

Dr. Diane Lougheed, MD, M.Sc., FRCP (C)



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Diane is a member of the Division of Respiratory and Critical Care Medicine within the Department of Medicine at Queen's University. She has been affiliated with Queen's since 1993 and has held the rank of Associate Professor since 2002. Diane also has a cross-appointment with the Department of Community Health and Epidemiology. In addition to her academic responsibilities, Diane is a Respirology Consultant for the Kingston General Hospital (KGH), Hotel Dieu Hospital (HDH), and Providence Care (St. Mary's of the Lake Hospital campus). She is also the Director of the Asthma Program at KGH, a Medical Advisor for the Asthma Education Centre at KGH, and the Director of the Adult Cystic Fibrosis Clinic at HDH.

Diane has been a scientific reviewer for a number of journals including Ambulatory Pediatrics, American Journal of Respiratory and Critical Care Medicine, Allergy and Asthma Proceedings, Canadian Journal of Physiology and Pharmacology, Canadian Respiratory Journal, Chest, Journal of Critical Care Medicine, Lung, Thorax, Pediatric Allergy and Immunology, and Current Respiratory Medicine Reviews. She has also served as a grant reviewer for such funding agencies as Canadian Institute of Health Research (CIHR), Canadian Thoracic Society, Ontario Thoracic Society (OTS), Physician's Services Incorporated Foundation (PSIF), and the Department of Medicine's Research Grant Competition and William M. Spear Endowment/Start Memorial Fund Competition both held internally at Queen's. In addition to reviewing journals and grants, Diane has served as reviewer for a number of professional organizations including Registered Nurses Association of Ontario, Workplace Safety and Insurance Board, Institute for Clinical Evaluation Sciences, the Foundation for Medical Practise Education, and the Institute for Clinical and Evaluative Sciences.

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Diane's research interests include:

- Symptom Perception in Asthma;
- Lung Mechanics in Asthma;
- Asthma Epidemiology;
- Asthma Education;
- Asthma Guidelines Implementation;
- Cystic Fibrosis.

Diane has given ~80 presentations locally, nationally, and internationally and has published in 30 peer-reviewed journals as well as in 84 abstracts, editorials, case reports, book chapters, and/or non-peer-reviewed journals. She has been awarded ~3 million dollars as a Principal Investigator and ~3 million dollars collaborating as a Co-Investigator in peer-reviewed investigator-initiated research grants from agencies such as CIHR, PSIF, OTS, Ministry of Health and Long-Term Care, Canadian Nurses Respiratory Society, and the Canadian Institute for Health Research (Health Canada).

A list of her peer-reviewed journal publications (as of April 20, 2009) includes:

- 1) Graham TE, Lougheed MD. Thermal responses to exercise in the cold: influence of sex differences and alcohol. *Human Biology* 1985; 57:687-98.
- 2) James A, Lougheed MD, Pearce-Pinto G, Ryan G, Musk B. Maximal airway narrowing in a general population. *Am Rev Respir Dis* 1992; 146(4):895-9.
- 3) Lougheed MD, Pearce-Pinto G, deKlerk NH, Ryan G, Musk AW, James A. Variability of the plateau response to methacholine in subjects without respiratory symptoms. *Thorax* 1993; 48:512-17.
- 4) Lougheed MD, Forkert L, Webb KA, O'Donnell DE. Breathlessness during acute bronchoconstriction in asthma: pathophysiologic mechanisms. *Am Rev Respir Dis* 1993; 148: 1452-9.
- 5) Lougheed MD, Webb KA, O'Donnell DE. Breathlessness during induced lung hyperinflation in asthma: the role of the inspiratory threshold load. *Am J Respir Crit Care Med* 1995; 152:911-20.
- 6) Lougheed MD, Roos JO, Waddell WR, Munt PW. Desquamative interstitial pneumonitis and diffuse alveolar damage in textile workers: Potential role of mycotoxins. *Chest* 1995; 108:1196-1200.
- 7) Fitzgerald JM, Macklem PT. Proceedings of a workshop on near fatal asthma. *Can Resp J*. 1995: 2(2): 113-126. (Lougheed MD Acknowledged as workshop participant).

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- 8) Gibbons WJ, Sharma A, Lougheed MD, Macklem PT. Detection of excessive bronchoconstriction in asthma. *Am J Respir Crit Care Med* 1996; 153:582-9.
- 9) Kern, DG, Durand KTH, Crausman RS, Neyer A, Kuhn III C, Lougheed MD, O'Donnell DE, Munt PW. Chronic interstitial lung disease in nylon flocking industry workers - Rhode Island, 1992-1996. *Morbidity and Mortality Weekly Report* 1997; 46(No.38):897-901.
- 10) Eschenbacher WL, Kreiss K, Lougheed MD, Pransky GS, Day B, Castellan RM. Clinical Pathology Workshop Summary. Nylon flock-associated interstitial lung disease. *Am J Respir Crit Care Med* 1999; 159:2003-2008.
- 11) Lougheed MD, Flannery J, Webb K.A., O'Donnell DE. Respiratory sensation and ventilatory mechanics during induced bronchoconstriction in spontaneously breathing low cervical quadriplegia. *Am J Respir Crit Care Medicine* 2002; 166:370-376.
- 12) Hopman W, Garvey N, Olajos-Clow J, White-Markham A, Lougheed MD. Outcomes of asthma education: Results of a multi-site evaluation. *Can Respir J* 2004; 11(4): 291-297.
- 13) Olajos-Clow J, Costello E, Lougheed MD. Perceived control and quality of life in asthma: Impact of asthma education. *J Asthma* 2005; 42(9): 751-756.
- 14) Garvey N, Lougheed MD. Asthma in Ontario: Ontario's Asthma Plan of Action. *Can Respir J* 2006, 13 (Suppl A): 32A-33A. (Supplement title: Implementing practice guidelines: A workshop on guidelines dissemination and implementation with a focus on asthma and COPD).
- 15) Lougheed MD, Garvey N, Chapman KR, Cicutto L, Dales R, Day A, Hopman W, Lam M, Sears M, Szpiro K, To T, Paterson NAM. The Ontario Asthma Regional Variation Study: Emergency Department Visit Rates and the Relation to Hospitalization Rates. *Chest* 2006; 129 (4):909-917.
- 16) Lougheed MD, Fisher T, O'Donnell D. Dynamic hyperinflation during mild bronchoconstriction in asthma: Implications for symptom perception. *Chest* 2006; 130 (4):1072-1081.
- 17) Lougheed MD, Moosa D, Finlayson S, Hopman W, Quinn M, Szpiro K, Reisman, J. Impact of a Provincial Asthma Guidelines Continuing Medical Education Project: The Ontario Asthma Plan of Action's Provider Education in Asthma Care Project. *Can Respir J* 2007; 14(2):111-117.
- 18) Lougheed MD. Variations in asthma: Symptom perception, care and outcomes. *Can J Physiol Pharmacol* 2007; 85(1):149-154.
- 19) Parker CP, Nolan R, Lougheed MD. Catamenial hemoptysis and pneumothoraces in a patient with cystic fibrosis. *Can Respir J* 2007; 14(5): 295-297.
- 20) Szpiro KA, Lougheed MD, VandenKerkhoff E, Harrison MB. Patient education in the emergency department: A systematic review of interventions and outcomes. *Advanced Emergency Nursing Journal* 2008; 30(1): 34-49.
- 21) Vozoris N, Lougheed MD. Second-hand smoking in Canada: Prevalence, risk factors, and association with respiratory and cardiovascular diseases. *Can Respir J* 2008; 15(5): 263-269.
- 22) Vozoris NT, Lougheed MD. Influenza vaccination among Canadians with chronic respiratory disease. *Respiratory Medicine* 2009; 103: 50-58.
- 23) Szpiro KA, Harrison MB, VandenKerkhoff E, Lougheed MD. Asthma education delivered in an Emergency Department and an Asthma Education Centre: A feasibility study. *Advanced Emergency Nursing Journal* 2009; 31(1): 65-77.
- 24) Olajos-Clow JG, Szpiro KA, Minard J, Julien B, Lougheed MD. Emergency department adult asthma care pathway: Health care providers perceived utility and barriers to implementation. *Advanced Emergency Nursing Journal* 2009; 31(1): 36-45.

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- 25) Lougheed MD, Garvey N, Chapman KR, Cicutto L, Dales R, Day A, Hopman W, Lam M, Sears M, Szpiro K, To T, Paterson NAM. Variation and gaps in management of acute asthma in Ontario emergency departments. *Chest* 2009; 1353: 724-736. (Published ahead of print online November 18, 2008 *Chest* doi:10.1378/chest.08-0371).
- 26) Lougheed MD, Olajos-Clow J, Szpiro K, Moyse P, Julien B, Wang M, Day A. Evaluation of a multi-centre emergency department adult asthma care pathway project. *Canadian Journal of Emergency Medicine* (In Press).
- 27) Boulet LP, Lemiere C, Gauvreau G, Olivenstein R, Lougheed MD, Paradis B, O'Byrne P, Pagaue R, Renzi PM. Safety, pharmacodynamics and pharmacokinetics of TPI 1020 in smokers with asthma. *Respiratory Medicine* (In Press).
- 28) Hodder R, McIvor A, Fitzgerald M, Kaplan A, Lougheed MD, Rowe B. Acute, potentially fatal asthma in adults, Part I: Non-ventilatory management. (Submitted January 2008; In Revision).
- 29) Hodder R, McIvor A, Fitzgerald M, Kaplan A, Lougheed MD, Rowe B. Acute, potentially fatal asthma in adults, Part II: Assisted ventilation for acute asthma. CTS Asthma Guidelines 2008. (Submitted January 2008; In Revision).
- 30) Durie PR, Knowles MR, Stonebraker JR, Friedman KJ, Ling SC, Pace RG, Macek M, Cipolli M, Debray D, Colombo C, Castaldo G, Salvator F, Columbo JI, Roland M, Fernandez A, Lacaille F, Wilschanski M, Bell SC, Wainwright C, Phillips JM, Corey M, Zielenski J, Dorfman R, Zou F, Silverman LML, Drumm ML, Wright, FA, Lange EM. On behalf of the Gene Modifier Study Group. *Genetic Modifiers of Liver Disease in Cystic Fibrosis*. (Submitted November 2008) (Lougheed MD acknowledged as a member of Gene Modifier Study Group).