant Professor Associate Professor Professor Department of Anesthesiology Duke University Medical Center Durham, North Carolina	11/1983-12/89 1/1990-8/98 8/98-Present
Associate Assistant Professor Associate Professor Professor Division of Pulmonary Medicine Department of Medicine Duke University Medical Center Durham, North Carolina	2/1984-12/89 1/1990-12/95 12/95-5/07 5/07-present
Unit Physician Center for Hyperbaric Medicine and Environmental Physiology Duke University Medical Center Durham, North Carolina	1983-Present
Medical Director Divers' Alert Network	1987-2010
Medical Director Center for Hyperbaric Medicine and Environmental Physiology Duke University Medical Center Durham, North Carolina	1989-Present
Division Chief General, Vascular and Transplant Anesthesia Duke University Medical Center Durham, North Carolina	2007-2015
Special qualifications: Graduate, Physicians Training in Diving and Hyperbaric Medicine IX U.S. Department of Commerce (NOAA)	October 1983

PUBLICATIONS

Refereed journals:

1. **Moon RE**, Phillips RA, Miller RG. Sedimentation and volume analysis of human bone marrow. *Ser Haematol* 1972;V:163-178.
2. **Moon RE**, Jordanov S, Perez A, Turksen IB. Human-like reasoning capability in a medical diagnostic system: the application of fuzzy set theory to computerized diagnosis. *J Clin Comput* 1979;8:121-150.
3. Brill P, **Moon RE**. An application of queuing theory to pharmacokinetics. *J Pharm Sci* 1980;69:558-560.
4. Dayal VS, Joy MLG, **Moon RE**, Lo A. Endotracheal artificial larynx - preliminary report. *J Otolaryngol* 1981;10:41-44.
5. Dayal VS, Joy ML, **Moon RE**, Lo A, Jares A. Endotracheal artificial larynx. *Ann Otol Rhinol Laryngol Suppl* 1982;95:1-32.
6. Joy MLG, **Moon RE**, Dayal VA. Design of the endotracheal artificial larynx. *Ann Otol Rhinol Laryngol* 1982;91(9S):11-17.
7. **Moon RE**, Dayal VA, Joy MLG. Evaluation of the endotracheal artificial larynx. *Ann Otol Rhinol Laryngol* 1982;91(9S):21-25.
8. **Moon RE**, Dayal VA, Joy MLG. Considerations in the design of an airflow-activated sound source for an endotracheal artificial larynx. *Ann Otol Rhinol Laryngol* 1982;91(9S):26-32.
9. Salzano JV, Camporesi EM, Stolp BW, **Moon RE**. Physiological responses to exercise at 47 and 66 ATA. *J Appl Physiol* 1984;57:1055-1068.
10. Torre-Bueno JR, Wagner PD, Saltzman HA, Gale GE, **Moon RE**. Diffusion limitation in normal humans during exercise at sea level and simulated altitude. *J Appl Physiol* 1985;58:989-995.
11. Gale GE, Torre-Bueno JR, **Moon RE**, Saltzman HA, Wagner PD. Ventilation-perfusion inequality in normal man during exercise at sea level and simulated altitude. *J Appl Physiol* 1985;58:978-988.
12. **Moon RE**. Anesthesia for fractured hip. *Br J Anaesth* 1985;57:541.
13. Wagner PD, Gale GE, **Moon RE**, Torre-Bueno JR, Stolp BW, Saltzman HA. Pulmonary gas exchange in humans exercising at sea level and simulated altitude. *J Appl Physiol* 1986;61:260-270.
14. **Moon RE**, Bergquist LV, Conklin B, Miller JN. Monaghan 225 ventilator under hyperbaric conditions. *Chest* 1986;89:846-851.
15. Camporesi EM, **Moon RE**. Management of critically ill patients in the hyperbaric environment. *J Hyperbaric Med* 1987;2:195-198.
16. Ferguson BJ, Mitchell TG, **Moon RE**, Camporesi EM, Farmer J. Adjunctive hyperbaric oxygen for treatment of rhinocerebral mucormycosis. *Rev Infect Dis* 1988;10:551-559.
17. Reeves JT, **Moon RE**, Grover RF, Groves BM. Increased wedge pressure facilitates decreased lung vascular resistance during upright exercise. *Chest* 1988;93:975-995.
18. Warren LP, Djang WT, **Moon RE**, Camporesi EM, Sallee DS, Anthony DC, Massey EW, Burger PC, Heinz ER. Neuroimaging of diving injuries to the central nervous system. *Am J Neuroradiol* 1988;9:933-938. Also in *AJR* 1988;151:1003-1008.

19. Van Hoesen KB, Camporesi EM, **Moon RE**, Hage ML, Piantadosi CA. Should hyperbaric oxygen be used to treat the pregnant patient for acute carbon monoxide poisoning? A case report and literature review. *JAMA* 1989;261:1039-1043.
20. Mitchell P, Goad R, Erwin W, Camporesi EM, **Moon RE**, Watkins WD, Bennett PB. Effect of epidural lidocaine on spinal cord blood flow. *Anesth Analg* 1989;68:312-317.
21. **Moon RE**, Camporesi EM, Kisslo JA. Patent foramen ovale and decompression sickness in divers. *Lancet* 1989;i:513-514.
22. **Moon RE**. Emergency treatment of diving casualties in remote areas. *Mar Tech Soc J* 1989;23:50-55.
23. Hampson NB, Camporesi EM, Stolp BW, **Moon RE**, Shook JE, Griebel JA, Piantadosi CA. Cerebral oxygen availability by NIR spectroscopy during transient hypoxia in humans. *J Applied Physiol* 1990;69:907-913.
24. Bond JG, **Moon RE**, Morris DL. Initial table treatment of decompression sickness and arterial gas embolism. *Aviat Space Environ Med* 1990;61:738-743.
25. Massey EW, **Moon RE**, Shelton DL, Camporesi EM. Hyperbaric oxygen therapy of iatrogenic air embolism. *J Hyperbaric Med* 1990;5:15-21.
26. Zhang J, Fife CE, Currie MS, **Moon RE**, Piantadosi CA, Vann RD. Venous gas emboli and complement activation after repetitive air diving. *Undersea Biomed Res* 1991;18:293-302.
27. Gorback MS, **Moon RE**, Massey JM. Extubation after trans-sternal thymectomy for myasthenia gravis: a prospective analysis. *South Med J* 1991;84:701-6.
28. Fawcett TA, **Moon RE**, Fracica PJ, Mebane GY, Theil DR, Piantadosi CA. Warehouse worker's headache: carbon monoxide poisoning from propane-fueled forklifts. *J Occup Med* 1992;34:12-15.
29. **Moon RE**, Fawcett TA, Exposito AJ, Camporesi EM, Bennett PB, Holthaus J. Platelet count in deep saturation diving. *Undersea Biomed Res* 1992;19:279-286.
30. Claybaugh JR, Goldinger JM, **Moon RE**, Fawcett TA, Exposito AG, Hong SK, Holthaus J, Bennett PB. Urinary vasopression and aldosterone and plasma volume during a saturation dive to 450 m. *Undersea Biomed Res* 1992;19:295-304.
31. Goldinger JM, Hong SK, Claybaugh JR, Niu AKC, Gutman SI, **Moon RE**, Bennett PB. Renal responses during a dry saturation dive to 450 msw. *Undersea Biomed Res* 1992;19:287-293.
32. Dodam JR, **Moon RE**, Olson NC, Exposito AJ, Fawcett TA, Huang YC, Theil DR, Camporesi EM, Swanson CR. Effects of clenbuterol hydrochloride on pulmonary gas exchange and hemodynamics in anesthetized horses. *Am J Vet Res* 1993;54:776-782.
33. Huang YCT, Caminiti SP, Fawcett TA, **Moon RE**, Fracica PF, Miller FJ, Young SL, Piantadosi CA. Natural surfactant and hyperoxic lung injury in primates. I. Physiology and biochemistry. *J Appl Physiol* 1994;76:991-1001.
34. Lowe VJ, Hoffman JM, Hanson MW, Paine S, Massey EW, Jordan LK, Gray L, **Moon RE**, Coleman RE. Cerebral imaging of decompression injury patients with 18F-2-fluoro-2-deoxyglucose positron emission tomography. *Undersea Hyperb Med* 1994;21:103-113.
35. Langford FPJ, **Moon RE**, Stolp BW, Scher RL. Treatment of cervical necrotizing fasciitis with hyperbaric oxygen therapy. *Otolaryngol Head Neck Surg* 1995;112:274-278.

36. Huang Y-CT, Sane AC, Simonson SG, Fawcett TA, **Moon RE**, Fracica PJ, Menache MG, Piantadosi, Young SL. Artificial surfactant attenuates hyperoxic lung injury in primates. I. Physiology and Biochemistry. J Appl Physiol 1995;78:1816-1822.
37. Huang Y-CTH, Fracica PJ, Simonson SG, Crapo JD, Young SL, Welty-Wolf KE, **Moon RE**, Piantadosi CA. V_A/Q abnormalities during gram negative sepsis. Respir Physiol 1996;105:109-121.
38. Hargasser S, Mielke L, Lanzinger M, Burgkart R, Entholzner E, Breinbauer B, Kling M, **Moon R**, Hipp R. Tauchenfälle durch Überdruckexposition. Sportorthopädie Sporttraumatologie 1996;12:176-180.
39. Mielke L. Breinbauer B. Kling M. Eisler K. **Moon RE**. Hipp R. Indikationen für den primären oder frühzeitigen Einsatz der HBO. Anesthesiol Intensivmed Notfallmed Schmerzther 1996;31:100-2.
40. **Moon RE**. Mielke L. Breinbauer B. Entholzner E. Hargasser S. Hipp R. Hyperbare Oxygenierung (HBO). Therapie mit Sauerstoff im Überdruck. Anesthesiol Intensivmed Notfallmed Schmerzther 1996; 31:97-9.
41. **Moon RE**, Sheffield PJ. Guidelines for treatment of decompression illness. Aviat Space Environ Med 1997;68:234-243.
42. Maynor ML, **Moon RE**, Klitzman B, Fracica PJ, Canada A. Brown recluse spider envenomation: a prospective trial of hyperbaric oxygen therapy. Acad Emerg Med 1997;4:184-192.
43. Simonson SG, Huang YCT, Fracica PJ, Weltywolf KE, **Moon RE**, Young SL, Piantadosi CA. Changes in the lung after prolonged positive pressure ventilation in normal baboons. J Crit Care 1997;12:72-82.
44. Maynor ML, **Moon RE**, Camporesi EM, Fawcett TA, Fracica PJ, Norvell HC, Levin LS. Chronic osteomyelitis of the tibia: treatment with hyperbaric oxygen and autogenous microvascular muscle transplantation. J South Orthop Assoc 1998;7:43-57.
45. Dahm P, Roland FH, Vaslef SN, **Moon RE**, Price DT, Georgiade GS, Vieweg J. Outcome analysis in patients with primary necrotizing fasciitis of the male genitalia. Urology 2000;56:31-35.
46. Filntis GA, **Moon RE**, Kraft KL, Farmer JC, Scher RL, Piantadosi CA. Laryngeal radionecrosis and hyperbaric oxygen therapy: Report of 18 cases and review of the literature. Ann Otol Rhinol Laryngol 2000;109:554-562.
47. Vote DA, Doar PO, **Moon RE**, Tofaletti JG. Blood glucose meter performance under hyperbaric oxygen conditions. Clin Chim Acta 2001;305:81-87.
48. McMahon TJ, **Moon RE**, Luschinger BP, Carraway MS, Stone AE, Stolp BW, Gow AJ, Pawloski JR, Watke P, Singel DJ, Piantadosi CA, Stamler JS. Nitric oxide in the human respiratory cycle. Nature Med 2002;8:711-17.
49. **Moon RE**, Long RJ. Drowning and near-drowning. Emerg Med 2002;14:377-86.
50. **Moon RE**, Feldmeier JJ. Hyperbaric oxygen: an evidence based approach to its application. Undersea Hyperb Med 2002;29:1-3.
51. **Moon RE**. Mini-forum on multiple sclerosis (MS) and hyperbaric oxygen therapy. Undersea Hyperb Med 2002;29:235-6.
52. Mummery HJ, Stolp BW, Dear G deL, Doar PO, Natoli MJ, Hobbs GW, Boso AE, Archibald JD, El-Moalem HE, **Moon RE**. The effects of age and exercise on physiological deadspace during simulated dives at 2.8 ATA. J Appl Physiol 2003;94:507-517.

53. Lanzinger MJ, Moretti EW, Wildermann RF, El-Moalem HE, Toffaletti JG, **Moon RE**. The relationship between ionized and total serum magnesium concentrations during abdominal surgery. *J Clin Anesth* 2003;15:245-249.
54. Buch DA, El Moalem H, Dovenbarger JA, Uguccioni DM, **Moon RE**. Cigarette smoking and decompression illness severity: a retrospective study in recreational divers. *Aviat Space Environ Med* 2003;74:1271-1274.
55. Dear G de L, Pollock NW, Uguccioni DM, Dovenbarger J, Feinglos MN, **Moon RE**. Plasma glucose responses in recreational divers with insulin-requiring diabetes. *Undersea Hyperb Med* 2004;31:291-301.
56. West BJ, Griffin LA, Frederick HJ, **Moon RE**. The independently fractal nature of respiration and heart rate during exercise under normobaric and hyperbaric conditions. *Respir Physiol Neurobiol* 2005;145:219-233.
57. Jennings RT, Murphy DM, Ware DL, Aunon SM, **Moon RE**, Bogomolov VV, Morgun VV, Voronkov YI, Fife CE, Boyars MC, Ernst RD. Medical qualification of a commercial spaceflight participant: not your average astronaut. *Aviat Space Environ Med* 2006;77:475-84.
58. Longphre JM, Denoble PJ, **Moon RE**, Vann RD, Freiburger JJ. First aid normobaric oxygen for the treatment of recreational diving injuries. *Undersea Hyperb Med* 2007;34:43-9.
59. Freiburger JJ, Padilla-Burgos R, Chhoeu AH, Kraft KH, Boneta O, **Moon RE**, Piantadosi CA. Hyperbaric oxygen treatment and bisphosphonate-induced osteonecrosis of the jaw: a case series. *J Oral Maxillofac Surg* 2007;65:1321-7.
60. Vann RD, **Moon RE**, Freiburger JJ, Denoble PJ, Dear GL, Stolp BW, Massey EW. Decompression illness diagnosis and decompression study design. *Aviat Space Environ Med* 2008;79:797-798.
61. Scafetta N, **Moon RE**, West BJ. Fractal response of physiological signals to stress conditions, environmental changes, and neurodegenerative diseases. *Complexity* 2007;12:12-17.
62. Cherry AD, Forkner IF, Frederick HJ, Natoli MJ, Schinazi EA, Longphre JP, Conard JL, White WD, Freiburger JJ, Stolp BW, Pollock NW, Doar PO, Boso AE, Alford EL, Walker AJ, Ma AC, Rhodes MA, **Moon RE**. Predictors of increased PaCO₂ during immersed prone exercise at 4.7 ATA. *J Appl Physiol* 2009;106:316-325.
63. **Moon RE**, Cherry AD, Stolp BW, Camporesi EM. Pulmonary gas exchange in diving. *J Appl Physiol* 2009;106:668-677.
64. Wester TE, Cherry AD, Pollock NW, Freiburger JJ, Natoli MJ, Schinazi EA, Doar PO, Boso AE, Alford EL, Walker AJ, Uguccioni DM, Kernagis D, **Moon RE**. Effects of head and body cooling on hemodynamics during immersed prone exercise at 1 ATA. *J Appl Physiol* 2009;106:691-700.
65. Rhodes MA, Carraway MS, Piantadosi CA, Reynolds CM, Cherry AD, Wester TE, Natoli MJ, Massey EW, **Moon RE**, Suliman HB. Carbon monoxide, skeletal muscle oxidative stress, and mitochondrial biogenesis in humans. *Am J Physiol Heart Circ Physiol* 2009;297:H392-H399.
66. Freiburger JJ, Yoo DS, Dear G de L, McGraw TA, Blakey GH, Padilla Burgos R, Kraft K, Nelson JW, **Moon RE**, Piantadosi CA. Multimodality surgical and hyperbaric management of mandibular osteoradionecrosis. *Int J Radiat Oncol Biol Phys* 2009;75:717-24.
67. **Moon RE**. Adjunctive therapy for decompression illness: a review and update. *Diving Hyperb Med*. 2009;39:81-7.

68. Peacher DF, Pecorella SR, Freiburger JJ, Natoli MJ, Schinazi EA, Doar PO, Boso AE, Walker AJ, Gill M, Kernagis D, Ugucconi D, **Moon RE**. Effects of hyperoxia on ventilation and pulmonary hemodynamics during immersed prone exercise at 4.7 ATA: possible implications for immersion pulmonary edema. *J Appl Physiol* 2010;109:68-78.
69. **Moon RE**, Gray LL. Breath-hold diving and cerebral decompression illness. *Undersea Hyperb Med* 2010; 37:1-5.
70. Vann RD, Butler FK, Mitchell SJ, **Moon RE**. Decompression sickness. *Lancet* 377:153-64, 2011.
71. Fraser JAV, Peacher DF, Freiburger JJ, Natoli MJ, Schinazi EA, Beck IV, Walker JR, Doar PO, Boso AE, Walker AJ, Kernagis DN, **Moon RE**. Risk factors for immersion pulmonary edema: hyperoxia does not attenuate pulmonary hypertension associated with cold water immersed prone exercise at 4.7ATA. *J Appl Physiol* 2011;110:610-8.
72. Flink BJ, Rivelli SK, Cox EA, White WD, Falcone G, Vail TP, Young CC, Bolognesi MP, Krystal AD, Trzepacz PT, **Moon RE**, Kwatra MM. Obstructive sleep apnea and incidence of postoperative delirium after elective knee replacement in the nondemented elderly. *Anesthesiology*. 2012;116:788-96.
73. Soh CR, Pietrobon R, Freiburger JJ, Chew ST, Rajgor D, Gandhi M, Shah J, **Moon RE**. Hyperbaric oxygen therapy in necrotising soft-tissue infections - A study of patients in the United States Nationwide Inpatient Sample. *Intensive Care Med*. 2012;38:1143-51.
74. Murphy-Lavoie H, Piper S, **Moon RE**, Legros T. Hyperbaric oxygen therapy for idiopathic sudden sensorineural hearing loss. *Undersea Hyperb Med*. 2012;39:777-92.
75. Freiburger JJ, Padilla-Burgos R, McGraw T, Suliman HB, Kraft KH, Stolp BW, **Moon RE**, Piantadosi CA. What is the role of hyperbaric oxygen in the management of bisphosphonate-related osteonecrosis of the jaw: a randomized controlled trial of hyperbaric oxygen as an adjunct to surgery and antibiotics. *J Oral Maxillofac Surg*. 2012;70:1573-83.
76. Torp KD, Carraway MS, Ott MC, Stolp BW, **Moon RE**, Piantadosi CA, Freiburger JJ. Safe administration of hyperbaric oxygen after bleomycin: a case series of 15 patients. *Undersea Hyperb Med*. 2012;39:873-9.
77. Halaweish AF, **Moon RE**, Foster WM, Soher BJ, McAdams HP, James MacFall J, Ainslie MD, Hashoian RS, MacIntyre NR, Charles C. Perfluoropropane gas as a magnetic resonance lung imaging contrast agent in humans. *Chest*. 2013;144:1300–1310.
78. Massey EW, **Moon RE**. Neurology and diving. *Handb Clin Neurol*. 2014;120:959-69.
79. Waldron NH, Miller TE, Thacker JK, Manchester AK, White WD, Nardiello J, Elgasim MA, **Moon RE**, Gan TJ. A prospective comparison of a noninvasive cardiac output monitor versus esophageal Doppler monitor for goal-directed fluid therapy in colorectal surgery patients. *Anesth Analg*. 2014;118:966-75.
80. Miller TE, Thacker JK, White WD, Mantyh C, Migaly J, Jin J, Roche AM, Eisenstein EL, Edwards R, **Moon RE**, Gan TJ. Reduced length of hospital stay in colorectal surgery after implementation of an enhanced recovery protocol. *Anesth Analg*. 2014;118:1052-61.
81. **Moon RE**. Hyperbaric oxygen treatment for air or gas embolism. *Undersea Hyperb Med*. 2014;41:151-157.
82. **Moon RE**. Hyperbaric oxygen treatment for decompression sickness. *Undersea Hyperb Med*. 2014;159-166.

83. Gill M, Natoli MJ, Vacchiano C, MacLeod DB, Ikeda K, Qin M, Pollock NW, **Moon RE**, Pieper C, Vann RD. Effects of elevated oxygen and carbon dioxide partial pressures on respiratory function and cognitive performance. *J Appl Physiol*. 2014;117:406-12.
84. Peacher DF, Martina SD, Otteni CE, Wester TE, Potter JF, **Moon RE**. Immersion pulmonary edema and comorbidities: case series and updated review. *Med Sci Sports Exerc*. 2015;47:1128-1134.
85. Pendergast DR, **Moon RE**, Krasney JJ, Held HE, Zamparo P. Human physiology in an aquatic environment. *Compr Physiol*. 2015;5:1705-1750.
86. Medford MA, Gasier HG, Hexdall E, Moffatt A, Freiburger JJ, **Moon RE**. Charcoal type used for hookah smoking influences CO production. *Undersea Hyperb Med*. 2015;42:375-80.
87. Pecorella SR, Peacher DF, Potter JV, Cherry AD, Welty-Wolf KE, Piantadosi CA, **Moon RE**, Suliman HB. The HO-1/CO system regulates mitochondrial-capillary density relationships in human skeletal muscle. *Am J Physiol Lung Cell Mol Physiol*. 2015;309:L857-71.
88. **Moon RE**, Peacher DF, Potter JF, Wester TE, Cherry AD, Natoli MJ, Otteni CE, Kernagis DN, White WD, Freiburger JJ. Swimming-induced pulmonary edema: pathophysiology and risk reduction with sildenafil. *Circulation*. 2016;133:988-996.
89. Yen TE, Allen JC, Rivelli SK, Patterson SC, Metcalf MR, Flink BJ, Mirrakhimov AE, Lagoo SA, Vail TP, Young CC, **Moon RE**, Trzepacz PT, Kwatra MM. Association between serum IGF-I levels and postoperative delirium in elderly subjects undergoing elective knee arthroplasty. *Sci Rep*. 2016;6:20736.
90. Freiburger JJ, Derrick BD, Natoli MJ, Akushevich I, Schinazi EA, Parker C, Stolp BW, Bennett PB, Vann RD, Dunworth SAS, **Moon RE**. Assessment of the interaction of hyperbaric N₂, CO₂ and O₂ on psychomotor performance in divers. *J Appl Physiol (1985)*. 2016;121: 953-964.
91. **Moon RE**, Martina SD, Peacher DF, Kraus WE. Deaths in triathletes: immersion pulmonary oedema as a possible cause. *BMJ Open Sport Exerc Med*. 2016;2:e000146 doi:10.1136/bmjsem-2016-000146.
92. Bennett-Guerrero E, Lockhart EL, Bandarenko N, Campbell ML, Natoli MJ, Jamnik VK, Carter TR, **Moon RE**. A randomized controlled pilot study of VO₂ max testing: a potential model for measuring relative in vivo efficacy of different red blood cell products. *Transfusion*. 2017;57:630-636.
93. Dunworth SA, Natoli MJ, Cooter M, Cherry AD, Peacher DF, Potter JF, Wester TE, Freiburger JJ, **Moon RE**. Hypercapnia in diving: A review of the mechanism, measurement and effects of carbon dioxide retention during immersed exercise at depth. *Undersea Hyperb Med*. 2017;44:191-209.
94. Gulack B, Hale B, White WD, **Moon RE**, Bennett-Guerrero E. Marriage and mortality after non-cardiac surgery. *J Surg Res*. 2017;210:152-158.
95. Lance RM, Natoli MJ, Dunworth SAS, Freiburger JJ, **Moon RE**. The Dewey monitor: Pulse oximetry can independently detect hypoxia in a rebreather diver. *Undersea Hyperb Med*. 2017;44:569-580.
96. Calabrese E, Ceponis PJM, Derrick BJ, **Moon RE**. Successful Treatment of pneumatosis intestinalis with associated pneumoperitoneum and ileus with hyperbaric oxygen therapy. *BMJ Case Rep*. 2017 May 30;2017. pii: bcr-2017-219209. doi: 10.1136/bcr-2017-219209.
97. Grünig H, Nikolaidis PT, **Moon RE**, Knechtle B. Diagnosis of swimming induced pulmonary edema-a review. *Front Physiol*. 31 August 2017; <https://doi.org/10.3389/fphys.2017.00652>.

98. Horres CR, Adam MA, Sun Z, Thacker JK, **Moon RE**, Miller TE, Grant SA. Enhanced recovery protocols for colorectal surgery and postoperative renal function: a retrospective review. *Perioper Med (Lond)*. 2017 Sep 21;6:13. doi: 10.1186/s13741-017-0069-0. eCollection 2017.
99. Lechner M, Sutton L, Fishman JM, Kaylie DM, **Moon RE**, Masterson L, Klingmann C, Edmonds C, Birchall MA, Lund VJ, Rubin JS. Otorhinolaryngology and diving-Part 1: Otorhinolaryngological hazards related to compressed gas scuba diving: a review. *JAMA Otolaryngol Head Neck Surg*. 2018;144:252-258.
100. Lechner M, Sutton L, Fishman JM, Kaylie DM, **Moon RE**, Masterson L, Klingmann C, Birchall MA, Lund VJ, Rubin JS. Otorhinolaryngology and diving-Part 2: Otorhinolaryngological fitness for compressed gas scuba diving: a review. *JAMA Otolaryngol Head Neck Surg*. 2018;144:259-263.
101. Reynolds JD, Jenkins T, Matto F, Nazemian R, Farhan O, Morris N, Longphre JM, Hess DT, **Moon RE**, Piantadosi CA, Stamler JS. Pharmacologic targeting of red blood cells to improve tissue oxygenation. *Clin Pharmacol Ther*. 2017 Dec 14 [Epub ahead of print].
102. Bosco G, Rizzato A, **Moon RE**, Camporesi EM. Environmental physiology and diving medicine. *Front Psychol* 2018;9:72. doi: 10.3389/fpsyg.2018.00072.
103. Zapol WM, Charles HC, Martin AR, Sá RC, Yu B, Ichinose F, MacIntyre N, Mammarrappallil J, **Moon R**, Chen JZ, Geier ET, Darquenne C, Prisk GK, Katz I. Pulmonary delivery of therapeutic and diagnostic gases. *J Aerosol Med Pulm Drug Deliv*. 2018;31:78-87.
104. Alvarez Villela MA, Dunworth S, Harlan NP, **Moon RE**. Can my patient dive after a first episode of primary spontaneous pneumothorax? A systematic review of the literature. *Undersea Hyperb Med*. 2018;45:199-208.
105. Reynolds JD, Jenkins T, Matto F, Nazemian R, Farhan O, Morris N, Longphre JM, Hess DT, **Moon RE**, Piantadosi CA, Stamler JS. Pharmacologic targeting of red blood cells to improve tissue oxygenation. *Clin Pharmacol Ther*. 2018;104:553-563.
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201. Martina SD, Peacher DF, **Moon RE**. Immersion pulmonary edema: cardiorespiratory factors. Undersea & Hyperbaric Medical Society Annual Scientific Meeting Abstract #D137, 2012.
202. Roller R.A., Freiberger JJ, Piantadosi CA, **Moon RE**, Stolp B. Hyperbaric oxygen for radiation-induced cystitis & proctitis. Undersea & Hyperbaric Medical Society Annual Scientific Meeting Abstract #E104, 2012.
203. Vann RD, Howle LE, Pollock NW, **Moon RE**. Do arterialized VGE initiate cerebral or spinal decompression sickness (DCS)? Undersea & Hyperbaric Medical Society Annual Scientific Meeting Abstract #F126, 2012.
204. **Moon RE**, Kisslo JA, Freiberger JJ, Lynch MJ, Roller RA, Martina S, Natoli MJ, Schinazi EA, Risum N. Echocardiography during immersion: implications for the pathophysiology of immersion pulmonary edema. American Society of Anesthesiologists Annual Meeting Abstract #A077, 2012.
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208. Peacher DF, Freiberger JJ, Martina SD, Cherry AD, Wester TE, Natoli MJ, Schinazi EA, Kernagis D, **Moon RE**. Immersion pulmonary edema susceptibility: hemodynamics and effect of sildenafil. American Society of Anesthesiologists Annual Meeting Abstract #A4070, 2013.
209. **Moon RE**, Martina SD, Freiberger JJ, Natoli MJ, Schinazi EA, Armour A, Rivera J, Kisslo JA. Swimming-induced pulmonary edema (SIPE) is due to augmented immersion-related preload and reduced LV compliance. American Society of Anesthesiologists Annual Meeting Abstract A3242, 2014.
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211. Dunworth SA, Alvarez Villela M, Harlan N, Natoli, MJ, Parker CK, Schinazi EA, Piantadosi CA, **Moon RE**. Effects of high-intensity interval training (HIT) in a hyperoxic-hyperbaric environment on exercise performance at altitude. Undersea & Hyperbaric Medical Society Annual Scientific Meeting, 2016.

212. Ceponis P, Fox W, **Moon R**. A Case of non-dysbaric arterial gas embolism associated with necrotizing pneumonia and pulmonary bullae. Undersea & Hyperbaric Medical Society Annual Scientific Meeting, 2016.
213. Alvarez Villela M, Dunworth SA, Kraft BD, Harlan N, Natoli, MJ, Parker CK, Schinazi EA, Piantadosi CA, **Moon RE**. Hyperbaric oxygen activates mitochondrial biogenesis in skeletal muscle. Undersea & Hyperbaric Medical Society Annual Scientific Meeting, 2017.
214. Weis TW, Wilbur JC, Knaus DA, Buckley JC, Vann RD, Sevick JR, Stump DA, Deal DD, Ramsey M, Natoli MJ, Fellows A, Marshall C, Magari PJ, Cooter M, **Moon RE**. Exogenous nitric oxide and gas switching during decompression to attenuate decompression stress. Undersea & Hyperbaric Medical Society Annual Scientific Meeting, 2018.
215. Weis TW, Dong TW, Natoli MJ, Lance RM, Howle LE, Pieper CF, Freiberger JJ, Derrick BJ, **Moon RE**. Experimental testing of Cross corrections to decompression tables for dives at altitude. Undersea & Hyperbaric Medical Society Annual Scientific Meeting, 2019.

Consultant appointments:

Physician-on-Call	
Divers Alert Network	1983-2011
Duke Dive Medicine, Duke University Medical Center	1983-present
Consulting Anesthesiologist, Consulting Pulmonary Physician	1984-1995
Person County Hospital, Roxboro, NC	
Medical Consultant	1984-1987
Deep Saturation Diving Program	
GUSI/GKSS, Geesthacht, Federal Republic of Germany	
Visiting Consultant	Aug. 95-Nov. 95
King Faisal Specialist Hospital & Research Centre	
Riyadh, Saudi Arabia	
Diving Medical Review Board	1997-Present
National Oceanic and Atmospheric Administration (NOAA)	
United States Dept. of Commerce	
ISLE PB Protocol Review Committee	2010
National Aeronautics and Space Administration (NASA)	
Member, RCCA Aerospace Medicine, Physiology and Toxicology Clinical Case Review Team for F/A-18A-F and EA-18G hazard reports	2017-2019
Boeing, US Navy (NAVAIR)	

Professional awards and special recognitions:

Medical Research Council Fellowship	1975-1977
Medical Research Council of Canada	1978-1980
Teacher of the Year	1986
Department of Anesthesiology	
Duke University	

Oceaneering Award for Contributions to Diving Safety Undersea and Hyperbaric Medical Society	1993
Award for Excellence in Medical Student Education Department of Anesthesiology, Duke University	1997
Elected to Alpha Omega Alpha	1999
Elected to Frank E. Engel Society School of Medicine, Duke University (3 year term)	2000-2003
Boerema Award for exceptional contributions to the field of hyperbaric medicine	2007
Mentorship Award AMA-Women Physicians Congress Physician Mentor Recognition Program	2007
Teacher of the Year Department of Anesthesiology Duke University	2009
Contribution to Dive Safety Award Divers Alert Network Asia-Pacific	2010
Leonard Palumbo Jr, MD Faculty Achievement Award for compassionate patient care and excellence in the teaching and mentoring of young physicians School of Medicine, Duke University	2012
Fellow of Undersea and Hyperbaric Medicine (FUHM) Undersea and Hyperbaric Medical Society	2012
Top 20 Medical Professors in North Carolina StateStats.com, OnLineSchoolsNorthCarolina.com (http://onlineschoolsnorthcarolina.com/top-college-professors-in-north-carolina/medical-nursing/ , accessed May 5, 2013)	2013
Albert R. Behnke Award Undersea & Hyperbaric Medical Society	2013
Nominee, Mentoring Excellence in Research Award Foundation for Anesthesia Education & Research	2014
America's Best Physicians	2015, 2019
Speaker, CJ Lambertsen Lecture Undersea & Hyperbaric Medical Society Annual Scientific Meeting	2016
Leadership:	
<i>Duke Medical Center and School of Medicine:</i>	
Research Renaissance Committee Duke University Medical Center	1983
Co-Director Anesthesiology, Surgery & Environmental Physiology Study Track	1995-2007
Program Director, Anesthesiology, Surgery & Environmental Physiology Study Track	2007-Present

University Academic Council	1996-1998
Clinical Sciences Council	1996-2006
Search Committee Director of Respiratory Care Services	1996-1997
Search Committee (Chair of Anesthesiology)	2001
Respiratory Status Monitoring Group	2005-Present
Third Year Medical School Committee	1995-Present
Respiratory Status Monitoring Subcommittee (Chair)	2005-2014
Appointment, Promotion & Tenure Committee	2016-2020

Department:

Medical Student Education	1984-Present
Resident Evaluation	1984-1991
Resident Education	1987-1991
Executive	1988-2016
Internal Advisory	1988-1991
Scheduling	1988-1991
Finance	1991-2004
Appointment, Promotion & Tenure	1991-2017
Patient Satisfaction	1997-1998
Executive Team	2001-2015

National:

Education Committee Undersea and Hyperbaric Medical Society	1986-1994
Executive Committee Undersea and Hyperbaric Medical Society	1990-2008
President Undersea and Hyperbaric Medical Society	1994-1996
Abstract Review Subcommittee on Respiration American Society of Anesthesiologists	1994-1999 2009-present
Chair, Abstract Review Subcommittee on Respiration American Society of Anesthesiologists	2013-2017
Hyperbaric Oxygen Therapy Committee Undersea and Hyperbaric Medical Society	1996-Present
Chair, Hyperbaric Oxygen Therapy Committee Undersea and Hyperbaric Medical Society	2013-2019

Diving Committee Undersea and Hyperbaric Medical Society	1997-Present
Examination Subcommittee, Undersea and Hyperbaric Medicine American Board of Preventive Medicine	1999-Present
DCI Adjunctive Therapy Committee Undersea & Hyperbaric Medical Society	1993-Present
Committee on Respiratory Care American Society of Anesthesiologists	2009-2015
Educational Track Subcommittee on Fundamentals of Anesthesiology American Society of Anesthesiologists	2013-2019
Committee on Scientific Advisory American Society of Anesthesiologists	2013-2017
Aeromedicine, Physiology and Toxicology Clinical Review Team Root Cause Corrective Action investigation into F-18A-F, EA-18G, T-45 aircraft physiologic episodes (USN, Boeing)	2017-2019
International:	
Consulting Member Long Term Health Effects Working Group Medical Research Council, London, UK Decompression Sickness Panel Scientific Committee	1990-1995 1996
State:	
Committee Member North Carolina Industrial Commission Liaison Committee	1992 - 2003

Areas of research interest:

Pulmonary gas exchange under anesthesia
Environmental physiology: altitude hypoxia, diving, immersion
Pathophysiology of neurological decompression sickness
Mechanisms of hyperbaric oxygen therapy
Mechanisms of postoperative pulmonary dysfunction
Fractal analysis of breathing pattern
Control of breathing
Opioid-induced ventilatory depression
Tissue oxygenation monitoring

Grants:

ASA Research Starter Grant. \$6,450. "Analysis of Lung Characteristics Under Anesthesia Using Frequency Dependence of Impedance," Principal Investigator. January 1983 - December 1985.

Norwegian Underwater Technology Centre. \$9,000. "Hemoglobin - Carbon Monoxide Interaction at Increased Ambient Pressure," Principal Investigator. 1984-1986.

Anaquest Contract. \$34,500. "Assessment of Hypoxic Ventilatory Responses to RX-77989, A New Potent Narcotic in Healthy Volunteers," Co-investigator. P.I.: E.M. Camporesi, June 1987 - June 1988.

North Carolina School of Veterinary Medicine, Raleigh, N.C. \$12,000. "Measurement of V_A/Q in the Anesthetized Horse," Co-investigator. P.I.: J. Swanson, June 1987 - June 1989.

GUSI, GKSS Contract. \$9,400. "Measurement of Plasma Volume and Interstitial Volume in Human Divers During Deep Hyperbaric Exposures," Co-principal investigator with E.M. Camporesi, October 1987 - December 1988.

Office of Naval Research Contract. \$172,695. "Factors Affecting CNS Oxygen Toxicity in Humans," Co-investigator. P.I.: R.D. Vann, January 1988 - December 1990.

American Lung Association. \$9,985. "The Role of Thromboxane in the Pathophysiology of Acute Lung Injury," Co-investigator and Advisor for D.R. Theil, July 1988 - June 1989.

National Institutes of Health grant. "Acute Lung Injury - Mechanisms and Therapy" \$6,386,259. Coinvestigator. PI: James Crapo, M.D. 7/1/89 to 7/1/94.

National Oceanic and Atmospheric Administration contract. \$108,060. "Significance of Patent Foramen Ovale in the Pathogenesis of Decompression Sickness". Principal Investigator. Co-Investigators: E.M. Camporesi and J.A. Kisslo October 1989 - November, 1992.

Anesthesia Patient Safety Foundation contract. \$43,644. "Mechanisms of Intraoperative Carbon Monoxide Poisoning". Principal Investigator. Co-Investigators: A.F. Meyer and D.S. Millington. January 1, 1993 - December 31, 1993.

United States Air Force grant. \$80,750. Pulmonary Responses to Pressure Breathing. Co-investigator (40%). PI: Bryant W. Stolp, M.D., Ph.D., Co-investigator: Guy de L. Dear, M.B., B.Chir. April 30, 1993 - March 31, 1994. AL/CF-TR-1995-0049, Brooks Air Force Base, Texas.

National Institute of Health grant. # P01 HL31992-11. \$719,080 Acute Lung Injury - Mechanisms and Therapy. Co-investigator. PI: James Crapo, M.D. 4/1/95 - 3/31/96.

Hyperbaric Funds. Early Detection of High Altitude Pulmonary Edema (HAPE). PI: Richard Moon, M.D. Co-PI: Henry D. Sostman, M.D. 1/94 - 1/95.

National Highway Traffic Safety Administration. Rural Preventable Mortality. Consultant. PI: Paul Cunningham, M.D., East Carolina University. 3/93-3/95.

Department of Anesthesiology, Duke University Medical Center. \$10,000. Effect of Age and Analgesic Regimen on Postoperative Pulmonary and Diaphragm Function. Principal Investigator. 1/13/94 to 1/13/95.

Departments of Anesthesiology and Pathology, Duke University Medical Center. \$6,010. Effect of Age on Pulmonary Alveolar Macrophage Function During Anesthesia. Principal Investigator. 3/10/94 - 3/10/95.

Duke University Medical Center \$25,000. Mechanisms of Carbon Monoxide Generation in Anesthetic Circuits. Principal Investigator (80%). Co-investigators: C. Sparacino (Research Triangle Institute) and A.F. Meyer.

United States Air Force grant. \$115,000. Cardiorespiratory Effects of Positive Pressure Breathing. Co-investigator. PI: Bryant W. Stolp, M.D., Ph.D. 5/1/95 - 4/30/96.

F.G. Hall Laboratory and DAN. Contract with Jordanian Armed Forces. \$75,000. Hyperbaric Medicine and Physiology Course. Drs. RE Vann, PB Bennett, RE Moon, CA Piantadosi, Co- Investigators. 9/95- 12/95.

NIH P01 HL31992. Program Project: Acute Lung Injury-Mechanism and Therapy. \$14,226,535. Project Director: James D. Crapo, MD, Co-investigator: RE Moon, MD. 5/94-3/00.

Professional Association of Diving Instructors Foundation. \$7,370. Investigation of Impaired Carbon Dioxide Elimination During Scuba Diving. Principal Investigator. Co-investigator: Bryant W. Stolp, M.D., Ph.D. 11/1/96 - 3/1/97.

Departments of Anesthesiology and Radiology, Duke University Medical Center and Baxter Healthcare. \$6,010. Effects of Hypoxia, Carbon Dioxide and Exercise on the Pulmonary Vasculature in Normal Humans Assessed by Cine-Magnetic Resonance Imaging . Principal Investigator. 11/1/97 - 6/30/98.

NIH R01-AG019766. Madan Kwatra. Co-investigator: Richard Moon. Molecular Basis of Postoperative Delirium in the Elderly. \$1,673,816. 1/15/03-12/31/08.

US Naval Sea Systems Command. Effects of exercise, gas density, and static lung loads on end tidal-arterial PCO₂ differences breathing N₂-O₂ mixtures during immersed prone exercise. PI: Richard Moon (2003: 2%, 2004: 5%). \$400,665. 4/1/03-9/10/04.

Duke Hospital. Investigation and prevention of postoperative respiratory depression. \$127,529 1/1/06-12/31/06.

Army Research Office: ARO 50472-MA-DRI, Modeling complex phenomena using multiscale series. PI: Nicola Scafetta, PhD. Co-investigator: Richard Moon, MD. \$297,890 8/106-7/31/09.

US Naval Sea Systems Command. Immersion pulmonary edema: Its cause and prevention. PI: Richard Moon, MD. \$387,216 1/1/07-3/31/10.

Divers Alert Network: Immersion Pulmonary Edema. PI: Richard Moon, MD. \$100,000 7/1/07.

Office of Naval Research N00014-08-1-0518. Biochemical Markers of Decompression Stress. PI: Richard Moon, MD. \$165,788 03/01/08-02/28/10.

US Naval Sea Systems Command N0463A-09-BAA01. Screening tests for susceptibility to immersion pulmonary edema: PI: Richard Moon, MD. \$620,160 1/1/10-6/30/14.

US Naval Sea Systems Command N0463A-12-C-0001. Hypercapnia: Cognitive Effects and Monitoring. Co-I (PI John Freiburger) \$1,270,701. 9/28/12-9/27/15.

Defense Advanced Research Projects Agency, Creare Inc. Acceleration of Safe Decompression: PI Richard Moon, MD. \$807,513. 1/1/13-12/31/17.

NIH 5R01-HL11294-04. Human Lung Regional Ventilation Defect Severity Measured by Fluorine-19 Gas MRI. Co-I (PI Hal Charles). \$743,114. 5/1/15-4/30/19.

NIH 5P01-HL108801-04. Regulation of Mitochondrial Quality Control by Heme Oxygenase-1 System in Sepsis. Co-I (PI Claude Piantadosi). 7/1/14-6/30/17.

Wilderness Medical Society: PI and Mentor: Richard E. Moon, MD. The Effect of Riociguat on Gas Exchange, Exercise Performance and Pulmonary Artery Pressure during Acute Altitude Exposure. \$10,000. 3/1/14-6/1/15.

NIH 5P01-HL108801-04. Brigham and Women's Hospital. Regulation of Mitochondrial Quality Control by Heme Oxygenase-1 System in Sepsis. Co-I. (PI Claude Piantadosi, MD). 7/01/14-6/30/16.

Office of Naval Research N00014-15-1-2519. Early Detection of Hypoxia during Rebreather Diving Using Pulse Oximetry. PI Richard Moon, MD. 8/1/15-7/31/17.

US Naval Sea Systems Command. N00024-18-C-4318. Altitude Decompression Tables. (PI Richard Moon, MD). \$961,773. 12/1/17-11/30/20.

US Naval Sea Systems Command. N00024-18-C-4317. Development of a Pulse Oximeter to Independently Monitor Oxygen Levels in Rebreather Divers. (PI Richard Moon, MD). \$244,816. 12/1/17-11/30/19.

Defense Advanced Research Projects Agency, Creare Inc. S604/W31P4Q-18-C-0051. Advanced Technologies for Reducing Decompression Obligation and Risk. (PI Richard Moon, MD). \$642,882. 7/1/18-6/30/21.

NIH SUBK9082CSPR-001/1U01-NS095926-01A13. Hyperbaric Oxygen Brain Injury Treatment (HOBIT) Trial Investigator (PI Luke James, MD). 9/30/2017-9/29/2022.

US Naval Sea Systems Command. N00024-18-C-4315. Ketogenic Diet for Reduction of CNS Oxygen Toxicity Symptoms in Working Divers. Investigator. Co-I (PI Bruce Derrick, MD). 10/31/1017-10/30/2020.

NIH 5110555/1R01-CA232148-01. Treating Hypoxia via Tumorally Directed Oxygen for Improving Radiation Therapy. Co-I (PI Greg Palmer, PhD). 6/30/2018-5/31/2023.

US Naval Sea Systems Command. N00024-19-C-4301. Sildenafil for Prevention of Immersion Pulmonary Edema. (PI Richard Moon, MD). \$299,115. 1/25/2019-1/24/2021.

Office of Naval Research. N00014-19-1-2369. STEM Outreach Program: Design of a Passive Water Sampler to Test Dive Sites Suspected to be Contaminated. (PI Richard Moon), MD. \$85,362. 05/01/2019-12/30/2019.

Office of Naval Research. Automated detection of venous gas emboli on ultrasound recordings. Co-I (PI Virginie Papadopoulou). 01/01/2020 to 12/31/2022.

US Naval Sea Systems Command. Perfluoromethane to Reduce Decompression Sickness after Heliox Dives. (PI Richard Moon, MD). \$526,373. Submitted. 3/1/2021-2/28/2023.

Selected Invited presentations:

Wilderness Medical Society, Kona, HI. Invited speaker: February, 1993.

New Mexico Thoracic Society, Taos, NM. Invited speaker: March, 1993.

Advanced Training Seminar, Richland Memorial Hospital, University of South Carolina School of Medicine, Columbia, SC. Invited speaker: April, 1993.

University of Erlangen, Erlangen, Germany. Invited speaker: May, 1993.

Society of Critical Care Medicine Annual Meeting, New York, NY. Invited speaker: June, 1993.

Duke University Medical Center Division of Pediatric Pulmonary Diseases and Gastroenterology. 20th Postgraduate Course, Durham, NC. Invited speaker: November, 1993.

University of Alberta Dept. of Anesthaesia, Banff, Alberta. Invited Speaker: June, 1994.

Society for Technology in Anesthesia, San Diego, CA Invited Speaker: Jan, 1996

US Navy Diving Medical Officers Advanced Course, Norfolk, VA. Invited Speaker: Mar, 1996

European Consensus Conference, Marseille, France. Invited Speaker: May, 1996

Advanced Diving Medical Officers Course, Defence & Civil Institute for Environmental Medicine, Toronto, Canada. Invited Speaker: May, 1996

Critical Care Grand Rounds, Duke Medical Center. Invited speaker: Feb, 1996.

Radiology Grand Rounds, Duke Medical Center. Invited speaker: June, 1996.

Infectious Diseases Grand Rounds, Duke Medical Center. Invited speaker: June, 1996.

DAN Course on Diving Medicine (Duke CME Program). Invited speaker: Aug, 1996.

South Pacific Underwater Medicine Society Annual Meeting, Bay of Islands, New Zealand. Invited Speaker: April, 1997.

Advanced Diving Medical Officers Course, Defence & Civil Institute for Environmental Medicine, Toronto, Canada. Invited Speaker: May, 1997 and 1998.

Diving Medicine Course, National Oceanic & Atmospheric Administration, Virginia Inst of Marine Science, Gloucester Point VA. Invited Speaker: August, 1997.

Otolaryngology, Head & Neck Surgery Grand Rounds, Duke Medical Center. Invited speaker: November, 1997.

American Thoracic Society, Chicago, IL. Invited Speaker, Annual Scientific Meeting, April, 1998.

Advanced Diving Medical Officers Course, Defence & Civil Institute for Environmental Medicine, Toronto, Canada. Invited Speaker: May, 1998.

General Surgery Grand Rounds, Duke Medical Center. Invited Speaker, July, 1998.

Division of Urology Grand Rounds, Duke Medical Center. Invited Speaker, July, 1998.

XIII Congress of the Italian Society of Subaquatic and Diving Medicine, Parma, Italy. Invited Speaker, November, 1998.

South Pacific Underwater Medicine Society Annual Meeting, Layang Layang, Malaysia. Invited Speaker: May, 1999.

Swiss Society of Anesthesia Jahreskongress, Interlaken, Switzerland. Invited Speaker: November, 1999.

Division of Pediatric Neuro-Oncology. Invited Speaker: December, 1999.

Dept. of Medicine Grand Rounds, Duke Medical Center. Invited Speaker: January, 2000.

Advanced Diving Medical Officers Course, Defence & Civil Institute for Environmental Medicine, Toronto, Canada. Invited Speaker: April, 2000.

Aerospace Medical Association, Houston, TX. Invited Speaker: May, 2000.

Australian and New Zealand College of Anaesthetists/Australian Society of Anesthetists, Adelaide, Australia. Invited Speaker: August, 2000.

Societa Italiana di Medicina Subacquea ed Iperbarica, Naples, Italy. Invited Speaker: October, 2000.

Advanced Diving Medical Officers Course, Defence & Civil Institute for Environmental Medicine, Toronto, Canada. Invited Speaker: May, 2001.

American Society of Anesthesiologists, New Orleans, LA. Symposium on Hyperbaric Medicine. October 15th, 2001.

Diving Medicine Course, US Navy Dive School, Panama City, FL. Invited Speaker: November, 2001.

Advanced Diving Medical Officers Course, Defence & Civil Institute for Environmental Medicine, Toronto, Canada. Invited Speaker: May, 2002.

Societa Italiana di Medicina Subacquea ed Iperbarica, Palermo, Italy. Invited Speaker: September, 2002.

Respiratory Care Symposium, Duke University Medical Center. Invited Speaker, November, 2002.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2003.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2004.

Società Italiana di Medicina Subacquea ed Iperbarica, Capri, Italy. Invited Speaker: September, 2004.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2005.

Diving Medicine Course, US Navy Dive School, Panama City, FL. Invited Speaker: October, 2005.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: April, 2006.

Anesthesia Patient Safety Foundation Workshop on PCA, Chicago IL: September, 2006.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2007.

Società Italiana di Medicina Subacquea ed Iperbarica, Fidenza, Italy. Invited Speaker: December, 2007.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: April, 2008.

South Pacific Underwater Medicine Society Annual Meeting, Wallindi, Papua New Guinea. Invited
Speaker: May, 2008.

Società Italiana di Medicina Subacquea ed Iperbarica, Fidenza, Italy. Invited Speaker: November, 2008.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: April, 2009.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: April, 2010.

Visiting Professor, Anesthesiology Grand Rounds. Dept. of Anesthesiology and Critical Care Medicine,
Johns Hopkins Medicine, Baltimore, MD: November, 2010.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: April, 2011.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2012.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2013.

First Annual Duke Sports Cardiology & Sudden Death in Athletes Summit. Invited Speaker: April, 2014.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2014.

Second Annual Duke Sports Cardiology & Sudden Death in Athletes Summit. Invited Speaker: March, 2015.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada.
Invited Speaker: May, 2015.

Panel Moderator and Speaker. Everything you Think You Know About Breathing - But Do You? Respiratory Physiology for Anesthesiologists. American Society of Anesthesiologists Annual Meeting, 2015.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada. Invited Speaker: June, 2016.

Japanese Society of Medical Gases. Invited Speaker: October, 2016.

Panel Moderator and Speaker. Hypoxia and Hyperoxia in Clinical Care: New Paradigms from Mount Everest and Deep Diving. American Society of Anesthesiologists Annual Meeting, 2016.

Mayo Clinic Scottsdale, AZ. Invited Speaker: November, 2016.

Società Italiana di Medicina Subacquea ed Iperbarica, Salsomaggiore, Italy. Invited Speaker: May, 2017.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada. Invited Speaker: June, 2017.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada. Invited Speaker: June, 2018.

Advanced Diving Medical Officers Course, Defence Research and Development Canada, Toronto, Canada. Invited Speaker: June, 2019.

Visiting Professor, Department of Medicine, University of Texas Southwestern; RL Johnson Lectureship: September, 2019.

Panel Moderator. Diagnosing acid-base disorders: Drs. Henderson, Hasselbalch, and Stewart can all work together! American Society of Anesthesiologists Annual Meeting, 2019.

Speaker. pH Changes: Effects on Cell and Organ Function, and Importance in Clinical Medicine. American Society of Anesthesiologists Annual Meeting, 2019.

Speaker. "Bends – the Curse of Divers": History, Pathophysiology and Treatment. Royal Society of Medicine: November 18, 2019.

Panel Moderator. "Diagnosing acid-base disorders: Drs. Henderson, Hasselbalch, and Stewart can all work together!" American Society of Anesthesiologists Annual Meeting, 2020.

Speaker. "pH Changes: Effects on Cell and Organ Function, and Importance in Clinical Medicine". American Society of Anesthesiologists Annual Meeting, 2020.

Speaker. "Pragmatism and Controversy: Bedside Stewart Acid-Base Approach to Diagnosis and Treatment of Acidosis in Clinical Practice". American Society of Anesthesiologists Annual Meeting, 2020.

Other duties:9

Program Co-Chairman, Annual Meeting, Undersea & Hyperbaric Medical Society, Halifax, NS, Canada, July, 1993.

President, Undersea & Hyperbaric Medical Society, 1994-96.

Chairman of the Board of Directors, Research Foundation, Undersea and Hyperbaric Medical Society, 1999-present.

Chairman, DCI Adjunctive Therapy Committee, Undersea and Hyperbaric Medical Society, 1999-present.

Chairman, Respiratory Status Monitoring Subcommittee, Duke University Medical Center, 2005-2010.

Chairman, Hyperbaric Oxygen Therapy Committee, Undersea and Hyperbaric Medical Society, 2015-2019.

Community service:

Mentorship Program, North Carolina School of Science and Mathematics, 1990-5.

Academic Committee, Board of Trustees, Durham Academy, 1994-5.

Medical Adviser, Christian Emergency Relief Teams, 1996-2001.

Medical Mission to Urubamba River Region, Peru, June, 1996.

Medical Mission to Burtibang, Nepal, June, 1999.

Medical Mission to Tibet and Manchuria, China, 2001.

North Carolina State Medical Assistance Team, 2010-present.