

CURRICULUM VITAE

09 December 2015

Peter C. Rowe

DEMOGRAPHIC INFORMATION

Current Appointments:

Sunshine Natural Wellbeing Foundation Professor of Chronic Fatigue and Related Disorders, Department of Pediatrics, Johns Hopkins University School of Medicine.

Professor of Pediatrics, Johns Hopkins University School of Medicine.

Director, Chronic Fatigue Clinic, Johns Hopkins Children's Center.

Personal Data:

Office: 200 N. Wolfe St., Room 2077; Baltimore, MD 21287

Tel: 410-955-9229; Fax: 410-614-1178

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Education and Training:

B.A., Honours 1978 Trinity College, University of Toronto, Canada; Liberal Arts

M.D. 1981 McMaster University Medical School, Hamilton, Ontario, Canada

Residency 1981-4 Department of Pediatrics, Johns Hopkins University School of Medicine

Fellowship 1984-86 Robert Wood Johnson General Pediatric Academic Development Program, Johns Hopkins University School of Medicine

Chief Resident 1986-7 Department of Pediatrics, Johns Hopkins University School of Medicine

Professional Experience:

Assistant Professor (Pediatrics)	Univ of Ottawa School of Medicine	1987-91
Member, active staff	Children's Hospital of Eastern Ontario, Ottawa, Canada	1987-91
Assistant Professor (Epidemiology and Community Medicine, and Pediatrics)	Univ of Ottawa School of Medicine, Ottawa, Canada	1988-91
Career Scientist	Ministry of Health of Ontario	1988-91
Associate Director for Medical Education	Department of Pediatrics, Johns Hopkins University School of Medicine	1991-95
Director, Diagnostic Referral Clinic	Department of Pediatrics, Johns Hopkins Children's Center	1991-97
Assistant Professor	Department of Pediatrics, Johns Hopkins University School of Medicine	1991-93
Associate Professor	Department of Pediatrics, Johns Hopkins University School of Medicine	1993-99
Co-Director, Chronic Fatigue Tilt Testing Program	Johns Hopkins Hospital	1995-2000
Director, Chronic Fatigue Clinic	Johns Hopkins Children's Center	1997-
Professor	Department of Pediatrics, Johns Hopkins University School of Medicine	1999-
	Inaugural Sunshine Natural Wellbeing Foundation Professor of Chronic Fatigue and Related Disorders	2006-

RESEARCH ACTIVITIES

Publications:

Peer-reviewed original research articles:

1. **Rowe PC**, Newman SL, Brusilow SW. Natural history of symptomatic partial ornithine transcarbamylase deficiency. *N Engl J Med* 1986; 314: 541-7.
2. **Rowe PC**, Valle D, Brusilow SW. Inborn errors of metabolism in children referred with Reye's syndrome: a changing pattern. *JAMA* 1988; 260: 3167-70.
3. **Rowe PC**, McLean RH, Wood RA, Leggiardro RJ, Winkelstein JA. Association of homozygous C4B deficiency with bacterial meningitis. *J Inf Dis* 1989;160:448-51.
4. **Rowe PC**, McLean RH, Ruley EJ, Salcedo JR, Baumgardner RA, Zaugg B, Mellits ED, De Angelis C. Intravenous immunoglobulin in childhood nephrotic syndrome: a crossover trial. *Pediatr Nephrol* 1990;4:32-35.
5. Klassen TP, **Rowe PC**, Sutcliffe T, Ropp LJ, McDowell IW, Li MM. Randomized trial of salbutamol in acute bronchiolitis. *J Pediatr* 1991;118:807-811.
6. **Rowe PC**, Walop W, Lior H, Mackenzie AM. Hemolytic anemia after childhood E. coli 0157:H7 infection: are females at increased risk? *Epidemiol Infect* 1991;106:523-30.
7. **Rowe PC**, Orrbine E, Wells GA, McLaine PM. Epidemiology of childhood hemolytic uremic syndrome in Canadian children from 1986 to 1988. *J Pediatr* 1991;119:218-24.
8. **Rowe PC**, Quinlan A, Luke BK. Value of degenerative change in neutrophils as a diagnostic test for Kawasaki disease. *J Pediatr* 1991;119:370-4.
9. Anquist KW, Panchanathan S, **Rowe PC**, Peterson RG, Sirnick A. Diagnostic delay after dimenhydrinate use in vomiting children. *Can Med Assoc J* 1991;145:965-8.
10. Schlieper A, **Rowe PC**, Orrbine E, Zoubek M, Clark W, Wolfish N, McLaine PN. Sequelae of haemolytic uraemic syndrome. *Arch Dis Child* 1992;67:930-4.
11. Evans J, **Rowe PC**, Davidson S. Misdirected attachment behaviour--an unusual outcome of repeated hospitalization? *Can J Psychiatry* 1992;37:412-6.
12. Klassen TP, **Rowe PC**. Selecting diagnostic tests to identify febrile infants less than 3 months of age as being at low risk for serious bacterial infection: a scientific overview. *J Pediatr* 1992;121:671-6.
13. **Rowe PC**, Gearhart JP. Retraction of the umbilicus during voiding as an initial sign of a urachal anomaly. *Pediatrics* 1993;91:153-4.
14. **Rowe PC**, Orrbine E, Lior H, Wells GA, McLaine PN. A prospective study of exposure to verotoxin-producing Escherichia coli among Canadian children with haemolytic uraemic syndrome. *Epidemiol Infect* 1993;110:1-7.
15. **Rowe PC**, Orrbine E, Lior H, Wells GA, McLaine PN. Diarrhoea in close contacts as a risk factor for childhood haemolytic uraemic syndrome. *Epidemiol Infect* 1993;110:9-16.
16. Ciarallo LR, **Rowe PC**. Lumbar puncture in children with periorbital and orbital cellulitis. *J Pediatr* 1993;122:355-9.
17. Klassen TP, **Rowe PC**, Gafni A. Economic evaluation of intravenous immune globulin therapy for Kawasaki syndrome. *J Pediatr* 1993;122:538-42.
18. Langner NR, **Rowe PC**, Davies R. The next generation: poor compliance with risk factor

- guidelines in the children of parents with premature coronary heart disease. *Am J Pub Health* 1994;84:68-71.
19. **Rowe PC**, Orrbine E, Ogborn M, et al. Epidemic Escherichia coli O157:H7 gastroenteritis and hemolytic uremic syndrome in a Canadian Inuit community: intestinal illness in family members as a risk factor. *J Pediatr* 1994;124:21-6.
 20. Klassen TP, Feldman ME, Watters LK, Sutcliffe T, **Rowe PC**. Nebulized budesonide for children with mild-to-moderate croup. *N Engl J Med* 1994;331:285-9.
 21. Jimenez C, **Rowe PC**, Keene D. Cardiac and central nervous system vasculitis in a child with dermatomyositis. *J Child Neurol* 1994;9:297-300.
 22. **Rowe PC**, Bou-Holaigah I, Kan JS, Calkins HG. Is neurally mediated hypotension an unrecognized cause of chronic fatigue? *Lancet* 1995;345:623-4.
 23. **Rowe PC**. E. coli O157:H7, other verotoxin-producing E. coli, and the hemolytic uremic syndrome in childhood. Statement for the Canadian Pediatric Society. *Can J Infect Dis* 1995;6:105-110.
 24. Armstrong GD, **Rowe PC**, Goodyer P, et al. A phase I study of chemically synthesized Verotoxin (Shiga-like toxin) Pk-trisaccharide receptors attached to Chromosorb for preventing hemolytic-uremic syndrome. *J Inf Dis* 1995;171: 1042-5.
 25. Bou-Holaigah I, **Rowe PC**, Kan J, Calkins H. The relationship between neurally mediated hypotension and the chronic fatigue syndrome. *JAMA* 1995;274:961-7.
 26. Kelly KJ, Lazenby AJ, **Rowe PC**, Yardley JH, Perman JA, Sampson HA. Eosinophilic esophagitis attributed to gastroesophageal reflux: improvement with an amino acid-based formula. *Gastroenterology* 1995;109:1503-12.
 27. Klassen TP, Watters LK, Sutcliffe T, **Rowe PC**. The efficacy of nebulized budesonide in dexamethasone-treated outpatients with croup. *Pediatrics* 1996;97:463-6.
 28. Bou-Holaigah I, Calkins H, Flynn J, Tunin C, Chang H, Kan J, **Rowe PC**. Provocation of hypotension and pain during upright tilt table testing in adults with fibromyalgia. *Clin Experimental Rheumatol* 1997;15:239-46.
 29. Talo H, Yataco A, **Rowe PC**, Bou-Holaigah I, Kan J, Kass DA, Berger RA, Calkins H. Comparison of heart rate variability in patients with chronic fatigue syndrome and controls. *Clin Autonomic Res* 1997; 7:293-7.
 30. **Rowe PC**, Orrbine E, Lior H, Wells GA, Yetisir L, Clulow M, McLaine PN. Risk of hemolytic uremic syndrome after sporadic Escherichia coli O157:H7 infection: results of a Canadian collaborative study. *J Pediatr* 1998;132:777-82.
 31. Klassen TP, Craig WR, Moher D, Osmond MH, Pasterkamp H, Sutcliffe T, Watters LK, **Rowe PC**. Nebulized budesonide and oral dexamethasone for the treatment of croup: a randomized controlled trial. *JAMA* 1998;279:1629-32.
 32. Mackenzie AMR, Lebel P, Orrbine E, **Rowe PC**, Hyde L, Chan F, Johnson W, McLaine PN. Sensitivities and specificities of *Premier E. coli O157* and *Premier EHEC* enzyme immunoassays for diagnosis of infection with Verotoxin (Shiga-like toxin)-producing *Escherichia coli*. *J Clin Microbiol* 1998; 36:1608-11.

33. Ogborn MR, Hamiwka L, Orrbine E, Newburg DS, Sharma A, McLaine PN, Orr P, **Rowe P**. Renal function in Inuit survivors of epidemic hemolytic-uremic syndrome. *Pediatr Nephrol* 1998;12:485-8.
34. **Rowe PC**, Calkins H. Neurally mediated hypotension and chronic fatigue syndrome. *Am J Med* 1998;105:15S-21S.
35. Schlieper A, Orrbine E, Wells GA, Clulow M, McLaine PN, **Rowe PC**, and the investigators of the HUS Cognitive Study. Neuropsychological sequelae of haemolytic uraemic syndrome. *Arch Dis Child* 1999;80:214-20.
36. Birdi N, Klassen TP, Quinlan A, Clarke W, Hosking M, Momy JA, **Rowe PC**. Role of the toxic neutrophil count in the early diagnosis of Kawasaki disease. *J Rheumatology* 1999;26:904-8.
37. Bernard D, Goepf J, Duggan A, Serwint J, **Rowe PC**. Is oral albuterol effective for acute cough in non-asthmatic children? *Acta Paediatr Scand* 1999;88:465-7.
38. Atiga WL, **Rowe P**, Calkins H. Management of vasovagal syncope. *J Cardiovasc Electrophys* 1999;10:874-86.
39. **Rowe PC**, Barron DF, Calkins H, Maumenee IH, Tong PY, Geraghty MT. Orthostatic intolerance and chronic fatigue syndrome associated with Ehlers-Danlos syndrome. *J Pediatr* 1999;135:494-9.
40. **Rowe PC**, Barron DF, Calkins H, Maumenee IH, Tong PY, Geraghty MT. Ehlers-Danlos syndrome. *J Pediatr* 1999;135:513.
41. Litalien C, Proulx F, Mariscalco MM, Robitaille P, Turgeon JP, Orrbine E, **Rowe PC**, McLaine PN, Seidman E. Circulating inflammatory cytokine levels in hemolytic uremic syndrome. *Pediatr Nephrol* 1999;13:840-5.
42. King WJ, Schlieper AS, Birdi N, Capelli M, Korneluk Y, **Rowe PC**. The effect of Kawasaki disease on cognition and behavior. *Arch Pediatr Adolesc Med* 2000;154:463-8.
43. **Rowe PC**, Calkins H, DeBusk K, McKenzie R, Anand R, Sharma G, Cuccherini BA, Soto N, Hohman P, Snader S, Lucas KE, Wolff M, Straus SE. Fludrocortisone acetate to treat neurally mediated hypotension in chronic fatigue syndrome: a randomized controlled trial. *JAMA* 2001;285:52-59.
44. Venbrux AC, Chang AH, Kim HS, Montague BJ, Hebert JB, Arepally A, **Rowe PC**, Barron DF, Lambert D, Robinson JC. Pelvic congestion syndrome (pelvic venous incompetence): impact of ovarian and internal iliac embolotherapy on menstrual cycle and chronic pelvic pain. *J Vasc Interv Radiol* 2002;13:171-8.
45. Serwint JR, Rutherford LE, Hutton N, **Rowe PC**, Barker S, Adamo G. "I learned that no death is routine": Description of a death and bereavement seminar for pediatrics residents. *Acad Med* 2002;77:278-84.
46. Hoke TR, Donohue PK, Bawa PK, Mitchell RD, Pathak A, **Rowe PC**, Byrne BJ. Oxygen saturation as a screening test for critical heart disease. *Pediatr Cardiol* 2002;23:403-9.
47. Barron DF, Cohen BA, Geraghty MT, Violand R, **Rowe PC**. Joint hypermobility is more common in children with chronic fatigue syndrome than in healthy controls. *J Pediatr* 2002;141:421-5.

48. Razumovsky AY, DeBusk K, Calkins H, Snader S, Lucas KE, Vyas P, Hanley DF, **Rowe PC**. Cerebral and systemic hemodynamics changes during upright tilt in chronic fatigue syndrome. *J Neuroimaging* 2003;13:57-67.
49. Lucas KE, **Rowe PC**, Coresh J, Klag MJ, Meoni LA, Ford DE. Prospective association between hypotension and idiopathic chronic fatigue. *J Hypertension* 2004;22:691-5.
50. Sullivan SD, Hanauer J, **Rowe PC**, Barron DF, Darbari A, Oliva-Hemker M. Gastrointestinal symptoms associated with orthostatic intolerance. *JPGN* 2005;40:425-8.
51. Lucas KE, Armenian H, DeBusk K, Calkins H, **Rowe PC**. Characterizing Gulf War illnesses: neurally mediated hypotension and postural tachycardia syndrome. *Am J Med* 2005;118:1421-27.
52. Kim HS, Malhotra AD, **Rowe PC**, Lee JM, Venbrux AC. Embolotherapy for pelvic congestion syndrome: long-term results. *J Vasc Interv Radiol* 2006;17:289-97.
53. Lucas KE, Armenian HK, Petersen GM, **Rowe PC**. Familial aggregation of fainting in a case-control study of neurally mediated hypotension patients who present with unexplained chronic fatigue. *Europace*. 2006;8:846-51.
54. Olaniyan O, dosReis S, Garriett V, Mychailyszyn MP, Anixt J, **Rowe PC**, Cheng TL. Community perspectives of childhood behavioral problems and ADHD among African American parents. *Ambulatory Pediatrics* 2007;7:226-231.
55. Lucas KE, **Rowe PC**, Armenian HK. Latency and exposure-health associations in Gulf War Veterans with early fatigue onsets: a case-control study. *Ann Epidemiol*. 2007;17:799-806.
56. Terlou A, Ruble K, Stapert AF, Chang HC, **Rowe PC**, Schwartz CL. Orthostatic intolerance in survivors of childhood cancer. *Eur J Cancer*. 2007;43:2685-90.
57. Kuo DZ, Cheng TL, **Rowe PC**. Successful use of a primary care practice-subspecialty collaboration in the care of an adolescent with chronic fatigue syndrome. *Pediatrics* 2007;120:e1536-e1539.
58. McLaine PN, **Rowe PC**, Orrbine E. Experiences with HUS in Canada: what have we learned in Canada? *Kidney International* 2009;112:S25-28.
59. Aucott J, Morrison C, Munoz B, **Rowe PC**, Schwarzwalder A, West SK. Diagnostic challenges of early Lyme disease: Lessons from a community case series. *BMC Infectious Diseases* 2009;9:79.
60. Garg A, Trent ME, Strouse JJ, Mitchell SE, **Rowe PC**. Delayed diagnosis of iliac vein thrombus in a sexually-active adolescent with Klippel-Trénaunay syndrome. *J Pediatr Adolesc Gynecol* 2009; 22:e29-32.
61. Mack KJ, Johnson JN, **Rowe PC**. Orthostatic intolerance and the headache patient. *Seminars in Pediatric Neurology* 2010;17:109-16.
62. Fortunato JE, Shaltout HA, Larkin MM, **Rowe PC**, Diz DI, Koch KL. Fludrocortisone improves nausea in children with orthostatic intolerance (OI). *Clin Auton Res* 2011; 21:419-23.
63. **Rowe PC**, Fontaine KR, Violand RL. Neuromuscular strain as a contributor to cognitive and other symptoms in chronic fatigue syndrome. *Frontiers in Integrative Physiology* 2013; *Front Physiol* 2013;4:115. doi: 10.3389/fphys. 2013.00115
64. Ross AJ, Medow MS, **Rowe PC**, Stewart JM. What is brain fog? An evaluation of the symptom in postural tachycardia syndrome. *Clin Auton Res* 2013;23:305–311

65. Sulheim D, Fagermoen E, Winger A, Andersen AM, Godang K, Müller F, **Rowe PC**, Saul JP, Skovlund E, Øie MG, Wyller VB. Disease mechanisms and clonidine treatment in adolescent chronic fatigue syndrome: a combined cross-sectional and randomized controlled trial. *JAMA Pediatrics* 2014; 168(4):351-360.
66. **Rowe PC**, Marden CL, Flaherty M, Jasion SE, Cranston EM, Johns AS, Fan J, Fontaine KR, Violand RL. Impaired range of motion of limbs and spine in chronic fatigue syndrome. *J Pediatrics* 2014;165:360-6.
67. Fagermoen E, Sulheim D, Winger A, Andersen AM, Gjerstad J, Godang K, **Rowe PC**, Saul JP, Skovlund E, Wyller VB. Effects of low-dose clonidine on cardiovascular and autonomic variables in adolescents with chronic fatigue: a randomized controlled trial. *BMC Pediatrics* 2015;15:117

Review articles:

1. Solomon B, McGuinn L, Hoerlein M, Basco W, **Rowe P**, Lehmann. Evidence-based journal club: Is human immunodeficiency virus sexual risk prevention intervention effective? *Arch Pediatr Adolesc Med* 2001;155:1127-1130.
2. King TM, Alperovitz-Bichell K, **Rowe PC**, Lehmann HP. Is epinephrine efficacious in the treatment of bronchiolitis? *Arch Pediatr Adolesc Med* 2003;157:965-8.
3. Hernandez RG, **Rowe PC**. Research and statistics: cohort studies. *Pediatr Rev* 2009;30:364-5.
4. Tschudy MM, **Rowe PC**. Research and statistics: number needed to treat and intention to treat analysis. *Pediatr Rev* 2010;31:380-2.
5. Carvajal DN, **Rowe PC**. Sensitivity, specificity, predictive values, and likelihood ratios. *Pediatr Rev* 2010;31:511-13.
6. Crewe S, **Rowe PC**. Research and statistics: likelihood ratios in diagnosis. *Pediatr Rev* 2011;32:296-8.
7. Briccetti C, **Rowe PC**. Research and statistics: searching for answers: strategies for searching the clinical literature. *Pediatr Rev* 2011;32:350-2.

Editorials:

1. **Rowe PC**, Klassen TP. Steroids and croup: reconciling town and gown. *Arch Pediatr Adol Med* 1996;150:344-6. Editorial.
2. Klassen TP, **Rowe PC**. Outpatient management of croup. *Curr Opin Pediatr* 1996;8:449-52.
3. **Rowe PC**. Orthostatic intolerance and chronic fatigue syndrome: new light on an old problem. *J Pediatr* 2002;140:387-9.

Letters, correspondence:

1. **Rowe PC**. Possible association of measles virus infection with rheumatic fever. *New Engl J Med* 1985;313:580-1.
2. **Rowe PC**, Lucas KE. Orthostatic intolerance in chronic fatigue syndrome. *Am J Med* 2007;120:e13.

Book chapters, monographs:

1. **Rowe PC**. Poisoning. In Cole C, ed. *The Harriet Lane Handbook*, 10th Edition. Chicago:

- Year Book Medical Publishers, Inc., 1984.
2. **Rowe PC**. Procedures. In Oski FA, ed. The principles and practice of pediatrics. Philadelphia: J.B. Lippincott Co, 1990.
 3. **Rowe PC**. Normal values. In Oski FA, ed. The principles and practice of pediatrics. Philadelphia: J.B. Lippincott Co, 1990.
 4. McLaine PN, Orrbine E, **Rowe PC**. Childhood hemolytic uremic syndrome in Canada: a multicentre study. In Kaplan BS, Trompeter RS, Moake JL, eds. Hemolytic uremic syndrome and thrombotic thrombocytopenic purpura. New York: Marcel Dekker, Inc., 1992.
 5. Armstrong GD, **Rowe PC**, Orrbine E, et al. Results of a phase 1 study into the use of Synsorb-Pk for preventing hemolytic uremic syndrome. In Karmali MA, Goglio AG, eds. Recent advances in verocytotoxin-producing Escherichia coli infections. Amsterdam: Elsevier, 1994:381-4.
 6. **Rowe PC**. Procedures. In Oski FA, ed. The principles and practice of pediatrics, 2nd ed. Philadelphia: J.B. Lippincott Co, 1994.
 7. **Rowe PC**. Normal values. In Oski FA, ed. The principles and practice of pediatrics, 2nd ed. Philadelphia: J.B. Lippincott Co, 1994.
 8. Calkins H, **Rowe PC**. Neurally mediated hypotension and the chronic fatigue syndrome. In: Grubb BP, Olshansky B, eds. Syncope: mechanisms and management. Armonk, NY: Futura Publishing Co, Inc, 1998.
 9. Armstrong GD, McLaine PN, **Rowe PC**. Clinical trials of Synsorb-Pk in preventing HUS. In Kaper JB, O'Brien AD, eds. Escherichia coli O157:H7 and other Shiga toxin-producing E. coli strains. Washington: ASM Press, 1998: 374-84.
 10. Barone MA, **Rowe PC**. Pediatric procedures. In McMillan JA, ed. Oski's Pediatrics: principles and practice, 3rd ed. Philadelphia: Lippincott Williams & Wilkins, 1999.
 11. Grubb BP, Calkins H, **Rowe PC**. Postural tachycardia, orthostatic intolerance, and the chronic fatigue syndrome. In Grubb BP, Olshansky B. Syncope: Mechanisms and management 2nd ed. Malden, MA: Blackwell Futura, 2005:225-44.
 12. **Rowe PC**. Craniocervical abnormalities presenting with circulatory dysfunction and fatigue. In Batzdorf, U, Benzel EC, Henderson FC Sr. Basilar Impression and Cervical Instability: Chiari Syringomyelia Foundation Colloquium Proceedings, October 19, 2013/ Chiari & Syringomyelia Foundation, Inc: Staten Island, NY 2103.
 13. Beyond Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: Redefining an Illness. Committee on the Diagnostic Criteria for Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. Institute of Medicine. Washington, D.C.: The National Academies Press, February 10, 2015.
 14. **Rowe PC**. Orthostatic intolerance in the setting of cerebellar tonsillar ectopia. In Batzdorf, U, Henderson FC Sr., Rigamonti D. Co-morbidities that can complicate the treatment and outcomes of Chiari Malformation. 2014 Chiari Syringomyelia Foundation Colloquium Proceedings. Chiari & Syringomyelia Foundation, Inc: Staten Island, NY 2105.

Books, Textbooks:

1. **Rowe PC**, ed. The Harriet Lane Handbook, 11th ed. Chicago: Year Book Medical

Publishers, Inc., 1987.

Non-peer reviewed articles:

1. Calkins H, **Rowe PC**. Relationship between chronic fatigue syndrome and neurally mediated hypotension. *Cardiol in Rev* 1998;6:125-34. [Same article also reprinted in *Infect Dis Clin Practice* 1998;7:312-21]
2. McLean RH, **Rowe PC**. Hemolytic uremic syndrome. Pamphlet to encourage recognition of HUS, distributed to Maryland pediatricians, 1995.
3. **Rowe PC**. Physical maneuvers for reducing symptoms during upright posture in those with CFS. *Youth Allied by CFIDS* 1997;3:5.
4. **Rowe PC**. Neurally mediated hypotension and related abnormalities of orthostatic tolerance in chronic fatigue syndrome. In: Roberts TK, ed. *Clinical and scientific basis of chronic fatigue syndrome. Proceedings of the International Meeting, Sydney, Australia, 11-12 February 1998*:8-15.
5. **Rowe PC**, Kelly KJ, Barron D, Snader S, DeBusk K, Kan JS, Bou-Holaigah I, Flynn J, Geraghty M, Calkins H. New insights in the treatment of orthostatic intolerance in chronic fatigue syndrome. In: Roberts TK, ed. *Clinical and scientific basis of chronic fatigue syndrome. Proceedings of the International Meeting, Sydney, Australia, 11-12 February 1998*:80-88.
6. Chronic fatigue syndrome: can it be treated? Panel discussion with BH Natelson, D Bell, AC Chester, PH Levine, **PC Rowe**. In *Medical Crossfire* 1999;1:37-45.

Other Media:

1. CFIDS Association of America Webinar, Managing Orthostatic Intolerance, 1 Sept 2010 [available on http://www.youtube.com/watch?v=5iF30TVLaRE&playnext=1&list=PLCDC685DB095C02DC&feature=results_video] 24,293 views as of 3 December 2015
2. CFIDS Association of America web article on Manual Therapy in CFS (2013):
<http://www.research1st.com/2013/01/25/manual-therapy-1-of-2/>
<http://www.research1st.com/2013/02/01/manual-therapy-2-of-2/>
3. A Case-Based Approach to Chronic Fatigue Syndrome, CDC/Medscape video, released 19 April 2013.

4. Chiari Syringomyelia Foundation Meeting, July 17,2013. “Dysautonomia & Postural Orthostatic Tachycardia in the Chiari/EDS Population.” Available on:

<http://www.youtube.com/watch?v=UCbWEKQHjdk> 5,398 views as of 3 December 2015

5. EDS Awareness Educational Series Webinar, Managing Orthostatic Intolerance in Ehlers-Danlos Syndrome, July 16, 2014

<http://www.chronicpainpartners.com/doctor-speaker-series-july-16-2014-2/>

<https://www.youtube.com/watch?v=lkfrP8ds1J4> 1,105 views as of 3 December 2015

6. Solve CFS Guest Blog

Is The Physical Examination Normal in CFS? Part 1 (posted 5 Sept 2014)

<http://solvecfs.org/guest-blog-dr-peter-rowe-is-the-physical-examination-normal-in-cfs-part-1/>

Is The Physical Examination Normal in CFS? Part 2 (posted 9 Sept 2014)

<http://solvecfs.org/guest-blog-dr-peter-rowe-is-the-physical-examination-normal-in-cfs-part-2/>

Is The Physical Examination Normal in CFS? Part 3 (posted 11 Sept 2014)

<http://solvecfs.org/guest-blog-dr-peter-rowe-is-the-physical-examination-normal-in-cfs-part-3/>

7. Ehlers Danlos National Foundation/Dysautonomia International webinar, Connecting the Dots Between EDS and POTS, Ehlers Danlos syndrome, 9 October 2014

<https://www.youtube.com/watch?v=srUJRRihvsE> 6,248 views as of 3 December 2015

8. Solve ME/CFS Initiative Webinar, Neuromuscular Strain in ME/CFS, 23 October 2014

http://www.youtube.com/watch?v=YnCcEoFSgvc&feature=youtu.be&utm_source=getresponse&utm_medium=email&utm_campaign=research_1st&utm_content=Research+1st+News+%7C+October+2014 1,279 views as of 3 December 2015

9. Solve ME/CFS Initiative, Inducing Post-Exertional Malaise: A Look at the Research Evidence, Webinar, 16 July 2015

<https://www.youtube.com/watch?v=ux93w7yGQ5g> 1,648 views as of 3 December 2015

Inventions, Patents, Copyrights:

US Patent Number 5,849,714: Treatment of Bacterial Dysentery. Granted 15 Dec 1998.

Extramural Sponsorship:

Current:

1 R01 NRO12028-01 Trent (PI)
Reducing Racial/Ethnic Disparities in PID Morbidity in Young Women
Role: DSMB member

NorCAPITAL-project (The Norwegian Study of Chronic Fatigue Syndrome in Adolescents: Pathophysiology and Intervention Trial; ClinicalTrials ID: NCT01040429); PI: VB Wyller, University of Oslo)
My role: co-investigator
Percent effort: in kind.

MR/K020269/1 (PI: Dr Esther Crawley, University of Bristol)
Investigating the epidemiology of CFS/ME in children using the ALSPAC cohort.
Sponsor MRC, UK.
My role: CO-investigator
Percent effort: in kind

Previous:

1. Title: Infection in children attending daycare: assessing the risk.
Dates: 1988-1990
Sponsor: Ministry of Health of Ontario
Identification number: 02464F
Total direct cost: \$9,775.00
Current year direct cost: N/A
My role: Supervising the design, conduct, and analysis of the study
Percent effort: 20%
Principal investigator: Rowe PC.
Co-investigators: Dulberg C, MacDonald N, Dunkley G, Pennie R, Feldman W.
2. Title: The response of wheezing infants to salbutamol.
Dates: 1988-1990
Sponsor: Emergency Services Division, Ministry of Health of Ontario
Identification number: 01288N
Total direct cost: \$35,000.00
Current year direct cost: N/A
My role: Co-investigator, with contributions to the design and reporting of results, and primary responsibility for the analysis of data.
Percent effort: 20%
Principal investigator: Li M.
Co-investigators: Klassen T, Ropp L, Rowe PC, Brill-Edwards M, McDowell I.

3. Title: Cardiac risk factor management in the offspring of patients with premature ischemic heart disease.
Dates: 1990-1991
Sponsor: Merck-Frost Canada Inc
Identification number: N/A
Total direct cost: \$15,000.00
Current year direct cost: N/A
My role: Principal author of grant application and co-investigator in the study; this funding supported Dr. Langner's Master's thesis project.
Percent effort: 20%
Principal investigator: Langner N.
Co-investigators: Davies RF, Rowe PC.
4. Title: Degenerative changes in neutrophils as a screening test for Kawasaki disease.
Dates: 1990-1991
Sponsor: Children's Hospital of Eastern Ontario Research Institute
Identification number: Not available.
Total direct cost: \$2,500.00
Current year direct cost: N/A
My role: Design, conduct, and analysis of the study
Percent effort: 10%
Principal investigator: Rowe PC.
Co-investigators: Quinlan A, Luke B.
5. Title: A collaborative prospective study of risk factors for the development of childhood hemolytic uremic syndrome in Canada: pilot study.
Dates: 1990
Sponsor: Children's Hospital of Eastern Ontario Research Institute
Identification number: 90/01S
Total direct cost: \$45,000
Current year direct cost: N/A
My role: Co-investigator and principal author of the grant, with primary roles in the design of the study, data analysis, and writing of study reports.
Percent effort: 20%
Principal investigator: McLaine PN.
Co-investigators: Rowe PC, O'Regan S, Wells G, Lior H.

6. Title: A collaborative prospective study of risk factors for the development of childhood hemolytic uremic syndrome in Canada: Main study.
Dates: 6/91-5/94
Sponsor: National Health Research and Development Program
Identification number: 6606-4519-54
Total direct cost: \$502,262.00
Current year direct cost: N/A
My role: Co-investigator and principal author of the grant, with primary roles in the design of the study, data analysis, and writing of study reports.
Percent effort: 20%
Principal investigator: McLaine PN
Co-investigators: Rowe PC, O'Regan S, Wells G, Lior H.

7. Title: Effects of the hemolytic uremic syndrome on cognitive, academic, and behavioural functioning: a pilot study.
Dates: 12/90-11/92
Sponsor: Children's Hospital of Eastern Ontario Research Institute
Identification number: 90/22S
Total direct cost: \$19,959.89
Current year direct cost: N/A
My role: Co-Principal investigator with Dr. Schlieper, with primary roles in the design of the study, and contributions to data analysis, and writing of study reports.
Percent effort: 10%
Principal investigator: Schlieper A and Rowe PC.
Co-investigators: Orrbine E, Clark W, Wolfish N, McLaine PM.

8. Title: A randomized trial of inhaled budesonide in mild-moderate croup.
Dates: 8/92-6/94
Sponsor: Ministry of Health of Ontario
Identification number: 04440
Total direct cost: \$47,156.59
Current year direct cost: N/A
My role: Principal author of the grant (submitted under Dr. Klassen's name after I had moved to Johns Hopkins) with primary roles in the design of the study, and contributions to data analysis and writing of study reports.
Percent effort: 10%
Principal investigator: Klassen T.
Co-investigators: Feldman M, Watters L, Sutcliffe T, Rowe PC.

9. Title: Effects of the hemolytic uremic syndrome on cognitive, academic, and behavioural function.
Dates: 4/93-3/95
Sponsor: National Health Research and Development Program
Identification number: 6606-5023-63A
Total direct cost: \$91,750.87
Current year direct cost: N/A
My role: Co-Principal investigator with Dr. Schlieper, with primary roles in the design of the study, and contributions to data analysis and writing of study reports.
Percent effort: 10%
Principal investigator: Schlieper A and Rowe PC.
Co-investigators: Wells G, Clark W, McLaine PN, Orrbine E, Wolfish N.
10. Title: Synsorb-Pk study: Phase 1 trial.
Dates: 6/1/93-3/31/94
Sponsor: Alberta Research Council
Identification number: Not available
Total direct cost: \$274,153.00
Current year direct cost: N/A
My role: Chair, study design committee, with primary responsibility for development of clinical trial protocol, contributions to data analysis, and primary responsibility for clinical trial component of the study reports.
Percent effort: 10%
Principal investigator: McLaine PN.
Co-investigators: Rowe PC, Orrbine E, Armstrong GA, and the Synsorb-Pk Study Group.
11. Title: Early detection of incomplete Kawasaki syndrome: role of the toxic neutrophil test.
Dates: 1993-1996
Sponsor: Children's Hospital of Eastern Ontario Research Institute
Identification number: 93/04S
Total direct cost: \$11,809.48
Current year direct cost: N/A
My role: Principal author of the grant (conducted in Ottawa under Dr. Birdi's supervision after I had moved to Johns Hopkins) with primary roles in the design of the study, and contributions to writing of study reports.
Percent effort: 5%
Principal investigator: Birdi N.
Co-investigators: Klassen T, Hosking M, Clarke W, Diaz-Mitoma F, Rowe PC.

12. Title: A trial of oral albuterol in acute cough in children.
Dates: 5/93-4/95
Sponsor: Thomas Wilson Foundation
Identification number:
Total direct cost: \$12,400.00
Current year direct cost: N/A
My role: Co-investigator, with the primary role for supervising the design and execution of Dr. Bernard's main Pediatric Emergency Fellowship project.
Percent effort: 5%
Principal investigator: Bernard D.
Co-investigators: Duggan A, Goepp J, Serwint J, Rowe PC.
13. Title: A trial of ranitidine for colic
Dates: 12/92-6/94
Sponsor: Pediatric Clinical Research Unit, Johns Hopkins Department of Pediatrics
Identification number: RPN # 92-12-14-01
Total direct cost:
Current year direct cost:
My role: Co-investigator, with the primary role for supervising the design and execution of Dr. Baldwin's main General Pediatric Academic Development Fellowship project.
Percent effort: 5%
Principal investigator: Baldwin RM
Co-investigators: DeAngelis C, Duggan A, Rowe PC.
14. Title: A randomized phase 2 trial of Synsorb-Pk to prevent hemolytic uremic syndrome in children with verotoxin-producing Escherichia coli gastroenteritis.
Dates: 6/1/94-3/31/96
Sponsor: Synsorb Biotech, Inc.
Identification number:
Total direct cost: \$1,257,772.20 [April 94-March 95: \$461,556, April 95-March 96, \$796,165.20]
Current year direct cost: N/A
My role: Chair, study design committee, with primary responsibility for development of study protocol, contributions to data analysis, and primary responsibility for study reports.
Percent effort: 30%
Principal investigator: McLaine PN
Co-investigators: the CPKDRC HUS Study Group

15. Title: Effects of Kawasaki syndrome on cognitive, academic, and behavioural functioning; a pilot study.
Dates: 6/94-5/95
Sponsor: Children's Hospital of Eastern Ontario Research Institute
Identification number: 94/22S
Total direct cost: \$20,000.00
Current year direct cost: N/A
My role: Co-investigator
Percent effort: 2%
Principal investigator: King J.
Co-investigators: Schlieper A, Birdi N, Cappelli M, Rowe PC.
16. Title: A randomized trial comparing dexamethasone, budesonide or budesonide and dexamethasone in mild-to-moderate croup patients.
Dates: 10/95-3/97
Sponsor: Ministry of Health of Ontario
Identification number: 10695N
Total direct cost: \$97,792.00
Current year direct cost: N/A
My role: Co-investigator
Percent effort: 5%
Principal investigator: Klassen TP
Co-investigators: Moher D, Watters LK, Osmond M, Rowe PC.
17. Title: A phase 3 randomized trial of Synsorb-Pk to prevent hemolytic uremic syndrome in children with VTEC gastroenteritis.
Dates: 4/1/96-3/31/98
Sponsor: Synsorb Biotech Inc.
Identification number:
Total direct cost: \$2,153,004.00 (Year 1: \$875,371; Year 2: \$1,277,633)
Current year direct cost: N/A
My role: Chair, study design committee, with primary responsibility for development of study protocol, contributions to data analysis, and main responsibility for interim analysis.
Percent effort: 30%
Principal investigator: McLaine PN
Co-investigators: The CPKDRC HUS Study Group

18. Title: Cerebral blood flow imaging in chronic fatigue syndrome.
Dates: 5/23/97 - 4/98
Sponsor: CFIDS Association of America
Identification number:
Total direct cost: \$36,000.00
Current year direct cost: N/A
My role: Supervisor of the design, conduct, and analysis of the study.
Percent effort: 10%
Principal investigator: Rowe PC.
Co-investigators: Calkins H, Razumovsky A, Frost JJ, Vyas P, Snader S, DeBusk K.
19. Title: A trial of fludrocortisone for chronic fatigue syndrome.
Dates: 4/1/96 - 8/31/99
Sponsor: NIH/NIAID
Identification number: 1 RO1 AI39500
Total direct cost: \$652,357 (includes direct costs of extension from 9/98 to 8/99)
Current year direct cost: \$205,502 (for extension year)
My role: Supervising the design, conduct, and analysis of the trial
Percent effort: 40%
Principal investigator: Rowe PC.
20. Title: Disordered Responses to Orthostatic Stress in the Pathogenesis of Gulf War Syndrome
Dates: 02/15/00 - 09/14/03
Sponsor: Department of Defense
Identification number: ERMS # 99105009
Total direct cost: [total cost for 3 years: \$1,462,528]
Current year direct cost: (\$397,243 for year 3)
My role: Supervising the design, conduct, and analysis of the study
Percent effort: 40%
Principal investigator: Rowe PC.
21. Title: Faculty Development in Primary Care
Dates 07/01/01-6/30/04
Sponsor: Bureau of Health Professions
Awarded: Grant No.: 5 D14 HP 00118-02
Total Project DC & IDC: \$2,111,239 (2,039,913 DC + 71,326 IDC)
Current year Directs and IDC for Current Budget Period: \$727,715
My role: supervision of fellows, lead critical appraisal component
Percent effort: 10%
Principal investigator: Anne Duggan, Ph D

22. Title: Movement restriction and fatigue in cancer survivors
Dates: 12/1/02-11/30/03
Sponsor: NIH/NCI
Awarded: Grant No.: P30CA06973
Total Project DC & IDC: 120,000 & 30,000
Current year Directs and IDC for Current Budget Period: 120,000 & 30,000
My role: co-investigator, study physical examinations
Percent effort: 3.5%
Principal investigator: C Schwartz (RPN 03-01-30-02)
23. Title: Faculty Development in Primary Care
Dates: 07/01/2004 to 06/30/2008
Sponsor: Health Resources & Services Administration
Total Direct Cost: \$940,139.00
Current year direct cost:
My Role: Supervision of fellows, lead critical appraisal component
Percent effort: 10%
Principal Investigator: Anne Duggan, ScD
24. Title: Effects of Neuromuscular Strain on Symptoms, Pain, and Central Sensitivity in Patients with Fibromyalgia and Chronic Fatigue Syndrome
Dates: January 2011 – January 2012
Sponsor: Blaustein Foundation
Role: Co-Investigator
Principal Investigator: Fontaine (PI)
25. Title: Effects of neuromuscular strain on orthostatic responses and symptoms in chronic fatigue syndrome (CFS).
Dates: 07/01/11-06/30/12
Sponsor: Ira Fine Discovery Award
Role: Co-Investigator
Principal Investigator: Fontaine (PI)
26. Title: Neuromuscular Strain in CFS
Dates: 08/01/12 – 07/31/14
Sponsor: CFIDS Association of America
Total direct costs: \$64,306
My role: Principal Investigator, supervising the design, conduct, and analysis of the study
Percent effort: 10%

EDUCATIONAL ACTIVITIES

Teaching:

Classroom instruction (Johns Hopkins University)

1. Co-Director, Medical Student Clerkship in Pediatrics, Johns Hopkins University School of Medicine, 1991-96
2. Tutor, Physician and Society course, Johns Hopkins University School of Medicine (1992-94)
3. Co-Director & Tutor, Longitudinal Experience for 3rd Year Medical Students, (1992-94)
4. Group leader, Death and Bereavement Seminar, Department of Pediatrics, 1998-2002, 2004, 2005, 2006

Classroom instruction (University of Ottawa)

1. Course organizer, Epidemiology 6178 (Clinical Trials), 1990-91
2. Course organizer, Critical appraisal course, offered annually to residents in the Department of Pediatrics, 1987-91.
3. Tutor, University of Ottawa School of Medicine courses in Pediatric Physical Examination Techniques (MEDS 2241), Human Dimension in Health and Disease (MEDS 1154), Measurement and Health (EPI 1154), 1987-91.

Clinical instruction:

Unassigned Ward Attending:

1991-92

CMSC 9: August 1992

CMSC 6:

1992-93

CMSC 9: August 1992

CMSC 6: May 1993

1993-94

CMSC 6: August 1993

CMSC 6: December 1993

1994-95

CMSC 6: August 1994

CMSC 6: January 1995

1995-96

CMSC 6: July 1995

CMSC 6: June 1996

1996-97

CMSC 6: February 1997

CMSC 6: June 1997

1999-2000

Zinkham team, May 2000

2002

Zinkham team, June 1- July 7, 2002

2004

Neill team, May 3-June 1, 2004

Zinkham team, Sept 22-Oct 19, 2004

2005

Zinkham team, Aug 23-Sept 19, 2005

2006

Neill team Attending, Aug 22-Sept 18, 2006

Neill team Teaching Attending, Sept 28-Oct 27, 2006

2007

Zinkham team, Teaching Attending, Jan 8- Feb 7, 2007

Resident Rounds:

Early Morning Intake Rounds Attending, Tuesday AM, Sept 2004 – July 2007

CME instruction:

1991-92:

JHU Pediatric Grand Rounds, Kawasaki Syndrome, 9 October 1991

JHU Pediatric Research Rounds, Hemolytic Uremic Syndrome, 24 October 1991

St. Agnes Hospital Pediatric Grand Rounds, Kawasaki Syndrome, 1 November 1991

Francis Scott Key Pediatric Grand Rounds, Kawasaki Syndrome, 19 November 1991

JHU Saturday Rounds, Interesting Patients from the Diagnostic Clinic, 1 February 1992

1992-93

Columbia Medical Plan Pediatric Rounds, Kawasaki Syndrome, 3 September 1992

GBMC Pediatric Grand Rounds, Kawasaki Syndrome, 17 September 1992

JHU Pediatrics for the Practitioner CME Course, Kawasaki Syndrome, 18 Sept 1992

St. Agnes Hospital Pediatric Grand Rounds, E. coli O157 and HUS, 23 October 1992

Francis Scott Key Pediatric Grand Rounds, E coli O157 and HUS, 27 October 1992

JHU Progress in Pediatrics CME Course, Kawasaki Syndrome, 6 November 1992

St. Joseph's Hosp. Pediatric Grand Rounds, E. coli O157:H7 infections, 12 Nov 1992

JHU Saturday Rounds, Interesting Patients from the Diagnostic Clinic, 17 April 1993

JHU Saturday Rounds, E. coli O157:H7 and HUS, 1 May 1993

JHU Pediatric Nephrology Rounds, E. coli O157:H7 and HUS, 26 May 1993

1993-94

JHU Pediatric Noon Conference, Kawasaki Syndrome, 1 September 1993

JHU Pediatrics for the Practitioner CME, Chronic Fatigue Syndrome, 10 September 1993

JHU Child Psychiatry Rounds, Patients on the Borderline, 17 September 1993

Sinai Hospital Pediatric Grand Rounds, Kawasaki Syndrome, 2 November 1993

JHU Saturday Rounds, Interesting Patients from the Diagnostic Clinic, 22 January 1994

Visiting Professor, Children's Hospital of Eastern Ontario, 8-10 February 1994

Vail Pediatrics Update, 28 February-2 March 1994:
Kawasaki Syndrome
E. coli O157:H7 and HUS
Interesting Patients from the Diagnostic Clinic I
Interesting Patients from the Diagnostic Clinic II
Maryland Chapter of the American Heart Association, Early Diagnosis of Kawasaki Syndrome, 18 March 1994

1994-95

JHU Pediatric Grand Rounds, New Treatments for Croup, 14 September 1994
JHU Pediatrics for the Practitioner CME, E. coli O157:H7 infections, 30 September 1994
JHU Hot Topics in Pediatrics, Hilton Head, 8-11 October 1994
Croup
Chronic Fatigue Syndrome
Interesting Patients from the Diagnostic Clinic I
Interesting Patients from the Diagnostic Clinic II
JHU Saturday Rounds, Chronic Fatigue Syndrome, 12 November 1994
JHU Saturday Rounds, Inhaled Steroids for the Treatment of Croup, 28 January 1995
Sinai Hospital Pediatric Grand Rounds, E. coli O157 and HUS, 15 March 1995
JHU Child Psychiatry Rounds, Chronic Fatigue Syndrome, 17 March 1995
JHU Pediatric Cardiology Fellows Rounds, Kawasaki Syndrome, 29 March 1995
Laboratory for Clinical Investigation Rounds, National Institute of Allergy and Infectious Diseases, Neurally mediated hypotension and chronic fatigue syndrome, 18 May

1995

1995-96

JHU Pediatrics for the Practitioner CME, Chronic Fatigue Syndrome, 14 September 1995
JHU Pediatric Noon Conference, Kawasaki Syndrome, 2 October 1995
Children's Hospital of Eastern Ontario, Ottawa, Resident's Academic Half Day, 1 November 1995
20th Annual Children's Hospital of Eastern Ontario Pediatric Refresher Course, Ottawa, 4-5 November 1995:
Chronic Fatigue Syndrome
E. coli O157:H7 infections and HUS
Interesting Patients from the Diagnostic Clinic
Harbor Hospital Update, Chronic Fatigue Syndrome, 29 November 1995
JHU Child Psychiatry Rounds, Chronic Fatigue Syndrome, 26 January 1996
Univ. of Maryland Pediatric Grand Rounds, Chronic Fatigue Syndrome, 15 February 1996
JHU Saturday Rounds, Interesting Patients from the Diagnostic Clinic, 30 March 1996
JHH Autonomic Seminar, Chronic Fatigue Syndrome, 12 April 1996
JHH Hematology Rounds, Hemolytic Uremic Syndrome, 20 May 1996

1996-97

JHU Pediatric Noon Conference, Kawasaki Syndrome, 9 September 1996
Walter Reed Hospital Pediatric Grand Rounds, Chronic Fatigue Syndrome, 16 September 1996
JHU Pediatrics for the Practitioner CME, Patients with Chronic Pain, 27 September 1996
JHU General Pediatrics Research Conference, Chronic Fatigue Syndrome, 24 October 1996
JHU Progress in Pediatrics CME, Chronic Fatigue Syndrome, 1 November 1996
Anne Arundel County Hosp Pediatric Rounds, Chronic Fatigue Syndrome, 19 November 1996
A Woman's Journey, Chronic Fatigue Syndrome, 23 November 1996
JHU Pediatric Grand Rounds, Chronic Fatigue Syndrome, 4 December 1996
JHU Bayview Pediatric Grand Rounds, Chronic Fatigue Syndrome, 14 January 1997
JHU Child Psychiatry Rounds, Chronic Fatigue Syndrome, 31 January 1997
Washington County Hospital, Hagerstown, Noon Rounds, Chronic Fatigue Syndrome, 10 April 1997
Washington County Hospital, Hagerstown, Update for the Public, Chronic Fatigue Syndrome, 10 April 1997
JHU Pediatric Trends CME, Chronic Fatigue Syndrome, 17 April 1997
Hartford Hospital, CT, Medical Grand Rounds, Chronic Fatigue Syndrome, 21 May 1997
St. Frances Hospital, CT, CFS Update for the Public, 21 May 1997
Bridgeport Hospital, CT, Medical Grand Rounds, CFS, 22 May 1997
Johns Hopkins Medical and Surgical Association Biennial Meeting, Chronic Fatigue Syndrome Revisited, 7 June 1997

1997-98

JHU Pediatrics for the Practitioner CME, Interesting Patients from the Diagnostic Clinic, 18 September 1997
JHU Child Psychiatry Rounds, Chronic Fatigue Syndrome, 14 October 1997
JHU Pediatric Noon Conference, Interesting Patients from the Diagnostic Clinic, 3 December 1997
EBMP Physician Update, Chronic Fatigue Syndrome, 5 December 1997
JHU Saturday Rounds, Update on Chronic Fatigue Syndrome, 4 April 1998

1998-99

JHU Robert Wood Johnson Clinical Scholars, Randomized Trial of Florinef for Chronic Fatigue Syndrome, 10 September 1998
JHU Pediatric Psychiatry Conference, Chronic fatigue syndrome, 5 Feb 1999
JHU MLA Program, Exploring the Sciences (459.738), Visiting Lecturer, 8 April 1999.
JHU Pediatric Trends, Update on CFS and Fibromyalgia, 12 April 1999.
York Hospital Pediatric Grand Rounds, Chronic Fatigue Syndrome, 21 April 1999.
JHU Divisional Research Conference, Ehlers Danlos and CFS, 6 May 1999.
JHU Pediatric Noon Conference, Chronic Fatigue Syndrome, 14 June 1999

1999-2000

JHU RWJ Clinical Scholars, Clinical Research on CFS, 29 July 1999
JHU Social Work Education Symposium, Chronic Fatigue Syndrome, 19 October 1999.
St Agnes Dept of Pediatric Grand Rounds, Chronic Fatigue Syndrome, 22 October 1999.
JHU Progress in Pediatrics, E. coli infections, 5 November 1999.
St. Joseph Medical Ctr, 13th Annual Interface: Medicine & Psychiatry, CFS, 6 Nov 1999.
Chester-Crozier Medical Ctr, Grand Rounds, Chronic Fatigue Syndrome, 12 Nov 1999.
JHU Pediatric Neurology Rounds, Neurally Mediated Hypotension, 28 January 2000
JHU Saturday Medicine Rounds, Chronic Fatigue Syndrome, 29 January 2000
JH Bayview Pediatric Grand Rounds, Hemolytic Uremic Syndrome, 11 April 2000
Harbor Hospital Medicine Grand Rounds, Chronic Fatigue Syndrome, 23 June 2000

2000-2001

JHU Pediatrics Noon Conference, Kawasaki syndrome, 27 July 2000
JHU Pediatrics for the Practitioner, Chronic Fatigue Syndrome, 16 Sept 2000
York Hospital Pediatric Grand Rounds, Pediatric Puzzlers, 18 October 2000
JHU Faculty research conference, Chronic fatigue, 08 February 2001-02-18
JH Bayview Pediatric Grand Rounds, Diagnostic Dilemmas, 14 February 2001
JHU Pediatric GI Rounds, Orthostatic Intolerance, 26 February 2001
Rockville-Montgomery Pediatrics Society, Chronic Fatigue Syndrome, 5 March 2001
Union Memorial Hosp Pediatric Grand Rounds, Orthostatic Intolerance, 14 March 2001
Maryland Disability Examiners, Update on CFS, 21 June 2001

2001-2002

New Jersey CFS Assoc. Annual Mtg, Treatment of Orthostatic Intolerance, 14 Oct 2001
York Hospital Pediatric Grand Rounds, Kawasaki Disease, 24 October 2001
New Zealand Paediatric Association Annual Meeting, Auckland, NZ
 Chronic Fatigue Syndrome, 1 Nov 2001
 Starship Hospital, Teaching Rounds, Diagnostic Problems, 1 Nov 2001
 Early Recognition of Kawasaki Disease, 2 Nov 2001
 Syncope, 2 Nov 2001
JHU Pediatric Emergency Dept Rounds, Orthostatic Intolerance, 23 Jan 2002
JHU Bayview Pediatric Grand Rounds, Kawasaki Disease, 31 Jan 2002
JHU Pediatric Cardiology Division Conf, NMH: pathophysiology and management, 27
 June 2002

2002-2003

JHU Physical Therapy Rounds, Chronic fatigue syndrome, 10 July 2002
Franklin Square Hospital Pediatric Grand Rounds, Chronic fatigue syndrome, 16 July
 2002
JHU Pediatric Noon Conference, Kawasaki Disease, 3 September 2002
Harbor Hospital Medical Grand Rounds, Chronic Fatigue Syndrome, 6 September 2002
Children's Hospital of Eastern Ontario 27th Annual Pediatric Refresher Course, Common
 medical disorders in behavioural guise, 14 November 2002

Children's Hospital of Eastern Ontario Resident Conference, Diagnostic Cases,
Orthostatic Intolerance, 14 November 2002

JHU Adolescent Medicine Divisional Conference, Orthostatic intolerance, 24 Jan 2003

JHU Adolescent Medicine Divisional Conference, Pelvic congestion, 21 Feb 2003

JHU Pediatric Noon Conference, Orthostatic Intolerance, 6 May 2003

Charles Reilly Lecture, York Hospital, Chronic Fatigue Syndrome, 28 May 2003

2003-2004

JHU Pediatrics for the Practitioner, Chronic Fatigue, 25 September 2003

Pri-Med Washington DC, Pediatric Puzzles, 18 October 2003

JHU Physician & Society Course, Hot Topics presentation on CFS, 21 October 2003

JHU Pediatric Noon Conference, Kawasaki Disease, 15 December 2003

JHU Pediatric Grand Rounds, Chronic Fatigue Syndrome, 7 January 2004

York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 2 June 2004

2004-2005

JHU Pediatric Noon Conference, Kawasaki Disease, 4 Aug 2004

JHU Clinical Scholars, Research in Progress, Chronic Fatigue Syndrome, 5 Aug 2004

JHU Physician & Society Course, Hot Topics presentation on CFS, 19 October 2004

JHU Pediatric Noon Conference, Diagnostic Dilemmas, 26 October 2004

Canadian Association of Paediatric Health Centres Annual Meeting, Chronic Illness in
Pediatrics: Lessons from Chronic Fatigue Syndrome, Montreal, PQ, 9 November 2004

JHU/KKI Neurodevelopmental Conference, Orthostatic Intolerance, 11 November 2004

JHU Dermatology Grand Rounds, Kawasaki Disease, 17 November 2004

JHU Pediatric Noon Conference, Diagnostic Dilemmas, 1 March 2005

JHU Pediatric Noon Conference, Diagnostic Dilemmas, 6 June 2005

York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 15 June 2005

2005-2006

JHU Pediatric Noon Conference, Kawasaki Disease, 2 Aug 2005

JHU Friday Case Conference, E. coli O157:H7 epidemiology, 2 Sept 2005

Pri-Med Baltimore, Pediatric Puzzles, 8 October 2005-10-19

JHU Physician & Society Course, Hot Topics presentation on CFS, 18 October 2005

JHU Pediatric Noon Conference, Diagnostic Dilemmas, 12 December 2005

Franklin Square Hospital Pediatric Grand Rounds, Update on Pediatric CFS, 20 Dec

2005

JHU Noon Conference, Orthostatic Intolerance, 30 January 2006

JHU Noon Conference, Chronic Fatigue Syndrome, 21 February 2006

JHU Bayview Pediatric Grand Rounds, Pediatric Puzzles, 6 April 2006

York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 14 June 2006

2006-2007

JHU Pediatric Noon Conference, Kawasaki Disease, 24 Aug 2006

JHU Adolescent Medicine Rounds, Update on Pediatric CFS, 3 November 2006

JHU Child Psychiatry Rounds, Pediatric CFS, 10 January 2007
JHU Pediatric Noon Conference, Diagnostic Dilemmas, 22 January 2007
JHU Pediatric Noon Conference, Diagnostic Dilemmas, 19 February 2007
AMSA Convention, Pediatric Chronic Fatigue Syndrome, 9 March 2007
York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 11 April 2007
Western Maryland Health System, Pediatric Grand Rounds, Update on Orthostatic Intolerance, 24 April 2007
21st Annual Mary Haleck Memorial Lecture, Union Memorial Hospital, Pediatric Puzzlers, 28 April 2007
JHU Pediatric Noon Conference, Diagnostic Dilemmas, 15 May 2007
JHU Pediatric Noon Conference, Diagnostic Dilemmas, 19 June 2007
JHU Pediatric Intern Orientation, History of the Harriet Lane, 25 June 2007

2007-2008

JHU Pediatric Noon Conference, Kawasaki Disease, 25 July 2007
JHU Pediatric Noon Conference, Diagnostic Dilemmas, 18 October 2007
JHU Adolescent Medicine Rounds, Pelvic Congestion Syndrome, 26 October 2007
Howard County Hospital Pediatric Rounds, Kawasaki Update, 14 November 2007
Sinai Hospital Pediatric Grand Rounds, Update on CFS, 22 Jan 2008
York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 23 April 2008
JHU Pediatric Noon Conference, Chronic Fatigue Syndrome, 29 April 2008
JHU Pediatric Noon Conference, Diagnostic Dilemmas, 27 May, 2008
JHU Pediatric Intern Orientation, History of the Harriet Lane, 23 June 2008

2008-2009

JHU Adolescent Medicine Rounds, Update on Pediatric CFS, 12 September 2008
JHU Pediatric Noon Conference, Kawasaki Disease, 16 Sept 2008
JHU General Pediatrics Research Rounds, Chronic fatigue Syndrome, 08 October 2008
JHU Pediatric Gastroenterology Rounds, Orthostatic Intolerance, 29 October 2008
American Academy of Child and Adolescent Psychiatry, 55th Annual Mtg, Institute on Pharmacologic Challenges Associated with Psychiatric Morbidity, Treatment of Medical Disorders with Significant Psychiatric Features: Chronic fatigue, Fibromyalgia, Neurally Mediated Hypotension, Chicago, 31 October 2008
Young and Tired: From Theory to Practice. National Conference on CFS in Children. “Abnormal Cardiovascular Regulation in CFS” (December 1), and “Diagnosis and Management of Co-morbid Somatic Conditions in Chronic Fatigue Syndrome” (December 2). Oslo, Norway, Dec 1-2, 2008
JHU Behavioral Psychology Rounds, Chronic Fatigue and Orthostatic Intolerance, 23 February 2009
Northern Virginia CFS/ME & FMS Support Group, Update on orthostatic intolerance in CFS (and FM), Chantilly, VA, 21 March 2009
Academic Pediatric Association. Pain SIG, Chronic Fatigue Syndrome (seminar), Baltimore, MD, 2 May 2009
York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 6 May 2009

JHU Pediatric Intern Orientation, History of the Harriet Lane, 23 June 2009

2009-2010

CFIDS Association/NIH meeting, From Infection to Neurometabolism, Orthostatic Stability and Instability, Banbury Center, Cold Spring Harbor Laboratory, 15 Sept 2009

JHU Behavioral Psychology Rounds, Chronic Fatigue and Orthostatic Intolerance, 26 October 2009

Inova-Fairfax Children's Hospital Pediatric Grand Rounds, Chronic Fatigue, 10 December 2009

JHU Pediatric Noon Conference, Kawasaki Disease, 19 January 2010

JHU Adolescent Medicine Rounds, Update on Pediatric CFS, 22 January 2010

JHU Pediatric Noon Conference, Chronic Fatigue Syndrome, 19 April 2010

York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 21 April 2010

JHU Pediatric Research Conference, Neurodynamic Load in CFS, 29 April 2010

St Agnes Hospital, 18th Fred J. Heldrich, MD Lecture, Faces of CFS, 30 April 2010

American Pain Society 29th Annual Scientific Meeting, Symposium on Pain-Associated Disability Syndrome. Orthostatic Intolerance and Chronic Fatigue in Adolescents with Connective Tissue Disorders. Baltimore, MD, May 8, 2010

JHU Adolescent Medicine Rounds, Pelvic Congestion Syndrome, 14 May 2010

Franklin Square Pediatric Grand Rounds, Update on Pediatric CFS, 18 May 2010

JHU Pediatric Intern Orientation, History of the Harriet Lane, 23 June 2010

2010-2011

CFIDS Webinar, Managing Orthostatic Intolerance, 1 Sept 2010 [www.cfids.org]

JHU Adolescent Medicine Rounds, Adolescent Puzzlers, 10 Sept 2010

JHU Child Psychiatry Rounds, CFS and Orthostatic Intolerance, 10 Nov 2010

Georgetown University Pediatric Grand Rounds, CFS, 7 January 2011

JHU Pediatric Noon Conference, Chronic Fatigue Syndrome, 25 January 2011

JHU/KKI Behavioral Psychology Rounds, CFS & Orthostatic Intolerance, 07 Feb 2011

JHU Pediatric Noon Conference, Kawasaki Disease, 08 February 2011

Virginia Hospital Center, Pediatric Grand Rounds, CFS, 15 February 2011

York Hospital Pediatric Grand Rounds, Diagnostic Dilemmas, 9 March 2011

American College of Medical Genetics, 20th Annual Meeting, 42nd Annual March of Dimes Clinical Genetics Conference, Hereditary Disorders of Connective Tissue: Update 2011, Autonomic Dysfunction in the Hereditary Disorders of Connective Tissue, Vancouver, 18 March 2011

JHU Pediatric Noon Case Conference, POTS, 1 April 2011

NIH State of the Knowledge Workshop, Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) Research, Orthostatic Intolerance in Chronic Fatigue Syndrome, Bethesda, 7 April 2011

JHU Pediatric Noon Conference, Managing Orthostatic Intolerance, 3 May 2011

JHU/KKI Rehabilitation Conference, POTS in Adolescence, 24 May 2011

JHU Pediatric Intern Orientation, History of the Harriet Lane, 22 June 2011

2011-2012

Ehlers-Danlos National Foundation 2011 Learning Conference, Chronic Fatigue in EDS, Baltimore, MD, 22 July 2011, repeated 23 July 2011.
JHU/KKI Physical Therapy Rounds, CFS & Orthostatic Intolerance, 15 Sept 2011
JHU/KKI Behavioral Psychology Rounds, CFS & Orthostatic Intolerance, 24 Oct 2011
JHU Division of General Peds & Adolescent Medicine, Research Update, 2 Nov 2011
JHU Adolescent Medicine Rounds, Adolescent Puzzlers, 11 Nov 2011
JHU Pediatric Nursing In-service, Pediatric POTS and Infusion needs, 15 Nov 2011
Suburban Hospital Grand Rounds, CFS, Bethesda, MD, 9 Dec 2011
JHU Adolescent Medicine Rounds, Adolescent Puzzlers, 10 Feb 2012
JHU Pediatric Noon Conference, Kawasaki Disease, 14 Feb 2012
JHCP Pediatric Meeting, Kawasaki Disease, Wyman Park, 21 Feb 2012
JHU Pediatric Noon Conference, CFS, 10 April 2012
JHU Pediatric Friday Case Conference, Kawasaki Disease, 11 May 2012
JHU Pediatric Noon Conference, Managing Orthostatic Intolerance, 29 May 2012
Chronic Fatigue Syndrome Advisory Committee Meeting, Pediatric Chronic Fatigue Syndrome, US Department of Health and Human Services, Washington, DC, 13 June 2012
JHU Pediatric Intern Orientation, History of the Harriet Lane, 21 June 2012

2012-2013

JHU Adolescent Medicine Rounds, Adolescent Puzzlers, 24 Aug 2012
CFIDS Association/CDC meeting, Decoding Clinical Trials to Improve Treatment of ME/CFS, Lessons from the Florinef Trial Banbury Center, Cold Spring Harbor Laboratory, 30 Sept 2012
JHU/KKI Behavioral Psychology Rounds, CFS & Orthostatic Intolerance, 5 Nov 2012
An Integrative Approach to Chronic Lyme Disease and other Medically Unexplained Syndromes, Chronic Fatigue Syndrome in 2012, Johns Hopkins Integrative Medicine and Digestive Center, Baltimore, Nov 10, 2012 (taped)
JHU Pediatric Noon Conference, Kawasaki Disease, 8 April 2013
American Society for Pharmacology and Experimental Therapeutics, Experimental Biology 2013, Symposium on Orthostatic Intolerance: Insights into pharmacologic, physiologic, and gender issues. Ehlers-Danlos Syndrome, Joint Hypermobility, and Orthostatic Intolerance. Boston, MA 21 April 2013.
Maryland Department of Education, Home and Hospital Teaching Coordinators' Meeting, Postural tachycardia syndrome and transitioning back to school. Gambrills, MD, 25 April 2013.
Food and Drug Administration, Drug Development for Chronic Fatigue Syndrome and Myalgic Encephalomyelitis: Public Workshop, Clinical trial design in CFS, Bethesda, MD, 26 April 2013.
JHU Pediatric Noon Conference, Managing Orthostatic Intolerance, 29 April 2013
JHU/KKI Neuropsychology Rounds, CFS & Orthostatic Intolerance, 29 April 2013
JHU Pediatric Noon Conference, CFS, 23 May 2013

2013-14

- Dysautonomia International Patient Conference, Food Sensitivities and GI motility Issues in Disorders of Orthostatic Intolerance, Herndon, VA, 07 July 2013
- Dysautonomia International Patient Conference, The Relationship between Ehlers-Danlos Syndrome and Orthostatic Intolerance, Herndon, VA, 07 July 2013
- Greater Metropolitan Area Chiari and Syringomyelia Foundation Chapter Meeting, Dysautonomia and Postural Orthostatic tachycardia in the Chiari/EDS Population. Lanham, Maryland, 17 July 2013
- Mercy Hospital Pediatric Grand Rounds, CFS in 2013, Baltimore, MD, 04 October 2013
- Chiari Syringomyelia Foundation Research Colloquium, Craniocervical abnormalities presenting with circulatory dysfunction and fatigue, San Francisco, CA, 19 October 2013
- ACHIEVES Conference: Preventing Sudden Death in School Aged Athletes, POTS: overview and challenges for students and athletes, Manassas, George Mason University, 5 Nov 2013
- IACFS/ME 11th Biennial International Conference Workshop: Diagnosing and treating Orthostatic Intolerance in CFS/ME, San Francisco, 20 March 2014.
- JHU Pediatric Trends, POTS, 10 April 2014
- JHU Pediatric Trends, Update on CFS, 11 April 2014
- JHU Behavioral Psychology Rounds, KKI, Update on POTS, 14 April 2014
- JHU Adolescent Medicine Rounds, Problem Cases, 2 May 2014
- Howard County Dept of Pediatrics Grand Rounds, Update on POTS, 28 May 2014
- JHU Pediatric Intern Orientation, History of the Harriet Lane, 17 June 2014
- EDS Monthly Meetings, Update on Orthostatic Intolerance, Howard County General Hospital, 18 June 2014

2014-15

- EDS Awareness Educational Series Webinar, Managing Orthostatic Intolerance in Ehlers-Danlos Syndrome, July 16, 2014
- JHU Adolescent Medicine Rounds, Update on Pediatric CFS, 1 August 2014
- JHU Student Health and Wellness Center Rounds, Update on CFS and Orthostatic Intolerance in Adolescents and Young Adults, 10 Sept 2014
- The Coalition Against Pediatric Pain Physician Conference, Arlington, VA, CFS, OI, and Hypermobility Syndrome, 13 Sept 2014
- JHU Child and Adolescent Psychiatry Rounds, Update on CFS and Orthostatic Intolerance, 17 September 2014
- SolveCFS Board Meeting, ME/CFS: the Clinical Picture, Denver, CO, 4 October 2014
- Connecting the Dots Between EDS and POTS Webinar, Ehlers Danlos Syndrome, 9 October, 2014
- Chiari Syringomyelia Foundation Research Colloquium, Co-Morbid Conditions that Confound the Outcome of Chiari Malformation Surgery, Orthostatic intolerance and neurally mediated hypotension in the setting of cerebellar tonsillar ectopia, Boston, MA, 18 October 2014

ILC Difficult to Diagnose Chronic Pain Diseases: Ehlers-Danlos Syndrome 2nd Annual Canadian Medical Conference, Chronic Fatigue in EDS and its Impact of Quality of Life, Toronto, Ontario, Canada; 1 Nov 2014

Swedish National Society for ME-patients (RME) Seminar on Pediatric ME/CFS, Orthostatic Intolerance and Pediatric ME/CFS, Stockholm, Sweden, 12 November 2014.

Disabling Heritable Connective Tissue Disorders: Multi system presentation, diagnosis and treatment strategies, Chiari Syringomyelia Foundation Colloquium, Cardiovascular Manifestations of Hereditary Hypermobility Disorders: The Importance of Orthostatic Intolerance, Medical University of South Carolina, Charleston, SC, 20 November 2014

Franklin Square Pediatric Grand Rounds, CFS and POTS, 20 January 2015

JHH Bayview Rehabilitation Division, CFS and POTS, 19 February 2015

JHU Pediatric Noon Conference, Kawasaki Disease, 24 February 2015

JHU/KKI Behavioral Psychology Rounds, POTS, 23 March 2015

Pediatric Grand Rounds, New York Medical College, Valhalla NY, Pediatric CFS, 25 March 2015

Chiari Syringomyelia Foundation Think Tank Meeting, Orthostatic Intolerance: Diagnostic Evaluation, Washington, DC, 2 May 2015

JHU Pediatric Intern Orientation, History of the Harriet Lane, 17 June 2015

2015-2016

Solve MECFS Initiative, Inducing Post-Exertional Malaise: A Look at the Research Evidence, Webinar, 16 July 2015

Ehlers Danlos National Foundation 2015 Learning Conference, Orthostatic intolerance in EDS: More than just POTS, Baltimore MD, 14-15 Aug 2015

School Nurse Back-to-School Development Day, CFS and POTS, Towson, MD, 20 August 2015

JHU Student Health and Wellness Center Rounds, Case Presentations: CFS and Orthostatic Intolerance in Adolescents and Young Adults, 9 Sept 2015

Chiari Syringomyelia Foundation Research Colloquium, Cardiovascular Instability in Chiari and Related Disorders, New Orleans, LA, 26 Sept 2015

ILC & McMaster Annual EDS and Chronic Pain Conference, Diagnosing CFS and Orthostatic Intolerance in EDS, Toronto, CA, 07 Nov 2015

JHU Pediatric Noon Conference, Kawasaki Disease, 07 Dec 2015

Pediatric Grand Rounds, Dartmouth University, Hanover, NH, Pediatric CFS, 09 Dec 2015

Mentoring:

1. Masters thesis supervisor, Neima Langner, MD, MSc, University of Ottawa School of Medicine, Department of Epidemiology and Public Health
2. David Bernard, MD (Fellowship research project)
3. Issam Bou-Holaigah, MD (Fellowship research projects)

4. Katherine E. Lucas, PhD (Mentor for Masters thesis paper, PhD thesis)
5. Tracy Hoke, MD (Mentor for doctoral thesis project)
6. Omolara Olaniyan, MD (Fellowship research project)
7. Training grant participation, General Pediatrics Academic Development, 1996-
8. Raul Chavez Valdez, Scholarship Oversight Committee, 2006-2009
9. Punit Jhaveri, Scholarship Oversight Committee, 2008-2010
10. Christine Briccetti, MD 2009-2012 (Fellowship research project)
11. Amanda Ross, 2012-2013, JHU undergraduate, project on “Brain Fog in Orthostatic Intolerance”

Editorial Activities:

Journal peer review activities

New England Journal of Medicine, Lancet, Pediatrics, Journal of Pediatrics, Circulation, Journal of the American Medical Association, Archives of Pediatric and Adolescent Medicine, Pediatric Nephrology, Medicine, American Journal of Medicine, American Journal of Medical Sciences, Journal of Psychosomatic Research, Canadian Medical Association Journal, Infectious Disease in Clinical Practice, Clinical Autonomic Research, Patient Education and Counselling, Clinical Physiology and Functional Imaging, Annals of Noninvasive Electrocardiology, American J Cardiology, Pediatric Cardiology, Acta Paediatrica, Clinical Science, European J Physiology, Pediatric Blood & Cancer, J Nervous and Mental Disease, Child: Care, Health & Development, Fatigue: Biomedicine, Health & Behavior, JAMA Pediatrics.

CLINICAL ACTIVITIES

Certification:

Licensure

1987-2007 Province of Ontario (#58889)
 1991- State of Maryland (#D0031088)

Boards

1981 Licentiate, Medical Council of Canada (#55888)
 1986 Diplomate, American Board of Pediatrics (#33700)
 1987 Fellow, Royal College of Physicians and Surgeons of Canada

Service Responsibilities:

1991-97 2 mo per year as the attending pediatrician on the pediatric ward service
 1991-97 Medical Director, CMSC-6
 1997-2007 1-2 mo per year General Pediatrics/Ward Attending call
 1991-97 Full-year attending for Diagnostic Referral Clinic patients
 1997- Full-year attending for Chronic Fatigue Clinic patients

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

Johns Hopkins University School of Medicine Committees:

Joint Committee on Clinical Investigation (1991-97)
Joint Committee on Clinical Investigation Subcommittee (1996-97)
Educational Policy Committee (1991-96)
Student Promotions Committee (1991-96)
Advisory Committee, Physician and Society Course (1991-95)
Helen and Harold Harrison Prize for Excellence in Pediatrics Committee (1991-)

Johns Hopkins Department of Pediatrics Committees:

Executive Committee (1991-95)
Intern Selection Committee (1985-87, 1991-95)
Education Committee (1991-95)
Residency Review Committee (1991-95)
Ad Hoc Admissions/Discharge Committee (1992-93)
Search Committee, Chief of Pediatric Nephrology (1992)
Search Committee, Chief of Pediatric Cardiology (1993)
Library Committee (1991-)
Specialty Clinic Sub-Committee of the Clinical Practice Committee (1999 -)
Frank A. Oski Pediatrics Scholars Committee (1999 -)
Promotion Committee (2002 -)
Search Committee, Chief of Allergy & Immunology (2003-4)
Chair, Catherine A. Neill Memorial Tribute, 23 June 2006

Johns Hopkins Hospital Committees:

Clinical Data and Documentation Committee (1991-93)
Ad Hoc Committee on Medical Devices (1992)
Working Group on Professionalism in Medicine (1992-93)

Johns Hopkins Bloomberg School of Public Health Committees:

Committee of Thesis Readers, doctoral thesis, Katherine Lucas, 11 May 2004
Committee of Thesis Readers, doctoral thesis, Chen-Chung Liu, 7 Sept 2004
Preliminary Doctoral Exam Committee (alternate), Elizabeth Edsall, 22 April 2005

Department of Pediatrics, University of Ottawa School of Medicine

Chair, Ad hoc Committee on Alternative Departmental Funding (1990)
Chair, Teaching Rounds Subcommittee of the Postgraduate Education Committee (1990)
Ethics Committee, University of Ottawa School of Medicine (1990-91)
Library Committee, CHEO (1989-91)
Undergraduate Education Committee (1988-91)
Science Committee, CHEO Research Institute (1988-91)
Adjunct Investigator, CHEO Research Institute (2003 -)

Professional Societies

Academic Pediatric Association, 1985-
American Academy of Pediatrics, 1987-
Canadian Pediatric Society, 1987-
Society for Pediatric Research, 1996-
American Autonomic Society, 1996-2008
American Pediatric Society, 2010-

Conference Organizer, Session Chair

1. Scientific Planning Committee for the Canadian Pediatric Society Annual Meeting, 1991
2. Chair, Attention Deficit Disorders Symposium, Canadian Pediatric Society Annual Meeting, Ottawa, 1991.
3. Seminar leader, Judging Journal Articles in Making Clinical Decisions, American Academy of Pediatrics Annual Meeting, Washington, 30 October 1993.
4. Seminar leader, Clinical Decision Making: Judging Journal Articles for Reliability, American Academy of Pediatrics Annual Meeting, San Francisco, 14 October 1995.
5. Seminar leader, Chronic Symptoms: Diagnostic Dilemmas for the Pediatrician, American Academy of Pediatrics Annual Meeting, Boston, 30 October 1996.

Advisory Committees, Review Groups

Advisory Committee, Interdisciplinary Generalist Clerkship (1992-6)
Local Advisory Committee, Research Unit of Pediatric Psychopharmacology (1996 - 1997)
Ad hoc reviewer for National Institutes of Health (NHLBI) program project grant (Dec 16-17 1996).
Medical Research Advisory Committee, CFIDS Association of America (1999-2002)
Chronic Fatigue Syndrome Coordinating Committee of the NIH (1999-2002)
Planning Committee, CFS Assessment Symposia Series, CFIDS Association of America (2000 - 2001)
Peer Review Group, Evidence Based Medicine Report on Chronic Fatigue Syndrome, San Antonio Evidence-based Practice Center, AHQR (2000 – 2001)
Member, NIH Center for Scientific Review Special Emphasis Panel on Chronic Fatigue Syndrome/Fibromyalgia, March 18, 2003
Member, NIH Center for Scientific Review Special Emphasis Panel on Chronic Fatigue Syndrome/Fibromyalgia, December 5, 2003
Chair, NIH Center for Scientific Review Special Emphasis Panel on Neuroimmune Mechanisms and Chronic Fatigue Syndrome, January 26, 2006
Member, CFIDS Association of America, 2008 Research Grant Review Committee, September 2008
Member, NIH Center for Scientific Review Special Emphasis Panel on Chronic Fatigue Syndrome/Fibromyalgia, 25-26 June 2012
Member, NIH Center for Scientific Review Special Emphasis Panel on Chronic Fatigue Syndrome/Fibromyalgia, 7 February 2013
Chair, NIH Center for Scientific Review Special Emphasis Panel on Myalgic

Encephalomyelitis/Chronic Fatigue Syndrome, 9 May 2013
Member, Research Advisory Council, CFIDS Association of America, 2013 –
Member, NIH Working Group Planning Meeting for the Pathways to Prevention Workshop:
Myalgic Ecephalomyelitis/Chronic Fatigue Syndrome, 6-7 January 2014
Member, Institute of Medicine Committee on Diagnostic Criteria for Myalgic
Encephalomyelitis/Chronic Fatigue Syndrome, 2014.
Member, Scientific, Education, and Advisory Board, Chiari Syringomyelia Foundation,
2015-
Member, Autonomic Dysfunction Working Group, Ehlers-Danlos Syndrome International,
2015-

RECOGNITION

Awards

- 1975 Lampman Scholarship in Literature, Trinity College, University of Toronto
- 1976 Waddington Scholarship in Literature, Trinity College, University of Toronto
- 1977 Trinity College Scholarship in Literature, Trinity College, University of Toronto
- 1978 Chancellor's Medal for Standing in the Arts, University of Toronto
- 1984 Elected to Alpha Omega Alpha, Johns Hopkins University School of Medicine
- 1984 Kamsler Award, awarded annually to one pediatric house officer at Johns Hopkins for compassionate and expert care
- 2005 Alexander J. Schaffer Award, awarded annually to one physician for house staff teaching contributions, Harriet Lane House Staff, Johns Hopkins Hospital
- 2014 2014 Research Award, International Association for CFS/ME Biannual Meeting, San Francisco, CA, for outstanding research contributions to the field of CFS/ME.

Invited Talks, Panels:

1. E coli O157:H7 infection and hemolytic uremic syndrome, American Society of Microbiology, Maryland Chapter Annual Meeting, UMBC, 29 September 1993
2. Neurally mediated hypotension and chronic fatigue syndrome, presented at the Division of Microbiology and Infectious Diseases Subcommittee of the National Institute of Allergy and Infectious Diseases Council, Bethesda, 12 September 1995.
3. Neurally mediated hypotension and chronic fatigue syndrome, CFIDS Association of America Annual Meeting, Charlotte NC, 23 September 1995
4. Neurally mediated hypotension and chronic fatigue syndrome, Interagency Coordinating Committee on Chronic Fatigue Syndrome, National Institutes of Health, Bethesda, 10 April 96.
5. Neurally mediated hypotension and chronic fatigue syndrome (plenary talk), American Autonomic Society, VII International Symposium of the Autonomic Nervous System, Montreal, 10 October 1996.
6. Neurally mediated hypotension in chronic fatigue syndrome (plenary talk), American Association for Chronic Fatigue Syndrome, Second Biennial Chronic Fatigue Conference, San Francisco, 15 October 1996.

7. Chronic fatigue syndrome (plenary talk). American Academy of Pediatrics, Annual Meeting, Boston, 30 October 1996.
8. Chronic fatigue syndrome. National Association of Pediatric Nurse Practitioners Annual Meeting, Washington, DC, 6 March 1997.
9. Diagnostic Dilemmas. National Association of Pediatric Nurse Practitioners Annual Meeting, Washington, DC, 6 March 1997.
10. Clinical trials of Synsorb-Pk in preventing HUS (combined plenary talk with Glen Armstrong), VTEC '97, 3rd International Symposium and Workshop on Shiga Toxin (Verocytotoxin)-producing *Escherichia coli* infections, Baltimore, 25 June 1997.
11. Neurally mediated hypotension and chronic fatigue syndrome, taped presentation for the national NIH/CDC live videotape conference, 18 September 1997
12. Neurally mediated hypotension and fibromyalgia. Frontiers on Fibromyalgia, Portland, OR, 14 September 1997.
13. Chronic Fatigue Syndrome. Salt Institute Annual Meeting, Pentagon City, VA, 2 October 1997
14. Neurally mediated hypotension and chronic fatigue syndrome. CFS Association of Virginia, Richmond, 8 November 1997.
15. Neurally mediated hypotension and chronic fatigue syndrome, CFS 98: New approaches to treatment, Sydney, Australia, 12 February 1998.
16. Treatment of neurally mediated hypotension in chronic fatigue syndrome, CFS 98: New approaches to treatment, Sydney, Australia, 13 February 1998.
17. Orthostatic intolerance in adolescent chronic fatigue syndrome, Chronic Fatigue Syndrome in Adolescents, NIH State of the Art Workshop, Health and Human Services, Washington, DC 28 April 1998.
18. Chronic fatigue syndrome, Maryland Association of Disability Examiners, 15 June 1999.
19. Chronic fatigue syndrome: What role does dysautonomia play in the pathophysiology of this complex illness? CFIDS Association of America. Washington, DC. 4 December 2000.
20. Update on CFS, Maryland Association of Disability Examiners, 21 June 2001.
21. Chronic fatigue syndrome (plenary talk), Royal Australasian College of Physicians and Specialty Societies, Annual Meeting, Auckland, New Zealand, 1 November 2001
22. Early recognition of Kawasaki disease, Royal Australasian College of Physicians and Specialty Societies, Annual Meeting, Auckland, New Zealand, 2 November 2001
23. Syncope (plenary talk), Royal Australasian College of Physicians and Specialty Societies, Annual Meeting, Auckland, New Zealand, 2 November 2001.
24. Ehlers-Danlos Syndrome and Chronic Fatigue Syndrome: Phenotype Overlap, Connective Tissue Consortium Conference, Baltimore, MD, 24 September 2002.
25. Charles M. Reilly, MD, Endowed Lectureship, York Hospital, Chronic Fatigue Syndrome: What have we learned in the last decade? York, PA, 28 May 2003
26. Canadian Association of Paediatric Health Centres Annual Meeting, Chronic Illness in Pediatrics: Lessons from Chronic Fatigue Syndrome, Montreal, PQ, 9 November 2004
27. Chronic Fatigue Syndrome Advisory Committee, U. S. Department of Health and Human Services, Pediatric Chronic Fatigue Syndrome, Washington DC, 10 January 2005 28.

- CFIDS Association of America, Pediatric CFS, kNOw MORE CFS Education and Empowerment Series, Charlotte, NC, 13 November 2005
29. Orthostatic intolerance and joint hypermobility, 10th Annual Pauline Wilson Horner Genetics Symposium, Case Western Reserve University School of Medicine, Cleveland OH, 15 December 2005.
 30. Pediatric chronic fatigue syndrome, American Medical Student Association 57th Annual National Convention, Washington, DC, 9 March 2007
 31. Moderator and speaker (Pediatric Puzzlers), 21st Annual Mary Haleck Memorial Lecture, Union Memorial Hospital, Baltimore, MD, 28 April 2007.
 32. American Academy of Child and Adolescent Psychiatry, 55th Annual Mtg, Institute on Pharmacologic Challenges Associated with Psychiatric Morbidity, Treatment of Medical Disorders with Significant Psychiatric Features: Chronic fatigue, Fibromyalgia, Neurally Mediated Hypotension, Chicago, IL, 31 October 2008.
 33. Young and Tired: From Theory to Practice. National Conference on CFS in Children. Abnormal Cardiovascular Regulation in CFS. Oslo, Norway, 01 December 2008
 34. Young and Tired: From Theory to Practice. National Conference on CFS in Children. Diagnosis and Management of Co-morbid Somatic Conditions in Chronic Fatigue Syndrome. Oslo, Norway, 02 December 2008
 35. Academic Pediatric Association, Pain SIG. Chronic Fatigue Syndrome (seminar). Baltimore, MD, 2 May 2009
 36. CFIDS Association/NIH meeting, From Infection to Neurometabolism. Orthostatic Stability and Instability. Banbury Center, Cold Spring Harbor Laboratory, 15 Sept 2009
 37. 18th Annual Fred J. Heldrich, MD Pediatric Lecture, The Faces of CFS, St Agnes Hospital, Baltimore, MD, 30 April 2010
 38. American Pain Society 29th Annual Scientific Meeting, Symposium on Pain-Associated Disability Syndrome. Orthostatic Intolerance and Chronic Fatigue in Adolescents with Connective Tissue Disorders. Baltimore, MD, May 8, 2010
 39. CFIDS Association of America Webinar, managing Orthostatic Intolerance, 1 Sept 2010 [available on <http://www.youtube.com/solvecfs>]
 40. American College of Medical Genetics, 20th Annual Meeting, Hereditary Disorders of Connective Tissue: Update 2011, Autonomic Dysfunction in the Hereditary Disorders of Connective Tissue, Vancouver, 18 March 2011
 41. NIH State of the Knowledge Workshop, Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) Research, Orthostatic Intolerance in Chronic Fatigue Syndrome, Bethesda, 7 April 2011
 42. Ehlers-Danlos National Foundation 2011 Learning Conference, Chronic Fatigue in EDS, Baltimore, MD, 22 July 2011, repeated 23 July 2011.
 43. Chronic Fatigue Syndrome Advisory Committee Meeting, Pediatric Chronic Fatigue Syndrome, US Department of Health and Human Services, Washington, DC, 13 June 2012
 44. CFIDS Association/CDC meeting, Decoding Clinical Trials to Improve Treatment of ME/CFS, Lessons from the Florinef Trial Banbury Center, Cold Spring Harbor Laboratory, 30 Sept 2012

45. An Integrative Approach to Chronic Lyme Disease and other Medically Unexplained Syndromes, Chronic Fatigue Syndrome in 2012, Johns Hopkins Integrative Medicine and Digestive Center, Baltimore, Nov 10, 2012 (taped)
46. A Case-Based Approach to Chronic Fatigue Syndrome, CDC/Medscape video filming, Atlanta, GA, 23 Jan 2013.
47. American Society for Pharmacology and Experimental Therapeutics, Experimental Biology 2013, Symposium on Orthostatic Intolerance: Insights into pharmacologic, physiologic, and gender issues. Ehlers-Danlos Syndrome, Joint Hypermobility, and Orthostatic Intolerance. Boston, MA 21 April 2013.
48. Maryland Department of Education, Home and Hospital Teaching Coordinators' Meeting, Postural tachycardia syndrome and transitioning back to school. Gambrills, MD, 25 April 2013.
49. Food and Drug Administration, Drug Development for Chronic Fatigue Syndrome and Myalgic Encephalomyelitis: Public Workshop, Clinical trial design in CFS, Bethesda, MD, 26 April 2013. <http://www.tvworldwide.com/events/fda/130425/>
50. Dysautonomia International Patient Conference, Food Sensitivities and GI motility Issues in Disorders of Orthostatic Intolerance, Herndon, VA, 07 July 2013.
51. Dysautonomia International Patient Conference, The Relationship between Ehlers-Danlos Syndrome and Orthostatic Intolerance, Herndon, VA, 07 July 2013
52. Swedish National Society for ME-patients (RME) Seminar on Pediatric ME/CFS, Orthostatic Intolerance and Pediatric ME/CFS, Stockholm, Sweden, 12 November 2014.

OTHER PROFESSIONAL ACCOMPLISHMENTS

Team physician, North Baltimore Aquatic Club, Baltimore, MD, 2000-2007

Member, USA Swimming Sports Medicine and Science Network, 2004-

Board of Directors, North Baltimore Aquatic Club, 2011-12

Medical Council, Red Lily Foundation 2011 –

Scientific Advisory Board, SolveME/CFS Initiative, 2013 -

Research peer review activities

Grant reviewer for Ontario Ministry of Health, Children's Hospital of Eastern Ontario

Research Institute Science Committee, Medical Research Council (Canada), the National

Health Research Development Program (Canada), Canadian Institutes of Health Research,

National Institutes of Health, CFIDS Association of America.