

**T. DOUGLAS BRADLEY****September 8, 2010****CURRICULUM VITAE**

Date & Place of Birth: September 7, 1951  
 Vegreville, Alberta

Citizenship: Canadian

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<u>Current Hospital</u>	<u>Department/Division</u>	<u>Fields of Interest</u>
Toronto General Hospital	Department of Medicine Division of Respiriology	1. Sleep apnea syndrome 2. Congestive heart failure 3. Cardiopulmonary interactions
Toronto Rehabilitation Institute	Sleep Research Laboratory	

Education

<u>Degree</u>	<u>University</u>	<u>Year</u>
B.A.	University of Alberta	1973
M.D.	University of Alberta	1978

### Professional Qualifications

1. Licentiate of Medical Council of Canada. August 5, 1980.
2. Specialist Certificate in Internal Medicine for the Royal
3. College of Physicians and Surgeons, F.R.C.P.(C). November 1982.
4. Specialist Certificate in Respiratory Medicine for the Royal College of Physicians and Surgeons. November 19, 1985.

### Licensure:

Ontario, September 15, 1985

### Postgraduate Training:

<u>Date</u>	<u>Position</u>	<u>Department/Division</u>	<u>Hospital/Institute &amp; Address</u>
1978-1979	Intern	Medicine	Toronto Western Hospital/ U of T
1979-1980	Resident 2	Medicine	Toronto Western Hospital/ U of T
1980-1981	Resident 3	Medicine	Toronto General Hospital/U of T
Jul.1981- Jan.1982	Resident 4	Respirology	St. Michael's Hospital/U of T
Jan.1982- July 1982	Resident 4	Respirology	Toronto Western Hospital/ U of T
1982-1983	Resident 5	Respirology	Sleep Research Laboratory, Queen Elizabeth Hospital/U of T
1983-1984	Fellow of the Canadian Lung Association	Respirology	Sleep Research Laboratory, Queen Elizabeth Hospital/U of T
1984-1985	Fellow of the Medical Research Council of Canada	Respirology	Meakins-Christie Laboratories, McGill University, Montreal, Quebec

Academic Appointments:University of Toronto Appointments:

<u>Date</u>	<u>Position</u>	<u>Department</u>
1985-92	Assistant Professor	Medicine
1990-present	Member	Institute of Medical Science,
1990-present	Member	School of Graduate Studies
1991-present	Director of Sleep Research Program, Division of Respirology	Medicine
1991-present	Member	Collaborative Program in Cardiovascular Sciences
1992-97	Associate Professor	Medicine
1997-present	Professor	Medicine
2000-present	Director	Centre for Sleep Medicine and Circadian Biology

Hospital Appointments

<u>Date</u>	<u>Position</u>	<u>Department/Division</u>	<u>Hospital</u>
1985-present	Staff Physician	Medicine/Respirology	Toronto General Hospital, University Health Network
1986-present	Staff Physician (Consultant)	Medicine /Respirology	Mount Sinai Hospital
1986-present	Staff Physician (Consultant)	Medicine/Respirology	Sunnybrook and Women's Health Sciences Centre
1986-1991	Assistant Director of Sleep Research Laboratory	Medicine/Respirology	Toronto Rehabilitation Institute
1991-present	Director of	Medicine/Respirology	Toronto Rehabilitation

	Sleep Research Laboratory		Institute
1988-present	Director of Sleep Laboratory	Medicine/Respirology	Toronto General Hospital University Health Network
1995-present	Director of Cardiopulmonary Sleep Research Laboratory	Medicine/Respirology	Mount Sinai Hospital
1998-present	Director Cardiopulmonary Sleep Disorders and Research Centre	Medicine/Respirology	Toronto General Hospital, University Health Network
2004-present	Team Leader: Sleep and Cardiopulmonary Function Research	Medicine	Toronto Rehabilitation Institute

### Honours and Awards

1. Canadian Lung Association Research Fellowship 1983-84.
2. Medical Research Council of Canada Research Fellowship 1984-85.
3. First Prize, Toronto General Hospital, Resident Research Competition, 1983. "Nocturnal alveolar hypoventilation due to sleep-related tachypnea: successful treatment by electrophrenic diaphragmatic pacing."
4. First prize, Toronto General Hospital, Resident Research Competition, 1984. "The role of diffuse airways disease and obesity in the pathogenesis of right heart failure in obstructive sleep apnea."
5. Finalist, Cecile Lehman Mayer Research Competition, American College of Chest Physicians 1984. "The role of daytime hypoxemia in the pathogenesis of right heart failure in patients with obstructive sleep apnea."
6. Biographical Citation in "Canada's Who's Who", 1987, until present.
7. Career Scientist Award, Ontario Ministry of Health, 1988-1998.
8. Visiting Professor. Meakins-Christie Laboratories. February 8-10, 1988.

9. Biographical citation in "Dictionary of International Biography", 1991-present.
10. Visiting Professor. Tokai University School of Medicine. Tokyo, Japan. September 15-25, 1991.
11. Winner, 1992 University of Toronto Department of Medicine Research Award for paper entitled, "Obstructive sleep apnoea in patients with dilated cardiomyopathy: effect of continuous positive airway pressure."
12. Chief organizer and Chairman of the first **Canadian Resident - Fellow Respiratory Research Competition** held at Alton, Ontario, June 19-21, 1992. This competition was supported by an educational grant from Glaxo Pharmaceuticals of Canada.
13. Chief organizer and Chairman of the second **Canadian Resident -Fellow Respiratory Research Competition** held at Alton, Ontario, June 11-13, 1993. This competition was supported by an educational grant from Glaxo Pharmaceuticals of Canada.
14. Alberta Heritage Medical Research Foundation Visiting Professorship. University of Calgary Faculty of Medicine. November 28 - December 1, 1993.
15. Judge for the **Canadian Resident - Fellow Respiratory Research Competition**. Niagara on the Lake, Ontario. September 11-13, 1994.
16. Elected to membership in the **American Society for Clinical Investigation**, 1995.
17. Awarded the Donald and Lois Roon Visiting Lectureship for Heart, Lung and Vascular Research from the Scripps Research Foundation, La Jolla, California. 1996.
18. Judge for I.O.D.E. Ursula Bangs University of Toronto Division of Cardiology Resident Research Competition. May 14, 1998.
19. Visiting Professor of the Tohoku University Medical Society, Sendai, Japan and Keynote Speaker at the Japanese Respiratory Control Society, Tokyo, Japan. October 13-17, 1998.
20. Keynote Speaker of the Thoracic Society of Australia and New Zealand Annual Scientific Meeting, Canberra, Australia, and its Visiting Professor in Melbourne, Adelaide and Sydney Australia. February 23 - March 5, 1999.
21. An abstract submitted by my research group: Sin D, Fitzgerald F, Liu P, Logan AG, and Bradley TD. Effect of CPAP on mortality and cardiac transplant rates in patients with stable heart failure. *Am J Respir Crit Care Med* 1999;159 (part 2):A529, was chosen as the Showcase Abstract of the Respiratory Neurobiology and Sleep Assembly for the 1999 American Thoracic Society Meeting in San Diego, California.
22. Senior Scientist Award from the Canadian Institutes of Health Research, 2000-2005.

23. An abstract by my research group: Huber M, Rogge T, Leung RS, and Bradley TD. Association between idiopathic atrial fibrillation and idiopathic central sleep apnea. *Circulation* 2002;106:II-409, was chosen as the winner of Poster Presentation Award for the Electrophysiology section of the 2002 American Heart Association meeting in Chicago, Illinois.
24. An abstract by my research group: Arzt M, Young T, Finn L, Bradley TD. Prospective evaluation of the relationship between obstructive sleep apnea and stroke incidence. *Am J Respir Crit Care Med* (In Press), was chosen as one of the two Showcase Abstracts of the Respiratory Neurobiology and Sleep Assembly for the 2005 American Thoracic Society Meeting in San Diego, California.
25. University of Alberta Division of Pulmonary Medicine, Brian J. Spoule Visiting Lectureship, Edmonton, Alberta. "Nocturnal rostral fluid displacement: a unifying mechanism for obstructive and central sleep apnea in heart failure". December 16, 2009.

## Professional Affiliations and Activities

### A. Membership in Professional Societies

<u>Year since membership</u>	<u>Position:</u>	<u>Professional Society's Name</u>
1982	Fellow	Royal College of Physicians and Surgeons of Canada
1987	Member	American Physiological Society
1985	Member	American Thoracic Society
1985	Member	Ontario Thoracic Society
1990	Member	American Sleep Disorders Association
1992	Member	Canadian Thoracic Society
1992	Member	Canadian Sleep Society
1995	Member	American Society of Clinical Investigation

### B. Internal reviewer for the following granting agencies:

1. Member, Canadian Institutes of Health Research Respiratory System Grant Review Committee. 2009.

### E. Editorial Board Appointments

1. Member, Editorial Board of *Sleep* 2002 - present.
2. Associate Editor of the *American Journal of Respiratory and Critical Care Medicine* 2004 – 2009.

## Committees

### A. University of Toronto

1. Department of Medicine Research Committee. 2007-present

### B. Hospital

1. Member, University of Toronto Department of Medicine Task Force on Clinician Investigators. 2007-present.

### Research Endeavours

1. Pathophysiology of sleep apnea disorders.
2. Pathophysiologic interactions of sleep apnea and congestive heart failure.
3. Continuous positive airway pressure in the treatment of congestive heart failure.
4. Obstructive sleep apnea and refractory hypertension.
5. Pathophysiology and functional significance of sleep apnea in stroke.

### **Research Grants – presently held**

1. Canadian Institutes of Health Research operating grant (MOP-53284). J.S. Floras (Principal Investigator), T.D. Bradley, C. Chan, V. Dzavik (Co-investigators). Cardiovascular, autonomic, and neurohumoral impact of nocturnal hemodialysis. March 1, 2005 – April 30, 2010. \$878,620.
2. Canadian Institutes of Health Research operating grant (MOP-82731). T.D. Bradley (Principal Investigator), J.S. Floras, C. Chan and N. Paul (Co-investigators). Pathophysiology and treatment of sleep apnea in heart and renal failure. April 1, 2007 – March 31, 2012. \$664,735.
3. Heart and Stroke Foundation of Ontario operating grant (NA-6407). J.S. Floras (Principal Investigator), D. Kimerley and T.D. Bradley (Co-investigators). Central regulation of autonomic cardiovascular function in human heart failure and sleep apnea. July 1, 2008 – June 30, 2011. \$192,500.
4. Heart and Stroke Foundation of Ontario operating grant (NA-6327). A. G. Logan (Principal Investigator), T.D. Bradley (Co-investigator). Role of extravascular fluid volume in inducing obstructive sleep apnea in refractory hypertension. July 1, 2008 – June 30, 2010. \$106,801.
5. Canadian Institutes of Health Research/University-Industry randomized controlled clinical trial with Philips-Respironics Inc. as industry partner (IS2-95225). T.D. Bradley (Nominated Principal Applicant), J.S. Floras and A.G. Logan (Principal Applicants), E. Azevedo, R. Beanlands, D. Delgado, J.A., K.A. Ferguson, M. Fitzpatrick, J. Fleetham, P.J. Hanly, R.J. Kimoff, R.S.T. Leung, P. Mayer, D.L. Morrison, C.M. Ryan, F. Series, G.A. Tomlinson, A. Woo, M.T. Naughton, G. Lorenzi-Filho, J. Montserrat and J. Duran-Cantolla (Co-applicants). Adaptive servo ventilation for therapy of sleep apnea in heart failure. April 1, 2009 – March 31, 2014. \$7,449,398
6. Canadian Institutes of Health Research Meeting, Planning and Dissemination Grant (MCR-92664). T.D. Bradley (Principal Investigator). Meeting to organize an international consortium

for the study of sleep apnea and cardiovascular diseases. January 1, 2009 to January 1, 2010. \$10,000.

7. Heart and Stroke Foundation of Ontario operating grant (T-6926). A. G. Logan (Principal Investigator), T.D. Bradley (Co-investigator). Disturbed sleep and drug resistant hypertension: a pathophysiological study. July 1, 2010 to June 30, 2012. \$119,458.
8. MaRS Innovation Proof of Principle Program grant (Ref No. 2010-0138). Bradley TD (Principal Investigator), G. Fernie and H. Alshaer (Co-investigators). Acoustic monosomnography for diagnosis of sleep apnea at home. July 1, 2010 to March 31, 2011. \$42,750.

#### Patents Applied for or Awarded

1. U.S. Provisional Patent Application 61/193,320  
Filed: November 17, 2008  
Title: TRACKING PHASES OF THE BREATHING CYCLE BY FREQUENCY ANALYSIS OF ACOUSTIC DATA  
Inventors: Hisham Alshaer, Geoffrey Roy Fernie and T. Douglas Bradley
2. U.S. Provisional Patent Application 61/272,460  
Filed: September 28, 2009  
Title: APPARATUS AND METHOD FOR DIAGNOSING OBSTRUCTIVE SLEEP BREATHING DISORDERS USING ACOUSTIC DATA  
Inventors: Hisham Alshaer, Geoffrey Roy Fernie and T. Douglas Bradley

## **PUBLICATIONS**

### Peer Reviewed Papers (Published or In Press)

1. **Bradley TD**, Day A, Hyland RH, Webster P, Rutherford R, McNicholas WT, Phillipson EA. Chronic ventilatory failure due to abnormal respiratory pattern generation during sleep. *Am Rev Respir Dis* 1984;130:678-680.
2. Goldstein RS, Ramcharan V, Bowes G, McNicholas WT, **Bradley TD**, Phillipson EA. The effect of supplemental nocturnal oxygen on gas exchange in patients with severe obstructive lung disease. *N Engl J Med* 1984;310:425-429.
3. Williams T, Reilly P, Thomas P, **Bradley TD**. Modifying delivery techniques of fenoterol from a metered dose inhaler. *Ann Allergy* 1984;52:270-281.
4. **Bradley TD**, Rutherford R, Grossman RF, Lue F, Zamel N, Moldofsky H, Phillipson EA. The role of daytime hypoxemia in the pathogenesis of right heart failure in patients with obstructive sleep apnea. *Am Rev Respir Dis* 1985;131:835-839.
5. Brown IG, **Bradley TD**, Phillipson EA, Zamel N, Hoffstein V. Pharyngeal compliance in snoring subjects with and without obstructive sleep apnea. *Am Rev Respir Dis* 1985;132:211-215.
6. **Bradley TD**, Martinez D, Rutherford R, Lue F, Grossman RF, Moldofsky H, Zamel H, Phillipson EA. Physiological determinants of nocturnal arterial oxygenation in patients with obstructive sleep apnea. *J Appl Physiol* 1985;59:1364-1368.
7. **Bradley TD**, McNicholas WT, Rutherford R, Popkin J, Zamel N, Phillipson EA. Clinical and physiological heterogeneity of the central sleep apnea syndrome. *Am Rev Resp Dis* 1986;134:217-221.
8. **Bradley TD**, Rutherford R, Lue F, Moldofsky H, Grossman RF, Zamel N, Phillipson EA. Role of diffuse airways obstruction in the hypercapnia of obstructive sleep apnea. *Am Rev Respir Dis* 1986;134:920-924.
9. **Bradley TD**, Brown IG, Grossman RF, Zamel N, Martinez D, Phillipson EA, Hoffstein V. Pharyngeal size in snorers, non-snorers, and patients with obstructive sleep apnea. *New Engl J Med* 1986;315:1327-1331.
10. **Bradley TD**, Chartrand DA, Fitting JW, Killian KJ, Grassino A. The relation of inspiratory effort sensation to fatiguing patterns of the diaphragm. *Am Rev Respir Dis* 1986;134:1119-1124.

11. **Bradley TD**, Brown IG, Zamel N, Phillipson EA, Hoffstein V. Differences in pharyngeal properties between snorers with predominantly central sleep apnea and those without sleep apnea. *Am Rev Respir Dis* 1987;135:387-391.
12. Fitting JW, Chartrand DA, **Bradley TD**, Killian KJ, Grassino A. Effect of thoracoabdominal breathing patterns on the sensation of inspiratory effort. *J Appl Physiol* 1987;62:1665-1670.
13. **Bradley TD**, Chartrand DA, Fitting JW, Comtois A, Grassino A. Effect of transdiaphragmatic pressure partitioning on activation and fatigue of the diaphragm. *Am Rev Respir Dis* 1988; 137:1395-1400.
14. Fitting JW, **Bradley TD**, Easton PA, Lincoln MJH, Goldman MD, Grassino A. Dissociation between diaphragmatic and rib cage muscle fatigue. *J Appl Physiol* 1988;64:959-965.
15. Levy RD, **Bradley TD**, Newman SL, Macklem PT, Walsh JT, Martin JG. Negative pressure ventilation: effects on ventilation during sleep in normal subjects. *Chest* 1989;95:95-99.
16. D'Urzo AD, Mateika J, **Bradley TD**, Li D, Contreras M, Goldstein RS. Correlates of arterial oxygenation during exercise in severe chronic obstructive pulmonary disease. *Chest* 1989;95: 13-17.
17. Rubinstein S, Hoffstein V, **Bradley TD**. Lung volume-related change in pharyngeal area in obese females with and without obstructive sleep apnea. *Eur Respir J* 1989;2:344-351.
18. Takasaki Y, Orr D, Popkin J, **Bradley TD**. Effect of hypercapnia and hypoxia on respiratory muscle activation in humans. *J Appl Physiol* 1989;67:1776-1784.
19. Takasaki Y, Orr D, Popkin J, Rutherford R, Liu P, **Bradley TD**. Effect of nasal continuous positive airway pressure on sleep apnea in congestive heart failure. *Am Rev Respir Dis* 1989;140: 1578-1584.
20. Rubinstein I, **Bradley TD**, Zamel N, Hoffstein V. Glottic and cervical tracheal narrowing in patients with obstructive sleep apnea. *J Appl Physiol* 1989;67:2427-2431.
21. **Bradley TD**, Mateika J, Li D, Avendano M, Goldstein RS. The role of daytime hypercapnia in the development of nocturnal hypoxemia in chronic obstructive pulmonary disease. *Chest* 1990;97: 308-312.
22. Hoffstein V, Wright S, Zamel N, **Bradley TD**. Pharyngeal function and snoring characteristics in apneic and non-apneic snorers. *Am Rev Respir Dis* 1991;143:1294-1299.
23. Xie A, Takasaki Y, Popkin J, Orr D, **Bradley TD**. Chemical and postural influence on scalene and diaphragmatic activation in humans. *J Appl Physiol* 1991;70:658-684.

24. Yasuma F, Kozar LF, Kimoff RJ, **Bradley TD**, Phillipson EA. Interaction of chemical and mechanical respiratory stimuli in the arousal response to hypoxia in sleeping dogs. *Am Rev Respir Dis* 1991;143:1274-1277.
25. Malone S, Liu PP, Holloway R, Rutherford R, Xie A, **Bradley TD**. Obstructive sleep apnoea in patients with dilated cardiomyopathy: effects of continuous positive airway pressure. *Lancet* 1991; 338:1480-1484.
26. **Bradley TD**, Holloway RM, McLaughlin PR, Ross BL, Walters J, Liu PP. Cardiac output response to continuous positive airway pressure in congestive heart failure. *Am Rev Respir Dis* 1992; 145(part 1):377-382.
27. Benard DC, Naughton MT, **Bradley TD**. Administration of continuous positive airway pressure to patients with congestive heart failure and Cheyne-Stokes respiration. *J Polysomnography* 1992;Dec:9-11.
28. **Bradley TD**, Shapiro CM. Unexpected presentations of sleep apnoea: use of CPAP in treatment. *Br Med J* 1993;306:1260-1262.
29. Yasuma F, Kimoff RJ, England SJ, **Bradley TD**, Phillipson EA. Abdominal muscle activation by respiratory stimuli in conscious dogs. *J Appl Physiol* 1993;74:16-23.
30. Kimoff RJ, Kozar LF, Yasuma F, **Bradley TD**, Phillipson EA. Effect of inspiratory unloading on arousal response to CO<sub>2</sub> and hypoxia in sleeping dogs. *J Appl Physiol* 1993;74:1325-1336.
31. Xie A, Takasaki Y, Popkin J, Orr D, **Bradley TD**. Influence of body position on pressure and airflow generation during hypoxia and hypercapnia. *J Physiol (London)* 1993;465:477-487.
32. Xie A, Takasaki Y, **Bradley TD**. Influence of body position on diaphragm and scalene activation during hypoxic rebreathing in humans. *J Appl Physiol* 1993;75:2234-2238.
33. Naughton MT, Benard D, Tam A, Rutherford R, **Bradley TD**. The role of hyperventilation in the pathogenesis of central sleep apnea in patients with congestive heart failure. *Am Rev Respir Dis* 1993;148:330-338.
34. Xie A, Wong B, Phillipson EA, Slutsky AS, **Bradley TD**. Interaction of hyperventilation and arousal in the pathogenesis of idiopathic central sleep apnea. *Am J Respir Crit Care Med* 1994;150:489-495.
35. Naughton MT, Benard DC, Rutherford R, **Bradley TD**. Effect of continuous positive airway pressure on central sleep apnea and nocturnal PCO<sub>2</sub> in heart failure. *Am J Resp Crit Care Med* 1994;150:1598-1604.

36. De Hoyos A, Liu PP, Benard DC, **Bradley TD**. Hemodynamic effects of continuous positive airway pressure in humans with normal and impaired left ventricular function. *Clin Sci* 1995;88:173-178.
37. Naughton MT, Liu PP, Benard DC, Goldstein RS, **Bradley TD**. Treatment of congestive heart failure and Cheyne-Stokes respiration during sleep by continuous positive airway pressure. *Am J Respir Crit Care Med* 1995;151:92-97.
38. Butler G, Naughton MT, Rahman A, Senn B, Benard D, **Bradley TD**, Floras JS. Acute effects of continuous positive airway pressure on heart rate variability in congestive heart failure. *J Am Coll Cardiol* 1995;25:672-679.
39. Naughton MT, Rahman A, Hara K, Floras JS, **Bradley TD**. Effects of continuous positive airway pressure on intrathoracic and left ventricular transmural pressure in congestive heart failure. *Circulation* 1995;91:1725-1731.
40. Naughton MT, Benard DC, Liu PP, Rutherford R, Rankin F, **Bradley TD**. Effects of nasal CPAP on sympathetic activity in patients with heart failure and central sleep apnea. *Am J Respir Crit Care Med* 1995;152:473-479.
41. Xie A, Rutherford R, Rankin F, Wong B, **Bradley TD**. Hypocapnia and increased ventilatory responsiveness in patients with idiopathic central sleep apnea. *Am J Respir Crit Care Med* 1995;152:1950-1955.
42. Granton JT, Benard DC, Naughton MT, Goldstein RS, Liu PP, **Bradley TD**. CPAP improves inspiratory muscle strength in patients with heart failure and central sleep apnea. *Am J Respir Crit Care Med* 1996;153:277-282.
43. Hall MJ, Xie A, Rutherford R, Ando SI, Floras JS, **Bradley TD**. Cycle length of periodic breathing in patients with and without heart failure. *Am J Respir Crit Care Med* 1996;154:376-381.
44. **Bradley TD**, Floras JS. Pathophysiologic and therapeutic implications of sleep apnea in congestive heart failure. *J Cardiac Failure* 1996;2:223-240.
45. George CFP, **Bradley TD**, Broughton R, Fleetham J, Lutley-Borland K, MacFarlane J, Moldofsky H, Smith C, Herbert A, Balter M, Bowie D, Fitzgerald M, Ford G, Leblanc P. Consensus Statement for the Canadian Sleep Society and the Canadian Thoracic Society: Standards for polysomnography in Canada. *Can Med Assoc J* 1996;155:1673-1678.
46. Xie A, Rankin F, Rutherford R, **Bradley TD**. Effects of inhaled CO<sub>2</sub> and added deadspace on idiopathic central sleep apnea. *J Appl Physiol* 1997;82:918-926.

47. Tkacova R, Liu PP, Naughton MT, Benard DC, **Bradley TD**. Effects of continuous positive airway pressure on atrial natriuretic peptide and mitral regurgitant fraction in patients with heart failure and central sleep apnea. *J Am Coll Cardiol* 1997;30:739-45.
48. Tkacova R, Hall MJ, Liu PP, Fitzgerald FS, **Bradley TD**. Left ventricular volume in patients with heart failure and Cheyne-Stokes respiration during sleep. *Am J Respir Crit Care Med* 1997;156:1549-1555.
49. **Bradley TD**, Young T, Strohl KP. American Thoracic Society/American Sleep Disorders Association Statement on Health Outcomes Research in Sleep Apnea. *Am J Respir Crit Care Med* 1998;157:335-341.
50. Naughton MT, Floras JS, Rahman MA, Jamal M, **Bradley TD**. Respiratory correlates of muscle sympathetic nerve activity in heart failure. *Clin Sci* 1998;95:277-285.
51. Tkacova R, Rankin F, Fitzgerald FS, Floras JS, **Bradley TD**. Effects of continuous positive airway pressure on obstructive sleep apnea and left ventricular afterload in patients with heart failure. *Circulation* 1998;96:2269-2275.
52. Hall MJ, Ando SI, Floras JS, **Bradley TD**. Magnitude and time course of hemodynamic responses to Mueller maneuvers in patients with congestive heart failure. *J Appl Physiol* 1998;85:1476-1484.
53. Lorenzi-Filho G, Dajani HR, Leung RST, Floras JS, **Bradley TD**. Entrainment of blood pressure and heart rate oscillations by periodic breathing. *Am J Respir Crit Care Med* 1999;159:1147-1154.
54. Lorenzi-Filho G, Rankin F, Bies I, **Bradley TD**. Effects of inhaled carbon dioxide and oxygen on Cheyne-Stokes respiration in patients with heart failure. *Am J Respir Crit Care Med* 1999;159:1490-1498.
55. Sin D, Fitzgerald F, Parker JD, Newton G, Floras JS, **Bradley TD**. Risk factors for central and obstructive sleep apnea in 450 men and women with congestive heart failure. *Am J Respir Crit Care Med* 1999;160:1101-1106.
56. Parker JD, Brooks D, Kozar LF, Render-Teixeira CL, Horner RL, **Bradley TD**, Phillipson EA. Acute and chronic effects of airway obstruction on left ventricular performance. *Am J Respir Crit Care Med* 1999;160:1888-1896.
57. Leung RS, **Bradley TD**. Long-term treatment of refractory congestive heart failure by continuous positive airway pressure. *Can J Cardiol* 1999;15:1009-1012.(Accompanied by an Editorial).

58. Mehta S, Liu PP, Fitzgerald FS, Allidina Y, **Bradley TD**. Effects of continuous positive airway pressure on cardiac volumes in patients with ischemic and dilated cardiomyopathy. *Am J Respir Crit Care Med* 2000;161:128-134.
59. **Bradley TD**. Continuous positive airway pressure for the treatment of congestive heart failure. *Can Med Assoc J* 2000;162:535-536.
60. Sin DD, Logan AG, Fitzgerald FS, Liu PP, **Bradley TD**. Effects of continuous positive airway pressure on cardiovascular outcomes in heart failure patients with and without Cheyne-Stokes Respiration. *Circulation* 2000;102:61-66.
61. Tkacova R, Dajani HR, Rankin F, Fitzgerald FS, Floras JS, **Bradley TD**. Continuous positive airway pressure improves nocturnal baroreflex sensitivity of patients with heart failure and obstructive sleep apnea. *J Hypertension* 2000;18:1257-1262.
62. Trinder J, Merson R, Rosenberg JI, Fitzgerald F, Kleiman J, **Bradley TD**. Interactions of ventilation, arousals and blood pressure oscillations during Cheyne-Stokes respiration in patients with heart failure. *Am J Respir Crit Care Med* 2000;162:808-813.
63. Tkacova R, Niroumand M, Lorenzi-Filho G, **Bradley TD**. Overnight shift from obstructive to central apneas in patients with heart failure: role of PCO<sub>2</sub> and circulatory delay. *Circulation* 2001;103:238-243.
64. **Bradley TD**, Hall MJ, Ando SI, Floras JS. Hemodynamic effects of simulated obstructive apneas in subjects with and without heart failure. *Chest* 2001;119:1827-1835.
65. **Bradley TD**, Logan AG, Floras JS for the CANPAP Investigators. Rationale and design of the Canadian Positive Airway Pressure Trial for patients with congestive heart failure and central sleep apnea – The CANPAP Trial. *Can J Cardiol* 2001;17:677-684.
66. Logan AG, Perlikowski SM, Mente A, Tisler A, Tkacova R, Niroumand M, Leung RS, **Bradley TD**. High prevalence of obstructive sleep apnea in drug resistant hypertension. *J Hypertension* 2001;19:2271-2277.
67. Leung RST, **Bradley TD**. State of the art review. Sleep apnea and cardiovascular disease. *Am J Respir Crit Care Med* 2001;164:2147-2165.
68. Lorenzi-Filho G, Azevedo ER, Parker JD, **Bradley TD**. Relationship of PaCO<sub>2</sub> to pulmonary wedge pressure in heart failure. *Eur Respir J* 2002;19:37-40.
69. Logan AG, Tkacova R, Perlikowski SM, Leung RS, Tisler A, Floras JS, **Bradley TD**. Refractory hypertension and sleep apnea: effect of CPAP on blood pressure and baroreflex. *Eur Respir J* 2003;21:241-247.

70. Leung RST, Bowman ME, Parker JD, Newton GE, **Bradley TD**. Avoidance of the left lateral decubitus position during sleep in patients with heart failure: relationship to cardiac size and function. *J Am Coll Cardiol* 2003;41:227-230.
71. **Bradley TD**, Tkacova R, Hall MJ, Ando SI, Floras JS. Augmented sympathetic neural response to simulated obstructive apnea in human heart failure. *Clin Sci* 2003;104:231-238.
72. Kaneko Y, Floras JS, Usui K, Plante J, Tkacova R, Kubo T, Ando S, **Bradley TD**. Cardiovascular effects of continuous positive airway pressure in patients with heart failure and obstructive sleep apnea. *N Engl J Med* 2003;348:1233-1241.
73. Kaneko Y, Hajek VE, Zivanovic V, **Bradley TD**. Relationship of sleep apnea to functional capacity and length of hospitalization following stroke. *SLEEP* 2003;26:293-297.
74. Leung RST, Floras JS, Lorenzi-Filho G, Rankin F, Picton P, **Bradley TD**. Influence of Cheyne-Stokes respiration on cardiovascular oscillations in heart failure. *Am J Respir Crit Care Med* 2003;167:1534-1539.
75. Sin DD, Fitzgerald F, Parker JD, Newton GE, Logan AG, Floras JS, **Bradley TD**. Relationship of systolic blood pressure to obstructive sleep apnea in patients with congestive heart failure. *Chest* 2003;123:1536-1543.
76. Leung RST, Diep TM, Bowman ME, Lorenzi-Filho G, **Bradley TD**. Provocation of ventricular ectopy by Cheyne-Stokes respiration in patients with heart failure. *SLEEP* 2004;27:1337-1343.
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### **Non-Refereed Publications**

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#### Book Chapters and Monographs

1. **Bradley TD**, Phillipson EA. The pathophysiology of obstructive sleep apnea. *Med Clin N Am* 1985;69:1169-1185.
2. **Bradley TD**, Takasaki Y, Orr D, Popkin J, Liu P, Rutherford R. Sleep apnea in patients with left ventricular dysfunction: beneficial effects of nasal CPAP. In eds. Issa FG, Suratt PM, Remmers JE. *Sleep and Respiration*. Wiley-Liss, New York 1990: 363-370.
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19. Yumino D, Floras JS, **Bradley TD**. Pathophysiologic interactions between sleep apnea and congestive heart failure. In: **Bradley TD, Floras JS**, eds. **SLEEP APNEA: IMPLICATIONS IN CARDIOVASCULAR AND CEREBROVASCULAR DISEASE**. Second Edition. Vol. 231. New York: Informa Healthcare USA, Inc. 2010, pp: 302-336.

#### Books Edited

1. Phillipson EA, **Bradley TD**, editors. **BREATHING DISORDERS IN SLEEP**. Clin Chest Med. Philadelphia: Saunders, 1992 volume 13 no. 3.
2. **Bradley TD**, Floras JS, editors. **SLEEP APNEA: IMPLICATIONS IN CARDIOVASCULAR AND CEREBROVASCULAR DISEASE. Lung Biology in Health and Disease. Vol. 146**. New York: Marcel Dekker 2000.
3. **Bradley TD**, Floras JS, editors. **SLEEP APNEA: IMPLICATIONS IN CARDIOVASCULAR AND CEREBROVASCULAR DISEASE**. Second Edition. Vol. 231. New York: Informa Healthcare USA, Inc. 2010.

### Selected Invited Presentations

1. Kingston General Hospital, Queen's University, Kingston, Ontario. "Obstructive sleep apnea, hypertension, and heart failure." January 27, 2005.
2. Kingston General Hospital, Queen's University, Kingston, Ontario. "Central sleep apnea in heart failure: pathophysiology and treatment." January 27, 2005.
3. American College of Cardiology annual meeting, Orlando, Florida. Late Breaking Clinical Trials: "Continuous Positive Airway Pressure for Heart Failure Patients With Central Sleep Apnea (CANPAP)". March 8, 2005.
4. University at Buffalo School of Medicine, Jacobs Neurological Institute, Buffalo, New York. A New Frontier in Medicine – Snoring, Sleep Apnea, the Heart and Hypertension: No Longer a "Silent Killer". "Obstructive sleep apnea, hypertension and heart failure". March 9, 2005.
5. Tufts University School of Medicine, Boston, Massachusetts. Symposium on: New Trends in Mechanical Ventilation 2005:  
"Periodic breathing in congestive heart failure"
6. "How to treat sleep-disordered breathing in CHF patients"
7. "Sleep-disordered breathing and stroke"  
April 15, 2005.
8. American Thoracic Society Annual Meeting, San Diego, California. Symposium on: Moving towards Best Practice: Where Does the Diagnosis and Treatment of Sleep Related Pathology Fit in the Care of Heart Failure. "The evidence for diagnosis and therapy of sleep disordered breathing in the heart failure patient". May 22, 2005.
9. University of Regensburg, Regensburg, Germany. Symposium on Sleep Apnea and Cardiovascular Diseases, Quo Vadis? "CANPAP Trial: Consequences for the clinic". July 2, 2005.
10. Toronto Critical Care Symposium, Toronto, Ontario. Symposium on: Mechanical Ventilation II. "Targeting cardiac failure: Positive airway pressure in the treatment of acute cardiogenic pulmonary edema". October 26, 2005.
11. Canadian Thoracic Society Meeting on Clinical Practice Guidelines for Diagnosis and Treatment of sleep-Related Breathing Disorders, Montreal Quebec. "Guidelines for treatment of obstructive and central sleep apnea in patients with heart failure". October 28, 2005.

12. Canadian Respiratory Clinical Research Consortium (CRCRC), Montreal, Quebec. "Proposal for a randomized trial of CPAP for therapy of OSA in patients with heart failure". October 29, 2005.
13. Canadian Respiratory Clinical Research Consortium (CRCRC), Montreal, Quebec. "The CANPAP Trial: challenges and rewards of a multi-centre trial". October 29, 2005.
14. American College of Chest Physicians Post-Graduate Course on Cardiovascular Disorders in Obstructive sleep apnea Syndrome, Montreal, Quebec. "Impact of CPAP therapy on cardiovascular disorders in OSAS". October 30, 2005.
15. Triological Society-Eastern Section Scientific Meeting, Toronto, Ontario. Keynote Speaker: "Obstructive sleep apnea and cardiovascular disease: a two-way street". January 21, 2006
16. Marburg Conference on Sleep Apnea and Cardiovascular Diseases, Marburg, Germany. "CPAP and heart failure – results of the CANPAP Trial". April 8, 2006.
17. American Academy of Sleep Medicine's Diagnosis and Treatment of Sleep Related Breathing Disorders Course, Richmond, Virginia. "Pathophysiology of central sleep-related breathing disorders". April 29, 2006.
18. American Society of Hypertension annual meeting, New York, New York. Symposium on Vascular Consequences of Sleep-Disordered Breathing. "Sleep-disordered breathing and target organ damage". May 17, 2006.
19. American Thoracic Society Annual Meeting, San Diego, California. Postgraduate Course on: Management of Commonly Encountered Sleep Disorders: Controversies and Consensus. "CSA, OSA and congestive heart failure: What is the state of the art?" May 20, 2006.
20. American College of Cardiology CME course: The Ninth Toronto International Heart Failure Summit – From Pathophysiology to Clinical Practice. Toronto, Ontario. "Sleep apnea in heart failure and role of CPAP". June 14, 2006.
21. Wayne State School of Medicine CME Course on: 2<sup>nd</sup> Annual Conference on Pulmonary, Critical Care and Sleep Medicine, Boyne Falls, Michigan. "Sleep apnea and heart failure: results of the CANPAP study". August 12, 2006.
22. American Academy of Sleep Medicine, National Sleep Medicine Course, Chicago, Illinois. "OSA and cardiovascular complications". August 14, 2006.
23. American Academy of Sleep Medicine, National Sleep Medicine Course, Chicago, Illinois. "Sleep and heart failure". August 14, 2006.
24. Cleveland Clinic Foundation CME course: Fourth Annual Atrial Fibrillation Summit. Aspen, Colorado. "Sleep apnea and atrial fibrillation". September 17, 2006.

25. World Congress on Sleep Apnea, Montreal, Quebec. Chair of Symposium on :Clinical Trials in Sleep Apnea: Outcomes. “Obstructive sleep apnea and cardiovascular complications: lessons learned from CANPAP”. September 24, 2006.
26. World Congress on Sleep Apnea, Montreal, Quebec. “The CANPAP Trial: Effects of CPAP on central sleep apnea, cardiovascular function and mortality in heart failure.” September 24, 2006.
27. Hong Kong Society of Sleep Medicine Annual Scientific Meeting, Hong Kong. “Sleep and the heart”. October 28, 2006.
28. 3<sup>rd</sup> Asia Pacific Congress on Heart Failure, Taipei, Taiwan. “Influence of CPAP on morbidity and mortality in heart failure patients with obstructive or central sleep apnea”. October 29, 2006.
29. National Taiwan University Hospital Medical Grand Rounds, Taipei, Taiwan. “Influence of obstructive sleep apnea and of its treatment on cardiovascular function in patients with heart failure”. October 30, 2006.
30. China Medical University Hospital Medical Grand Rounds, Taichung, Taiwan. “Role of obstructive sleep apnea in the pathogenesis and treatment of cardiovascular diseases”. November 1, 2006.
31. Brigham and Womens’ Medical Center Sleep Medicine Grand Rounds, Harvard University, Boston, Massachusetts. “Influence of CPAP on cardiovascular outcomes in heart failure patients with central or obstructive sleep apnea”. November 13, 2006.
32. Canadian Respiratory Clinical Research Consortium (CRCRC), Calgary, Alberta. “Protocol for a randomized trial of CPAP for therapy of obstructive sleep apnea in patients with heart failure”. November 17, 2006.
33. Tokyo Women’s University Hospital Cardiology Grand Rounds, Tokyo, Japan. “Central and obstructive sleep apnea in heart failure: prognostic and therapeutic implications.” February 23, 2007.
34. Japanese Cardiology Society Working Group Symposium on Positive Pressure Therapy for Heart Failure, Tokyo, Japan. “Positive airway pressure therapy of central and obstructive sleep apnea in heart failure.” February 24, 2007.
35. Canadian Institutes of Health Research-Institute of Cardiovascular and Respiratory Health Town Hall Symposium, Toronto, Ontario. “Sleep apnea and the failing heart: a cardio-respiratory health issue.” February 28, 2007.

36. American Thoracic Society Annual Meeting, San Francisco, California. Symposium on Vascular Homeostasis in OSA. "Cerebrovascular dysfunction in OSA". May 20, 2007.
37. American Thoracic Society Annual Meeting, San Francisco, California. Symposium on Controversies in Pulmonary and Critical Care Medicine. Pro/Con Debates. "Pro: Sleep apnea causes cardiovascular complications." May 21, 2007.
38. American Thoracic Society Annual Meeting, San Francisco, California. Symposium on Multicenter Trials in Sleep and Sleep Disordered Breathing Around the World. "Lessons from the CANPAP Trial". May 21, 2007.
39. Canadian Institutes of Health Research-Institute of Cardiovascular and Respiratory Health Leadership Meeting, Toronto, Ontario. "Sleep apnea and the failing heart: pathophysiological and therapeutic implications." June 5, 2007.
40. American Academy of Sleep Medicine National Sleep Medicine Course, Denver, Colorado. "Cardiovascular consequences of sleep apnea." August 7, 2007.
41. American Academy of Sleep Medicine National Sleep Medicine Course, Denver, Colorado. "Sleep and congestive heart failure." August 7, 2007.
42. 10<sup>th</sup> International Sleep and Breathing Meeting, Palm Cove, Queensland, Australia. Chair of Symposium on: Building Capacity for Future Randomized Clinical Trials Through National and International Networks. September 1, 2007.
43. 10<sup>th</sup> International Sleep and Breathing Meeting, Palm Cove, Queensland, Australia. Symposium on: Building Capacity for Future Randomized Clinical Trials Through National and International Networks. "Beyond CANPAP". September 1, 2007.
44. WorldSleep 07 Congress, Cairns, Queensland, Australia. Panel Member for Symposium on: Strategies for Development of Multi-centre Randomized Trials for Sleep-disordered Breathing. September 2, 2007.
45. WorldSleep 07 Congress, Cairns, Queensland, Australia. Symposium on Diagnosis and Treatment of Complex Sleep-disordered Breathing. "Therapy of complex breathing patterns: central-obstructive sleep apnea". September 2, 2007.
46. American Heart Association Annual Meeting, Orlando, Florida. Symposium on Sleep Disorders and Cardiovascular Diseases. "Sleep apnea as a risk factor for cardiovascular diseases". November 6, 2007.
47. McGill University Respiriology Grand Rounds, Montreal General Hospital, Montreal, Quebec. "Rostral fluid displacement from the legs to the neck: a new paradigm in the pathogenesis of obstructive sleep apnea". January 28, 2008.

48. Respiratory Research Rounds, Meakins-Christie Laboratories, McGill University, Montreal, Quebec. "Rostral fluid displacement from the legs to the neck: a new paradigm in the pathogenesis of obstructive sleep apnea". January 28, 2008.
49. American College of Cardiology Meeting, Chicago, Illinois. Symposium on Sleep Apnea and Heart Failure. "Sleep apnea and systemic hypertension". April 1, 2008.
50. American College of Cardiology Meeting, Chicago, Illinois. Symposium on Sleep Apnea and Heart Failure. "Obstructive sleep apnea and heart failure: impact of therapy". April 1, 2008.
51. American Thoracic Society Annual Meeting, Toronto, Ontario. Co-Chair, Post-Graduate Course on: Cardiovascular Consequences of Sleep-Disordered Breathing. May 16, 2008.
52. American Thoracic Society Annual Meeting, Toronto, Ontario. Post-Graduate Course on: Cardiovascular Consequences of Sleep-Disordered Breathing, "Treatment of sleep-disordered breathing in CHF". May 16, 2008.
53. American Thoracic Society Annual Meeting, Toronto, Ontario. Mini-Symposium on: Obstructive Sleep Apnea and Cardiovascular Outcomes: A Translational Approach. Featured Speaker, "Cardiovascular consequences of obstructive sleep apnea: what is known in humans". May 19, 2008.
54. American Thoracic Society Annual Meeting, Toronto, Ontario. Meet the Professor Seminar. Sleep and Heart Failure: How Should Patients be Managed? May 20, 2008.
55. Spanish Respiratory Society (SEPAR) Meeting, Tenerife, Canary Islands, Spain. "Pathophysiological consequences of sleep apnea in patients with heart failure". June 1, 2008.
56. Spanish Respiratory Society (SEPAR) Meeting, Tenerife, Canary Islands, Spain. "Therapeutic approach to central sleep apnea and Cheyne-Stokes respiration in patients with heart failure". June 1, 2008.
57. Spanish Respiratory Society (SEPAR) Meeting, Tenerife, Canary Islands, Spain. "The role of fluid displacement into the upper airway in the pathogenesis of obstructive sleep apnea". June 2, 2008.
58. Associated Professional Sleep Societies Annual Meeting, Baltimore, Maryland. Symposium on Complicated Sleep-Related Breathing Problems: "Pathophysiology of central sleep apnea and Cheyne-Stokes respiration". June 9, 2008.
59. Heart Failure Association of the European Society of Cardiology: Heart Failure 2008, Milan, Italy. Symposium on Management of Heart Failure Beyond Medical Treatment: "Sleep-disordered breathing: treatment". June 17, 2008.

60. CIHR New Frontiers Program on Sleep Research, Montreal, Quebec. "Impact of sleep disordered breathing on cardiovascular diseases". June 25, 2008.
61. University of Regensburg, Regensburg, Germany. Symposium on Sleep Medicine, Quo Vadis? "Treatment of central and obstructive sleep apnea in heart failure: future directions". June 28, 2008.
62. CIHR Institute of Cardiovascular and Respiratory Health/Canadian Sleep Society/Brock University sponsored Café Scientifique on Sleep Disorders. Niagara-on-the-Lake, Ontario. Member of Experts Panel on "Sleep apnea and cardiovascular risk". October 2, 2008.
63. American Congress of Rehabilitation Medicine, Toronto, Ontario. Symposium on Sleep and Neurological Rehabilitation. "Prevalence and functional significance of sleep apnea in patients with stroke". October 17, 2008.
64. Novartis Sleeping Disorders, Diabetes and Cardiovascular Symposium, Dublin, Ireland. "Overview of AHA and ACC scientific statement on sleep apnea and cardiovascular disease." November 5, 2008.
65. Novartis Sleeping Disorders, Diabetes and Cardiovascular Symposium, Dublin, Ireland. "Mechanisms underlying the links between sleep deprivation and metabolic disorders and how this contributes to cardiovascular risk". November 6, 2008.
66. State University of Sao Paulo Incor Heart Institute, Cardiology Research Rounds, Sao Paulo, Brazil. "Obstructive sleep apnea and cardiovascular disease". November 21, 2008.
67. State University of Sao Paulo Incor Heart Institute, Fourth Symposium on Coronary Artery Disease, Sao Paulo, Brazil. "Obstructive sleep apnea and cardiovascular disease". November 21, 2008.
68. 34<sup>th</sup> Brazilian Thoracic Society Congress, Brasilia, Brazil. "Treatment of central sleep apnea". November 23, 2008.
69. 34<sup>th</sup> Brazilian Thoracic Society Congress, Brasilia, Brazil. "The role of overnight fluid displacement from the legs to the neck in the pathogenesis of obstructive sleep apnea". November 24, 2008.
70. 34<sup>th</sup> Brazilian Thoracic Society Congress, Brasilia, Brazil. "Pathophysiological interactions between sleep apnea and heart failure". November 24, 2008.
71. Taiwanese Society for Pulmonary and Critical Care Medicine, Taipei, Taiwan. "Obstructive and central sleep apnea in heart failure". December 14, 2008.
72. Chang Gang Memorial Hospital Medical Grand Rounds, Kaohsiung, Taiwan. "Treatment of central and obstructive sleep apnea in patients with heart failure". December 16, 2008.

73. Ontario Thoracic Society Better Breathing Conference, Toronto, Ontario. State of the Art in Respiratory Medicine Symposium: “Cardiopulmonary interactions between sleep apnea and the failing heart”. January 30, 2009.
74. 9<sup>th</sup> World Congress on Sleep Apnea, Seoul, South Korea. Chair for Symposium on Breathless Night in Failing Heart. “Putting pressure on the heart”. March 26, 2009.
75. 9<sup>th</sup> World Congress on Sleep Apnea, Seoul, South Korea. Meet the Professor Seminar. “Beyond CANPAP”. March 28, 2009.
76. University of Manitoba Health Sciences Centre Respiriology Grand Rounds, Winnipeg Manitoba. “Role of rostral fluid redistribution in the pathogenesis of obstructive and central sleep apnea in heart failure”. April 16, 2009.
77. University of Manitoba Health Sciences Centre Sleep Research Rounds, Winnipeg, Manitoba. “Positive airway pressure for the treatment of obstructive sleep apnea in patients with heart failure”. April 16, 2009.
78. Canadian Respiratory Clinical Research Consortium meeting, Toronto, Ontario. “Treating sleep apnea in heart failure patients: a randomized controlled clinical trial”. April 23, 2009.
79. Canadian Respiratory Conference, Toronto, Ontario. “Fluid redistribution: a unifying hypothesis for sleep apnea and cardiovascular disease”. April 24, 2009.
80. Canadian Respiratory Conference, Toronto, Ontario. Symposium on Canadian Thoracic Society Guidelines for the Diagnosis and Treatment of Sleep-Disordered Breathing in Adults: 2009 Update. “Is there an effective treatment for Cheyne-Stokes breathing?” April 26, 2009.
81. 4<sup>th</sup> Congress of the Canadian Sleep Society, Toronto, Ontario. Keynote address: “Sleep apnea and cardiovascular disorders”. April 28, 2009.
82. American Thoracic Society Annual Meeting, San Diego, CA. Multi-center Trials Examining Cardiovascular Endpoints in Sleep Apnea. “Beyond CANPAP: A randomised trial of adaptive servo ventilation for therapy of heart failure patients with sleep apnea”. May 17, 2009.
83. CIHR Institute of Cardiovascular and Respiratory Health Young Investigators’ Forum, Ottawa, ON. “Sleep apnea, sleep deprivation and heart failure”. May 21, 2009.
84. Toronto Heart Summit, Toronto, Ontario. “Sleep apnea, sleep deprivation, and heart failure”. June 11, 2009.

85. Heart and Lung Institute Research Rounds, St. Paul's Hospital, Vancouver, B.C. "Sleep apnea and its treatment: Impact on morbidity and mortality in heart failure patients. September 16, 2009.
86. Canadian Cardiovascular Society Congress, Joint Canadian Cardiovascular Society/American College of Cardiology Symposium on Brain and Heart Interactions, Edmonton, Alberta. "Sleep and the Heart". October 25, 2009.
87. World Association of Sleep Medicine 3<sup>rd</sup> International Congress on Sleep Medicine, Sao Paulo, Brazil. CME Course on Sleep Apnea and Cardiovascular Disease. "Treatment of sleep apnea in patients with congestive heart failure". November 8, 2009.
88. World Association of Sleep Medicine 3<sup>rd</sup> International Congress on Sleep Medicine, Sao Paulo, Brazil. Symposium on Sleep Apnea and the Heart. "The role of edema in the genesis of obstructive sleep apnea". November 10, 2009.
89. World Association of Sleep Medicine 3<sup>rd</sup> International Congress on Sleep Medicine, Sao Paulo, Brazil. Symposium on Sleep Apnea and the Heart. "Epidemiology of sleep-disordered breathing in patients with heart failure". November 10, 2009.
90. Cardiology Grand Rounds, Hamilton General Hospital, McMaster University, Hamilton, Ontario. "Treatment of sleep apnea in heart failure: influence on cardiovascular outcomes". December 1, 2009.
91. University of Alberta Division of Pulmonary Medicine, Brian J. Spoule Visiting Lectureship, Edmonton, Alberta. "Nocturnal rostral fluid displacement: a unifying mechanism for obstructive and central sleep apnea in heart failure". December 16, 2009.
92. University of Ottawa Department of Biochemistry, Microbiology and Immunology Research Rounds, Ottawa, Ontario. "Sleep apnea and its cardiovascular consequences". January 21, 2010.
93. University of Ottawa Department of Biochemistry, Microbiology and Immunology Career Day, Ottawa, Ontario. "University-based medical research: Is academic freedom worth the price of admission". January 22, 2010.
94. American Thoracic Society State of the Art Course in Sleep Medicine, Miami, Florida. "Cardiovascular consequences of sleep apnea". February 28, 2010.
95. American Thoracic Society State of the Art Course in Sleep Medicine, Miami, Florida. "Central sleep apnea and heart failure". February 28, 2010.
96. American College of Cardiology Meeting, Atlanta, Georgia. Symposium on Co-Morbidities in Heart Failure: "Sleep apnea in heart failure". March 15, 2010.

97. American College of Cardiology Meeting, Atlanta, Georgia. Chair of Meet the Experts Panel on “Assessment of Sleep-Disordered Breathing in Heart Failure”. March 16, 2010.
98. Heart and Stroke Foundation of Ontario, Hypertension Collaborative 2010 Symposium, Toronto, Ontario. “Obstructive sleep apnea and hypertension”. March 27, 2010.
99. Henry Ford Hospital Sleep Research Rounds, Detroit, Michigan. “Nocturnal rostral fluid shift: a unifying mechanism in the pathogenesis of obstructive and central sleep apnea in heart failure”. April 1, 2010.
100. Henry Ford Hospital Grand Medical Rounds, Detroit, Michigan. “Treatment of obstructive and central sleep apnea in heart failure”. April 1, 2010.
101. American College of Physician, Internal Medicine 2010, Toronto, Ontario. “Sleep apnea for the internist”. April 23, 2010.
102. Charite Hospital, Berlin, Germany. Symposium on New Developments in Sleep-Disordered Breathing. “Nocturnal rostral fluid shift: a unifying mechanism for the pathogenesis of obstructive and central sleep apnea in heart failure”. May 15, 2010.
103. American Thoracic Society Annual Meeting, New Orleans, Louisiana. Year in Review Symposium: “Sleep-Disordered Breathing”. May 17, 2010.
104. American Thoracic Society Annual Meeting, New Orleans, Louisiana. Lead Facilitator for Thematic Poster Session B72 - Consequences of Sleep-Disordered Breathing: Clinical Aspects. May 17, 2010.
105. Toronto General Hospital/UHN Cardiology Grand Rounds, Toronto, Ontario. “The ADVENT-HF Trial: The first multi-centre outcome trial of adaptive servo ventilation for obstructive and central sleep apnea in heart failure”. July 6, 2010.
106. National Heart Lung and Blood Institute conference on: Translational and Clinical Trials in Cardiovascular Disease Outcomes in Obstructive Sleep Apnea. Bethesda, Maryland. “ADVENT-HF: rationale and progress”. September 8, 2010.