

CURRICULUM VITAE

Current as of June 1, 2013

NAME: Susan M. Tarlo**ADDRESS:** Toronto Western Hospital,
East Wing 7-449
399 Bathurst St.
Toronto, Ont.
M5T 2S8**EDUCATION:**

1969 M.B., B.S., Westminster Medical School, London University, London, England

PROFESSIONAL QUALIFICATIONS:1969 M.B., B.S., (London)
1972 M.R.C.P., (U.K.) London
1975 F.R.C.P.(C), Internal Medicine
1976 F.R.C.P.(C), Respiratory Disease**LICENSURE:** Ontario 1976**HOSPITAL APPOINTMENTS:**1977-Current Staff Physician, Dept. of Medicine, (Occ Med. Clin Immunol, Respiriology)
University Health Network, (initially at Toronto General Hospital, then Toronto
Western Hospital), Respiratory Division.
2003- Courtesy staff, St Michael's Hospital, Occupational Medicine Department**ACADEMIC APPOINTMENTS:**1977-1980 Lecturer, Dept. of Medicine, University of Toronto
1980-1992 Assistant Professor, Dept. of Medicine, University of Toronto
1992-2000 Associate Professor, Dept. of Medicine, University of Toronto
1998-2000 Associate Professor, Public Health Sciences, University of Toronto
1977-Current Staff Physician, Gage Research Institute, Toronto (currently named Gage
Occupational and Environmental Health Unit).
1997-Current Member, Institute of Medical Science, University of Toronto
2000-Current Professor, Dept. Public Health Sciences, University of Toronto (from 2008, Dalla
Lana School of Public Health)
2000-Current Professor, Dept. of Medicine, University of Toronto
1998-Current Graduate Faculty, Centre for Environment (formerly Institute for Environmental
Studies)
2004-Current Centre for Research Excellence in Occupational Diseases member
2008-current Scientist appointment Toronto Western Hospital Research Institute

2008-current Research Faculty St Michael's Hospital, Li Ka Shing Knowledge Institute

POSTGRADUATE TRAINING:

1969-1970 House Physician, Dept. of Medicine, Westminster Hospital, London, England
 1970-1970 House Surgeon, Dept. of Surgery, Kingston Hospital, Kingston-Upon-Thames, England
 1971-1971 Senior House Physician, Dept. of Medicine, Royal Marsden Hospital, London, England
 1971-1972 Senior House Physician, Dept. of Medicine, Brompton Hospital, London, England
 1972-1974 Registrar in Medicine, Dept. of Medicine, Westminster Hospital, London, England & Derbyshire Royal Infirmary, Derby, England
 1974-1975 Resident, Dept. of Allergy/Clin. Immun., Queen's University, Kingston, Ont.
 1975-1976 Resident, Dept. of Respiratory Medicine, McMaster University, Hamilton, Ont.
 1976-1977 Research Fellow, Respiratory Med., St. Joseph's Hospital, Hamilton, Ont.

HONOURS AND AWARDS:

1969 Chadwick Prize in Medicine, Surgery, & Pathology; Westminster Medical School
 1976-1977 Scholarship, Canadian Tuberculosis and Respiratory Disease Association
 1988 N. LeRoy Lapp Lecturer: The importance of anti-inflammatory drugs in the treatment of asthma. in Advances in Internal Medicine Conference, West Virginia University School of Medicine.
 1994-1995 Schering-Plough International Research Fellowship Award
 1994 Ontario Lung Association Distinguished Service Award
 2002 David McCourtie Lecturer at the Canadian Society of Allergy and Clinical Immunology Annual Meeting. Effects of ozone on asthma
 2006. Arnold Naimark Speaker. National Research Forum for Young Investigators in Circulatory and Respiratory Health. Prevention of Occupational Asthma.
 2012 Canadian Thoracic Society Christie Lecturer, Occupational Asthma.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES:

JOURNAL REVIEWS:

Chest; Journal of Allergy and Clinical Immunology; Can Resp J, Can J Allergy Clin Immunol., Occ Environ Med, Am J Resp Crit Care Med, Ann Allergy Asthma Immunol, AJIM, J Asthma, Revista Alergia Mexico (committee of reviewers).

JOURNAL INTERNATIONAL ADVISORY BOARD MEMBER

The Journal of Environmental Medicine

JOURNAL REVIEWER BOARD

J Allergy Clin Immunol Mar 2006-2008

Faculty of 1000 Public Health and Epidemiology, 2006-current

JOURNAL BOARD

Am J Resp Crit Care Med, 2006-2011

Editorial Board: Allergy, Asthma and Clinical Immunology 2009-current.

International Journal of Occupational Medicine and Environmental Health, International editorial board member, 2011-current

Revista Alergia Mexico, International Editor Correspondant 2011-current

GUEST EDITOR

Current Opinion in Allergy and Clinical Immunology, Occupational disease 2005-12

ANNUAL MEETING ABSTRACT REVIEWER:

American College of Chest Physicians, 1999-09

American Thoracic Society 2000, 2001, 2002.

European Respiratory Society 2000.

GRANTING AGENCY REVIEWER:

Ontario Ministry of Labour; Ontario Ministry of Health; P.S.I.; BC Lung Assoc: Ontario Thoracic Society, MRC, Fonds de la recherche en sante du Quebec.

International Reviewer for Italian Government assessment of University research in occupational allergy and lung disease, (the National Evaluation Agency, ANVUR, VQR reviews) 2012

OTHER APPOINTMENTS:

1984-present Canadian General Standards Association Health Advisory Panel

1996-1997 Canadian Thoracic Society Subcommittee on Occupational Asthma

1986-present Workers Compensation Appeals Tribunal (Currently termed WSIAT)

1991-present Workers Compensation Board (Currently renamed, Workplace Safety and Insurance Board, WSIB) Physician Roster

1993-present Workers Compensation Board (WSIB) Occupational Chest Disease Consulting Network

1993-present Institute of Environment and Health

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

1992-present Royal College of Physicians of London (UK)

1975-present Royal College of Physicians and Surgeons of Canada

1977-present American Academy of Allergy, Fellow 2006-

1977-present British Society for Allergy and Clinical Immunology

1977-present American Thoracic Society

1977-present Fellow, Ontario Allergy Association

1977-present Fellow, Canadian Society of Allergy, Clinical Immunology

1977-present Ontario Thoracic Society, and Canadian Thoracic Society

1984-present Fellow, American College of Chest Physicians

2000-present Occupational and Environmental Medicine Association of Canada

UNIVERSITY COMMITTEES:

- 1978-1991 Respiratory Undergraduate Teaching Committee (TGH representative)
 1985-1989 Chair, Undergraduate Respiratory Teaching Committee, Faculty of Medicine,
 1980-1998 Trustee, Secretary, Medical Associates, Gage Occupational and Environmental
 Health Unit, formerly Gage Research Institute
 1978-present Clinical Immunology Residency Training Committee member
 1990-1994 Occupational Medicine Residency Planning Committee member
 1994-present Occupational Medicine Residency Training Committee member
 Jan 2003-05 Health Sciences II research ethics committee member

HOSPITAL COMMITTEES:

- 1978-1988 Medical Education Committee, Toronto General Hospital
 1987-1988 Ambulatory Teaching Committee, Toronto General Hospital
 1986-1988 Respiratory Ambulatory Care Coordinator, Toronto General Hospital
 1982-1986 Chair, Tri-hospital Respiratory Teaching Committee
 1978-1986 Member of Tri-hospital Respiratory Teaching Committee
 1993-1998 Latex sensitivity committee, The Toronto Hospital
 2003 Respiratory Division Chief review committee
 2005 St Michael's Hospital Dept Medicine Promotions Committee
 2008 UHN Member of search committee for Chief of Medicine

EXTRAMURAL COMMITTEES:

- 1984-9 Canadian General Standards Board, Medical Advisory Committee.
 1986-present Ontario Workers Compensation Appeals Tribunal (Currently termed WSIAT)
 1991-present Ontario Workers Compensation Board (Currently renamed, Workplace Safety and
 Insurance Board, WSIB) Physician Roster
 1993-present Workers Compensation Board (WSIB) Occupational Chest Disease Consulting
 Network
 1985-1999 Metro Toronto and York Region Lung Association Medical Advisor, Board
 Member, and Asthma Committee member.
 1990-1995 Ontario Allergy Society Executive
 1996-1997 Chair of subcommittee on occupational asthma, Canadian Thoracic Society
 1995-2002 Steering Committee member, American College of Chest Physicians, Section on
 Occupational and Environmental Health
 1996-97 Section Chair, American College of Chest Physicians, Section on Occupational
 and Environmental Health
 1997 Program Committee Member for Annual Meeting, American College of Chest
 Physicians
 1997-present Committee member, American Academy of Allergy, Asthma and Immunology
 occupational disease committee
 2003-2006 Committee member, American Academy of Allergy, Asthma and Immunology
 air pollution committee
 1999-2002 Program planning committee member for Annual meeting in 2000, 2001, and
 2002 American Thoracic Society, Occupational and Environmental Assembly

- 1999-2000 Chair of the nominating committee, American Thoracic Society, Environmental and Occupational Health Assembly
- 2000-present Member of Planning Committee, American Thoracic Society, Environmental and Occupational Health Assembly, Chair of Committee 2002-5.
- 2000-2001 Program Committee Chair, Ontario Thoracic Society Annual Meeting 2001.
- 1999-2000 Co-organiser of 1st Jack Pepys Occupational Asthma Workshop, Montreal, May 2000.
- 2000-2002 Chair Asthma Section, Can Soc Allergy Clinical Immunology
- 2000-2001 Member of the Ontario Ministry of Health Advisory Subcommittee on Asthma Strategy.
- 2000-2002 Member of the Board of Directors of the Canadian National Asthma Committee.
- 2001-2004 Member of Workplace Safety and Insurance Board of Ontario Committee on Occupational asthma management (Ontario Medical Association Representative).
- 2001-2007 Chair Ontario Thoracic Society Education Committee.
- 2001-2007 Member of the Ontario Thoracic Society Executive Committee
- 2001-2004 Co-organiser 2nd Jack Pepys Occupational Asthma Workshop, Toronto, May 2004.
- 2004 Chair-elect, American Thoracic Society, Occupational and Environmental Assembly
- 2005-7 American Thoracic Society, Chair of the Occupational and Environmental Assembly.
- 2005-7 American Thoracic Society Board Member.
- 2006-2008 Canadian Thoracic Society Asthma Committee
- 2006-current Editorial Board, American J Resp Crit Care Med,
- 2006-2008 Reviewer Board J Allergy Clin Immunol,
- 2005-current Current Opinion in Allergy Clin Immunol, Occupational Disease Issue, Co-Editor,
- 2007- current Public Health Agency of Canada, Chronic Respiratory Disease Surveillance Advisory Committee member.
- 2007- current Ontario Lung Association Asthma Advisory Committee member
- 2007 -2008 American Thoracic Society subcommittee on conflict of interest policy
- 2006-2008 Chair, ACCP panel for evidence-based guidelines in work-related asthma
- 2006-current Committee member ATS project to develop a statement on work-exacerbated asthma
- 2007 Co-chair ATS sponsored Workshop, 3rd Jack Pepys Workshop on work-related asthma
- 2007-8 US National Academy of Sciences Committee member to report on Chronic Beryllium Disease
- 2007-8 American Thoracic Society Ethics and Conflict of Interest Committee member
- 2008-current Steering Committee member, American College of Chest Physicians, Section on Occupational and Environmental Health
- 2008-current Co-chair, ATS panel for statement on spirometry in the occupational setting.
- 2009-12 Co-chair Fourth Jack Pepys Workshop on Work-related asthma and ATS

Proceeding document development

2009- 2011 Committee member ATS panel on Respiratory Impairment and Disability.

2009-2011 European Academy of Allergy and Clinical Immunology Task Force member, on prevention of work-related respiratory allergies among pre-apprentices or apprentices and young workers.

2012- current European Academy of Allergy and Clinical Immunology Task Force member, a) Work-related asthma in cleaners, b) Irritant induced asthma

2012- present Co-chair and organizer 5th Jack Pepys Workshop on Work –related asthma (workshop in Montreal May 2013).

2013-14 American Thoracic Society Document Development and Implementation Committee Member

2013-14 Am Academy of Allergy Clin Immunol Occupational Disease Committee Chair-elect.

RESEARCH ENDEAVOURS 1992-2013:

Work-related asthma

Assessment has been made of factors affecting occupational asthma prevalence and severity. Data previously collected from WCB claims for occupational asthma has been analysed to identify causes of occupational asthma, trends in prevalence, related to different agents, risk factors and outcome determinants for diisocyanate-induced asthma, the most common occupational asthma in Ontario. Claims were linked to Ontario Ministry of Labour data on workplace exposure levels and the presence or absence of a medical surveillance program at work to assess effects of these variables. Data collection from WCB files has been expanded and linkage made with registries of mortality and hospital admissions from asthma. Results have been compared with non-occupational asthmatics and non-asthmatic WCB claimants as control groups.

The prevalence and outcome of occupational irritant-induced asthma has been assessed from WCB data. An animal model was assessed with exposure to acetic acid inhalation.

An exposure chamber facility at the Gage Occupational and Environmental Health Unit was developed for occupational challenges, and well characterised with respect to delivery of diisocyanates and other occupational sensitizers to obtain predictable exposures.

Studies into natural rubber latex allergy and latex-induced occupational asthma assessed factors associated with skin test responsiveness to natural rubber latex and host/ exposure determinants in students and staff in a dental school. Effectiveness was assessed of powder-free latex gloves for use in work areas for latex-sensitive asthmatics in hospital and dental school settings.

The prevalence and features of work-attributed respiratory symptoms in medical respiratory technicians compared with physiotherapists have been assessed, and factors associated with “dark room disease” have been explored. Similar studies have been performed in professional school cleaners compared with other building workers.

Reasons for the delay in diagnosis of work-related asthma in Ontario have been assessed, and barriers to diagnosis explored. In collaboration with occupational medicine colleagues, barriers to physicians’ knowledge of occupational lung disease have been assessed.

Induced sputum as a technique to assess cytology and mediator changes in asthma has been

introduced into studies at the Gage Occupational and Environmental Health Unit and has been used to assess effects of a leukotriene antagonist in asthmatics, occupational exposures in the workplace and during laboratory challenges in work-attributed asthma, and ozone exposures in asthmatics and non-asthmatics as well as changes in relation to exposures in those with occupational asthma.

The role of viral respiratory infections and air pollutants in triggering acute asthma exacerbations has been assessed from data collected by investigators in Vancouver and Winnipeg during a one year panel study, including a case-control component. Possible interaction of allergen and ozone exposures in asthmatics has been assessed with controlled exposure studies. Collaborative studies with Dr F. Silverman have assessed mechanisms of ozone-induced airway inflammation, and ongoing studies are assessing possible human effects of ambient fine particulate pollutants, using controlled exposures in asthmatics and non-asthmatics.

Biochemical changes related to sulfite challenges in asthmatics with historical sulfite-sensitivity have been compared with non-asthmatic sulfite-sensitive subjects and normal controls, in collaboration with Dr D. Cole (Banting Institute).

Studies have been performed to characterize patients who believe they have “multiple chemical sensitivity”, and the possibility of panic attacks as a component of symptom-production has been assessed in collaboration with investigators from the Clarke Institute and St. Michael’s Hospital. Studies have assessed endotoxin exposure and responses in animal care workers, examining neutrophil activation as well as nasal and blood measures of endotoxin.

Possible under-recognition of chronic beryllium disease has been assessed by a questionnaire and immunologic testing of sarcoidosis patients in Ontario.

Comparative studies have looked at the role of differences in diagnostic approaches in Ontario and Quebec for work-related asthma, and associations of these with time to diagnosis and health care utilization.

Critical literature reviews have been performed to assess effects of various management strategies for occupational asthma (via a Cochrane review). Systematic review has been performed to address aspects of spirometry that are important in workplace evaluation (supported by the Am Thoracic Soc) and a systematic review is being undertaken to assess prognostic factors in occupational asthma related to diisocyanates.

The possible role of indium exposure in development of apparent idiopathic pulmonary fibrosis is being assessed.

RESEARCH FUNDING:

A) Peer-reviewed funding:

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| 1988-89 | SM Tarlo, I Broder Multicentre, double-blind, between patient comparison of multiple doses of 12ug formoterol metered dose aerosol versus multiple doses of 200ug salbutamol metered dose aerosol in patients with bronchial asthma. \$48,000 Ciba-Geigy Canada Ltd. |
| 1988-91 | SM Tarlo, I Broder , P Corey. Review of Ontario Workers’ Compensation Claims. \$29,500, \$22,056, \$8030. |
| 1988-90 | SM Tarlo, I Broder Can irreversible airway obstruction be prevented in asthmatics by long-term inhaled beclomethasone? \$10,000, \$20,000. Glaxo Canada. |
| 1991-1993 | I. Broder, S. Tarlo, P. Corey. Laboratory Centre for Disease Control, health and |

- Welfare Canada. Development of diagnostic criteria for multiple chemical sensitivity. \$167,500 (Co-principal investigator).
- 1992-1993 S. Tarlo, Ontario Thoracic Society Block Term Grant. Effects of indomethacin in airway response to ozone. \$5,000 (Principal investigator).
- 1993 S. Tarlo, G. Sussman. Ontario Allergy Society Research Fund Study of airborne latex with use of powdered and powder-free gloves. \$800 (Co-principal investigator)
- 1993-1994 S. Tarlo, D. Cole. Ontario Allergy Society Fund. Development of methods to assess sulphite metabolism in sensitive asthmatics. \$2,500 (Co-principal investigator).
- 1993-1995 D. Cole, S. Tarlo. PSI. Clinical and biochemical changes in sulphite sensitivity. \$126,000 (Co-principal investigator).
- 1993-1994 S. Tarlo, F. Silverman. Asthma Society of Canada. Induced sputum changes with ozone exposures. \$9,000 (Co-principal investigator).
- 1993-1996 F. Silverman, S. Tarlo, P. Corey. Health and Welfare Canada, NHRDP. Effects of indomethacin on airway responses to ozone exposures. \$69,900 (Collaborator)
- 1995 D.L. Holness, S. Tarlo. St Michael's Hospital Research Fund. Latex sensitivity in dental workers. \$8380 (Co-principal investigator).
- 1995 S. Tarlo, D. Banks, G. Liss. Asthma Society of Canada. Effects of exposure variables and surveillance measures on isocyanate-induced asthma. \$9,000 (Co-principal investigator).
- 1994-1996 S. Tarlo. Schering-Plough SPIRIT award for personal research support. Interactions of respiratory viral infections and environmental effects on asthma exacerbations. \$20,000 (Principal investigator).
- 1994-1995 D. Banks, S. Tarlo. Ontario Thoracic Society Block Term Grant. Isocyanate chamber challenge studies in asthmatics with occupational symptoms. \$5,996. (Co-principal investigator).
- 1995 S. Tarlo. Ontario Thoracic Society Block Term Grant and MTYR Lung Association Summer Student (Yvonne Wai) Funding. Allergy to a wood mould, chrysonilia sitophila. \$3,000 (Principal investigator).
- 1995-1996 Silverman F, Broder I, Tarlo S. Salicylate hydroxylation as a biomarker for human ozone exposure. Health Canada \$140,000.
- 1996-1997 S. Tarlo, G. Liss, K. Singh. Ontario Thoracic Society: Mortality and morbidity in Occupational Asthma. \$12,000 (Principal investigator).
- 1996 S. Tarlo. Ontario Thoracic Society, Block Term Grant: Summer Student Funding (Chris Dias) to assist in development of studies of sulfite sensitivity and evaluating industrial hygiene surveillance for occupational asthma. \$1500 (Principal investigator).
- 1997 S. Tarlo. Ontario Thoracic Society, Block Term Grant: Summer Student Funding (Chris Dias) to assist in improving delivery systems for isocyanate exposure challenges, and evaluating the role of medical surveillance for isocyanate occupational asthma. \$3000 (Principal investigator).
- 1996-1997 S. M. Tarlo. Ontario Thoracic Society Block Term Grant: Induced sputum changes in the diagnosis of occupational asthma. \$7,585 (Principal investigator).

- 1997-1998 F. Silverman, S. Tarlo, I. Broder, J. Purdham, J. Brook, C. Pilger, P. Koutrakis, L. Liu. Health Canada. Controlled human exposures: response to ambient particles. \$31,195 (Collaborator).
- 1996-1998 S. M. Tarlo (Principal Investigator), B. Urch, J. Purdham. Ontario Allergy Society: Validation of an isocyanate delivery system and response assessment for human exposure studies of occupational asthma and rhinitis. \$16,000
- 1998-2000 F Silverman, SM Tarlo, J Purdham, B Zimmerman, J Brook, L Liu, R Dales, E Downer. Cardiorespiratory effects of concentrated ambient particles and / or ozone on healthy and asthmatic individuals. Health Canada (PERD) \$60,000, \$62,000, \$62,000.
- 1998-2001 S.M. Tarlo, N Zamel, F Silverman, J Brooks. Petrocan and Greenpeace Research Award: Interactions of particles and sulfur dioxide in human exposure studies. \$100,000 (Principal Investigator).
- 1998-1999 S.M. Tarlo, K. Binkley, R. Swinson, M. Antony, P. Corey. St Michael's Hospital Research Award. Induction of panic attack by carbon dioxide 35% single-breath, in patients with multiple chemical sensitivity. \$10,000 (Principal Investigator).
- 1998 and 1999 S.M. Tarlo. Ontario Thoracic Society, Block Term Grant: Summer Student Funding (Frank Min) to assist in evaluating the causes and prevalence of cough in patients on peritoneal dialysis. \$3000 per year (Principal Investigator).
- 1999-2000 S.M. Tarlo, J Purdham. Ontario Allergy Society Research Fund. Assessment of isocyanate exposures outside isocyanate-using buildings. \$4000 (Co-Principal Investigator).
- 1999-2001 F Silverman, SM Tarlo, J Purdham, B Zimmerman, P Corey, N Zamel, E Downer, S Maybury. Cardiorespiratory effects of controlled human exposures to particulate matter and ozone. Toxic Substances Research Initiative, Health Canada. \$750,000 (Co-investigator).
- 1999-2001 R Dales, S Tarlo, A Sas-Kortsak, J Purdham, B O'Kelly, R Vincent. A panel study of the effects of ambient air particulate air pollution on exercising patients with coronary artery disease. Toxic Substances Research Initiative, Health Canada \$425,000 (Co-investigator).
- 1999-2000 J. Purdham, S Tarlo. Assessment of diisocyanate levels using a photo-acoustic detector. WSIB Research Initiative. \$36,000
- 1999-2000 S. Tarlo, J Purdham. Measurement of aldehyde airborne levels using a photo-acoustic detector. Ontario Thoracic Society Block term grant. \$4,000.
- 1999-2002 Silverman F, Brook J, Liu L, Vincent R, Parfett C, Poon R, Kumarathasan P, Tarlo S, Purdham J, Zimmerman B, Corey P, Zamel N, Downar E, Mabury S, Evans G. Cardiorespiratory effects of controlled human exposures to particulate matter and ozone. Health Canada, Toxic Substances Research Initiative (TSRI), \$750,000.
- 2000 S. Tarlo Summer Student Funding. Ontario Thoracic Society Block Term Grant. \$2000. –Dilani Ramuthi.
- 2000 S. Tarlo Summer Student Funding. St Michael's Hospital Research Fund. \$2000.
- 2000-2002 Liss G, Tarlo SM, Purdham J, McCaskell L. Assessment of respiratory and other

- symptoms in radiographic technicians and physiotherapists. Ontario Workplace Safety and Insurance Board Research Initiative. \$210,000.
- 2000-2003 Lemiere C, Malo JL, Boulet LP, Cote J, Hargreave F, Tarlo SM. Assessment of induced sputum in diagnosis of occupational asthma. MRC (CIHR) \$150,000
- 2001 Tarlo SM Summer Student Funding, for student Vincent Tsui. Ontario Thoracic Society Block Term Grant, \$2000, Institute of Medical Sciences \$1500, St Michael's Hospital \$2000.
2001. Silverman F, Tarlo S, Urch B, Zimmerman B. Ontario Thoracic Society Block Term Grant to purchase a centrifuge. \$10,000.
2001. Tarlo S, Liss G, Silverman F, Purdham J, Zimmerman B. Ontario Thoracic Society Block Term Grant to purchase a spirometer \$5,000.
- 2001-2002 Silverman F, Brook R, Brook J, Tarlo S. Air pollution effects on the human vascular system determined through controlled exposures to particles and ozone. Atmospheric Environment Services, Meteorological Services Canada. \$27,000.
- 2003-2005 Workplace Safety & Insurance Board. "Occupational exposure to ultrafine particles and the relationship to early indicators of cardiopulmonary effects" J. Purdham, A. Sass-Kortsak, G. Liss, F. Silverman, S. Tarlo. \$268,428
- 2002-2004 Silverman F, Tarlo S, Zimmerman B, Purdham J, Brook J, Liu L, Dales R, Downar E. Cardiorespiratory effects of concentrated ambient air particles and / or ozone on healthy and asthmatic individuals. Health Canada ((PERD) \$63,000 and \$30,000.
- 2002-2005 Tarlo SM and Liss GM. Barriers to the diagnosis of occupational asthma. WSIB RAC \$115,000.
- 2002-2005 Holness DL, Tarlo SM, Silverman F. Physician knowledge needs in occupational asthma. WSIB RAC. \$65,000
- 2003 Tarlo SM. Summer Student Funding, for student Victor Ng. Ontario Thoracic Society Block Term Grant, \$2000, and St Michael's Hospital \$2000. A pilot study of the role of cleaning agents in asthmatics.
- 2003-5 Tarlo SM, Liss GM, Holness DL, Purdham J, Sass-Kortsak A. Effects of cleaning agents in asthma among professional cleaners. WSIB RAC \$150,000 per year for 2 years.
- 2004 Tarlo SM. Summer Student Funding, for student Victor Ng. Institute for Medical Science, University of Toronto, health effects of fungal exposure, and a case report of polymer fume pneumonitis \$2000.
- 2004-5 Tarlo SM. Health effects of stachybotrys exposure, a pilot project. CREOD \$10,000.
- 2004-6 Binkley K, Tarlo SM, Kennedy J. Research project to investigate the genetic basis for idiopathic environmental illness (IEI) and panic disorder. Canadian Allergy, Asthma and Immunology Foundation (CAAIF) and The Research Institute for Fragrance Materials, Inc. (RIFM) Program \$69,233 funded by RIFM to be paid over two years, each yearly payment \$34,616.50.
- 2005-6 Tarlo SM and Betchell S. Ontario Thoracic Society Block Term. Assessment of Lower Airway Inflammation During Upper Airway Infection. \$10,000.
- 2005 Tarlo SM OTS Block Term Grant Summer Student Funding \$3000, Romy Seth, a

- study of nasal endotoxin assay.
- 2005 Workplace Safety and Insurance Board CREOD, Pilot Project “Inflammation in HAVS patients” G. Liss, F. Silverman, R. House, S. Tarlo, S. Hutchison. \$10,000
- 2005 Workplace Safety and Insurance Board CREOD, Pilot Project “Vascular function in HAVS patients” F. Silverman, R. House, G. Liss, S. Tarlo. \$10,000
- 2005-2006 AllerGen Networks of Centres of Excellence. “Workplace Sensitizers: Exploration of skin and lung routes of exposure, responses and prevention practices: Preliminary studies” L. Holness, G. Liss, S. Tarlo, J. Purdham, F. Silverman, I. Kudla. \$25,000
- 2005-9 Network of Centres of Excellence “AllerGEN” J. Denburg, (Theme 2 Leaders: F. Silverman, J. Hogg) (T2.7 Project Leader: S. Tarlo) (T2.7 Network Investigator: L. Holness) Funding to be awarded through a competitive process.
- 2005-7 Silverman F (PI) van Eeden S, Denburg J, Brook J, Tarlo SM, Corey P, Palaniyar N. Allergic Asthma: Controlled Urban Air Pollution Exposures and Allergen interactions.
- 2003-13 Workplace Safety & Insurance Board. Network of Centres of Research Expertise. “Centre of Research Expertise in Occupational Disease (CRE-OD)” L. Holness, P. Corey, R. House, G. Liss, J. Purdham, A. Sass-Kortsak, J. Scott, F. Silverman, S. Tarlo, D. Verma (S. Switzer-McIntyre, M. Faughnan, W. Lou, R. Hosein, F. Hargreave, D. Lougheed, M. Pratt, S. Skornicki-Grant) (2003-2013) approx \$390,000 per year.
- 2005-7 Tarlo SM, and Liss GM (Co PIs) WSIB RAC. Review of trends in work-related asthma claims and possible role of medical surveillance \$143,014 (for 2 years)
- 2006-8 To T, Holness L, Haines T, Lougheed D, Tarlo SM, Cicutto L. Occupational asthma surveillance; a pilot implementation and evaluation of an occupational asthma surveillance system in Ontario. Ont Ministry of Health and Longterm Care. Y1 \$232,432, Y2 \$163,415, total \$420,271
- 2006-8 Tarlo SM, Liss GM, Romaschin A, Scott J, Scott, J. Use of a chemiluminescent assay for endotoxin to assess occupational exposure. Ontario Thoracic Society. \$43,650 (Year 1).
- 2006-8 Tarlo SM, Liss GM. Chronic beryllium disease among patients with sarcoidosis in Ontario. Ontario WSIB RAC, \$125,000.
- 2006-8 Holness DL, Liss GM, Tarlo SM, Pratt M, Sasseville D, Kudla I. Key exposures causing work-related allergic contact dermatitis and evidence for dual causation of occupational asthma. Workplace Safety and Insurance Board (WSIB) – Research Advisory Council. \$109,342.
- 2006-7 Tarlo SM., Ciccuito L, Finlayson S. Career choices in young asthmatics. OLA \$10,000
- 2007-9 Lougheed D, Holness DL, Mardell K, Crighton E, Haines T, Kudla I, Minard J, Olajos-Clow J, Paterson N, Tarlo S, To T. Changing practice for prevention and early detection of occupational asthma and allergic diseases in the primary care setting. AllerGen. \$154,000.

- 2009-10 Tarlo, SM, Gupta S, Liss GM, Straus S, Ribeiro M, Chignell M, Bhinder S. Asthmatic knowledge and careers. Work Safe BC. \$49,460
- 2009 – 2011 Holness DL, Arrandale V, Kraut A, Tarlo S, Betschel S, Kudla I, Redlich C, Scott J, Silverman F, Cory P. Occupational exposure prevention and the co-occurrence of work-related skin and respiratory symptoms and disease. Manitoba WCB Community Initiatives Research Program, \$142,064. (Co-investigator)
- 2009-12 Co-PIs: Loughheed D, Lemiere C, Tarlo SM, Liss GM, To T. (Co-Investigators): Olajos-Clow J, Malo JL, Holness DL, Haines T, Blais L, Crighton E. Work-related asthma and allergy prevention and early detection research program (WRAPPED).AllerGen NCE, \$600,000.
- 2010-12 Tarlo SM, Malo JL. Fourth Jack Pepys Workshop on Work-related Asthma. CIHR. \$17,500 (with co-funding from Ont WSIB, Quebec CSST, IRRST and AllerGen), total funding \$85,000 (for 2010 and support for a Proceedings document from Am Thoracic Society 2012.
- 2013 Tarlo SM, Marras T, Lau A. Subgrant from Ont MOL for a pilot study of Indium as a factor in ILD. \$10,000.
- 2013 Malo JM and Tarlo SM. Fifth Jack Pepys Workshop on Work-related Asthma. Co-funding from Ont WSIB, CREOD, Quebec CSST, IRRST. Total \$80,000.

B) Non-peer-reviewed funding:

- 1993-1995 S. Tarlo, A. Slutsky, F. Silverman, N. Zamel. Fisons Corp Ltd. Effects of nedocromil in modifying airway responses to ozone and allergens. \$148,940 (Principal investigator).
- 1993-1994 S. Tarlo. Metro Toronto and York Region Lung Association. Assessment of induced sputum in asthmatics. \$10,000 (Principal investigator).
- 1994-1995 S. Tarlo. Woodbridge Foam Corporation. Development of isocyanate challenge facilities at the Gage Research Institute. \$35,000 (Principal investigator).
- 1995-1996 S. Tarlo. Merck Pharmaceuticals. Induced sputum changes related to a leukotriene antagonist in asthmatics. \$32,000 (Co-principal investigator, multicentre study).

PEER REVIEWED PUBLICATIONS: (H-index 32, 7th July 2012, based on 185 publications)

1. **Tarlo SM.** Traumatic arterio-venous fistula. Proceedings of the Royal Society of Medicine 64:398, 1971. (Principal author)
2. **Tarlo SM,** Cockcroft DW, Dolovich J, and Hargreave FE. Beclomethasone dipropionate aerosol in perennial rhinitis. J Allergy and Clin Immunol 59:232, 1977. (Principal author)
3. **Tarlo SM,** Day JH, Mann P, Day MP. Immediate hypersensitivity to tuberculin. In vivo and

- in-vitro studies. *Chest* 71:33, 1977. (Principal author).
4. Cockcroft DW, Cuff MT, **Tarlo SM**, Dolovich J, and Hargreave FE. Allergen injection treatment with glutaraldehyde modified ragweed pollen-tyrosine-adsorbate. A double-blind trial. *J Allergy and Clin Immunol* 60:56, 1977. (Collaborator - participation in patient identification, and data collection and manuscript)
 5. **Tarlo SM**, Davies G, Bell B, Hargreave FE, and Dolovich J. Papain-induced allergic reactions. *Clin Allergy* 8:207,1978.(Principal author).
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147. Bhinder S, Heffer MJ, Lee JK, Chaparro C, Tarlo SM. Development of Transient Peanut Allergy Following Bilateral Lung Transplantation. American College of Chest Physicians presentation in category for PGY1 resident S Bhinder).
148. Rosenblat J, Fukakusa B, Jang B, Ribeiro M, Kudla I, Tarlo SM. H1N1 Fear Rising for Workers Everywhere, but Will They Wear a Mask? If Not, Why Not? American College of Chest Physicians Annual Meeting Chest 2009; 136: 47S-f (oral presentation in late-breaking session).
149. Arrandale VH, Liss GM, Tarlo SM, Pratt M, Sasseville D, Kudla I, Holness DL. Inconsistencies in sensitizer notations for common occupational contact allergens in the 2001-2006 North American Contact Dermatitis Group Canadian data. *Dermatitis* 2010;21:232.
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159. Tarlo SM, Czyrka A, Ribeiro M, Vernich L, Liss GM. Changes in workers' compensation claims for diisocyanate-induced asthma, 1980-2007 in Ontario, Canada, compared with other causes of occupational asthma. *Isocyanates and Health Past, Present and Future Conference*, Apr 2013, Bolger Conference Centre, Maryland USA.
160. Tarlo SM, Czyrka A, Ribeiro M, Vernich L, Liss GM. Diisocyanate (ISO) And Non-Diisocyanate (N-ISO) Sensitizer-Induced Occupational Asthma (OA) Frequency During 2003-07 In Ontario, Canada. *AJRCCM* 2013;187:1626 (American Thoracic Society Annual meeting, Philadelphia May 2013).
161. Barrick K, Levesque LE, Dostalier S, Pickett W, Liss G, Tarlo SM, Loughheed MD. Estimating the burden of work-related asthma using comparative and administrative data linkage. *AJRCCM* 2013;187:3664.

INVITED LECTURES AND CE PRESENTATIONS SINCE 1990:

LOCAL (additional presentations/rounds to residents included in teaching activities):

1. Asthma Mortality and Epidemiology, Allergic and Environmental effects. Mount Sinai Hospital Grand Rounds, Toronto, Aug 8, 1990.
2. Latex Allergy. Mount Sinai Hospital Grand Rounds, Toronto, Sept 5, 1990.
3. Occupational asthma. St Joseph's Health Centre, Toronto, June 19, 1990.
4. Air pollution in Toronto- is it safe to jog? Intracity immunology rounds Gage Research Institute, Feb. 1990.

5. Occupational asthma. Queensway General Hospital, Grand Rounds, Oct 3, 1990.
6. A Day In Asthma, Understanding the allergy assessment. Toronto Western Division of TTH. Nov 9, 1990
7. Metro Toronto and York Lung Association Annual Meeting, Environmental effects on asthma. June 14, 1990.
8. Occupational asthma, 8th annual adult asthma seminar, Metro Toronto and York Region Lung Association. Oct 13, 1990.
9. Update in asthma therapy; Airway Reactive Disease in Adults: Mount Sinai Hospital, Toronto, April, 1991.
10. Asthma Day for Physicians; Asthma and the Environment: York Region Lung Association, June, 1991.
11. Physician Assessment of Asthma. York-Toronto Lung Association, Nov 7, 1992.
12. Occupational asthma in Ontario. Respiratory Research Seminar, Medical Sciences Building, U. of T., Jan 6, 1993.
13. Antihistamines and topical steroids in the treatment of rhinitis, Update in Family Practice, Toronto, 1993, Feb 5, 1993.
14. Isocyanate induced occupational asthma, Woodbridge Foam Corp. Health and safety conference, June 1993.
15. Interesting aspects of occupational asthma. Respiratory Intra-City Rounds, TTH, 29 June 1993.
16. Exercise induced asthma, and Asthma in pregnancy, The Lung Association Adult asthma seminar, Toronto, Nov 1993.
17. Latex Allergy. OR staff rounds, TGH. Feb 1994.
18. Latex Allergy. Grand Rounds, Women's College Hospital, April 1994.
19. Allergy in asthma. New Brunswick visiting physicians. Asthma Centre, TWH, March 1994.
20. Allergy and asthma. MTYR Lung Association Seminar, Richmond Hill, May 1994.
21. Occupational asthma WCB claims. Occupational rounds, St. Michael's Hospital, June 1994.
22. Occupational asthma. West Park Hospital. 13 Dec 1994.
23. Isocyanate related respiratory disorders. The Woodbridge Foam Corporation Health symposium, March 10th 1995.
24. Latex allergy. Mississauga Hospital Rounds, Sept 1995.
25. Latex Allergy. Markham-Stouffville Hospital Grand Rounds, Nov 7, 1995
26. Occupational asthma in Ontario. Grand Rounds Women's College Hospital, 13 Dec 1995.
27. MTYR Lung Association adult asthma seminar. Environmental control measures in asthma. 11 Jan 1996.
28. Occupational asthma. Grand Rounds, St Michael's Hospital, 3 April 1996.
29. Metro Hall, Toronto, presentation to Municipal "Clean Air Summit", Respiratory effects of air pollution, 4 June 1996.
30. Air Pollution and Respiratory Disease. Metro Toronto and York Region Lung Association, Annual General Meeting, Metro Hall, May 14, 1997.
31. Isocyanate-induced asthma. Allergy and Immunology Rounds, Toronto Hospital for Sick Children, Jan 1998.
32. Air pollution and asthma. Institute for environmental studies, Environment and health seminar series. Toronto, Apr 1998.

33. Allergy assessment and immunotherapy. Astra pharmaceutical rep. asthma day. TWH Asthma Centre, 25 Sept '98.
34. Conference on Indoor Mold and Health, Metro Hall Toronto. Human health effects in children and adults. 1st Oct '98.
35. Women and allergies. A public education forum, The Toronto Hospital, Oct 1998.
36. Women and Asthma. The Michener Institute, Toronto, Nov 29, 1998.
37. Occupational asthma. Hospital for Sick Children, Immunology Rounds. May 17th, 2000.
38. Health effects of indoor mould. Ontario Ministry of Health Public Health Laboratories, April 20th, 2000.
39. Mount Sinai Hospital Medical Grand Rounds. Sick Building Syndrome and indoor mould. Nov 2001.
40. Toronto Western Hospital, Clinical Research Rounds. Studies in occupational asthma. May 2003.
41. University of Toronto, Institute for environmental studies: Environment and Health Seminar Series. Health effects of indoor mould. Jan 2004.
42. Toronto Western Hospital, Medical Grand Rounds, Irritant induced asthma, Aug 25th 2004.
43. Sunneybrook and Women's College Hospitals Medical Grand Rounds Dec 2nd 2004; Irritants, asthma and the workplace.
44. Toronto Western Hospital, Asthma Centre Rounds, March 30th 2005: Barriers to diagnosis of work-related asthma.
45. Toronto Respiratory Grand Rounds, Feb 2006, Occupational Asthma.
46. Univ of Toronto, 2nd year Medical Student Lecture, Occupational Lung Disease 2006.
47. Toronto Western Hospital, Asthma Centre Rounds, Jan 2007 Asthma among cleaners.
48. University of Toronto Respiratory Division, Research in progress rounds. Mar 2007. Work-related asthma in professional cleaners.
49. Respiratory Physiology Course, IMS graduate students. Lungs, the environment and populations. March 2007
50. University of Toronto, 2nd year Medical Student Lecture, Occupational Lung Disease May 2007.
51. North Toronto Respiratory Physicians. Are we under-diagnosing work-related asthma? Feb 2008.
52. St Joseph's Hospital Medical Grand Rounds, Hypersensitivity Pneumonitis. April 2009.
53. Toronto Western Hospital Anaesthesia Rounds. General Anaesthetic Allergy. April 2009.
54. Toronto Western Hospital Asthma Centre Rounds. Health effects of indoor mould. Dec 2009.
55. Toronto Western Hospital Asthma Centre Rounds. Medical surveillance for occupational asthma. Feb 2010.
56. Toronto Western Hospital Asthma Centre Rounds. Unusual aspects of occupational asthma. Dec 2010
57. St Michael's Hospital Occupational Medicine Rounds. Diagnosis of occupational asthma, Jan 26th 2011. (evaluation speaker effectiveness 4.8/5, from 16 respondents)
58. U of T Respiratory Research-in-progress rounds Apr 11th 2011 – airway diseases.
59. UHN Multi-organ transplant rounds, June 2011 Transfer of food allergy by organ transplant.
60. Toronto Western Hospital Asthma Centre Rounds, Feb 2012 Cleaners and asthma.

61. Toronto Western Hospital Asthma Centre Rounds, Dec 2012 Occupational COPD.
62. St Michael's Hospital Occupational Medicine Rounds Dec 2012, Occupational COPD.
63. Toronto Western Hospital Asthma Centre Rounds, March 2013, Factors affecting spirometry results.
64. St Michael's Hospital, Medical Grand rounds April 2013, Occupational COPD – how important is it?

PROVINCIAL:

1. Chronic Sinus Disease. Ontario Allergy Society, Nov 2, 1990.
2. Asthma and the environment. Ont. Resp. Care Soc. Nov. 1990. Occupational asthma.
3. MacMaster Univ. Med. Centre, Occupational Rounds, Oct 10 1990.
4. Asthma and the environment. Ont Lung Assoc., Better Breathing 1991, Feb. 1991.
5. Assessment of Occupational asthma. Ontario Worker's Compensation Board, Medical Rounds, Complex Case Unit, Feb. 1991.
6. Allergy Update; Allergy Medications and Pregnancy: Ontario Allergy Society, April, 1991.
7. A Day in Asthma, Occupational Asthma, Toronto, Nov. 29, 1991.
8. Human Health Effects of Ozone. Canada's Green Plan, Health Message Workshop, Queen's Park, Toronto, Sept 30, 1992.
9. Occupational Lung Diseases. Royal Victoria Hospital, Barrie, Oct 7, 1992.
10. A Day in Asthma; a) Food Allergy, Current Controversy, and b) Allergy testing and Hyposensitization. Toronto, Nov 20, 1992.
11. Visiting Professor, Univ. of Western Ontario, Jan 27-29.(Grand Rounds, Occupational asthma in Ontario, Jan 28, 1993, University Hospital, Investigations in Occupational Asthma St Joseph's Hospital Jan 29, 1993, Resident Rounds, Latex Allergy, Food Allergy, Jan 29, 1993.)
12. Respiratory Irritants. Ontario Respiratory Care Society, Toronto, Nov 6, 1992.
13. Latex Allergy. Ontario occupational health nurses association, Feb 3, 1993.
14. A Day in Lung Disease: Occupational airway disease. King Edward Hotel Toronto, Nov 1993
15. Occupational asthma. First Ontario Respiratory Residents Symposium, Niagara-on-the-Lake, April 1994.
16. Irritant induced asthma effects, Ontario WCB OCDCN annual meeting, June 1994.
17. Occupational asthma. University of Toronto, Dept of Chemical Engineering, Industrial Hygiene Update. Sept 28, 1994.
18. Occupational asthma in Ontario. Asthma Control and Treatment Symposium, Ontario Allergy Society, Toronto, 22nd Oct, 1994.
19. Isocyanate induced occupational asthma. Ontario society of Occupational Physicians. 14 Dec 1994.
20. Occupational asthma. 24th Intensive Workshop in Industrial Hygiene, Dept of Chem Engineering, U of T, Sept 1995.
21. Allergic rhinitis. A Day in Lung Disease, The Prince Edward Hotel, 17 Nov 1995.
22. Skin testing. A Day in Lung Disease, The Prince Edward Hotel, 17 Nov 1995.

23. Ontario Allergy Public Forum, Occupational asthma. 6 Feb 1996.
24. 25th Annual Industrial Hygiene Course, U of Toronto, 23rd Sept 1996, Occupational asthma.
25. A day in Respiratory Disease, Windsor, Ontario, Oct 1996, Occupational asthma, Latex allergy.
26. Mc Master University Medical Centre, Occupational Medicine Rounds, Occupational asthma, Nov 1996.
27. Sick Building Syndrome. Allergy Update 1997, Ontario Allergy Society, Apr 19, 1997, Toronto.
28. Outcome of isocyanate-induced asthma. Occupational medicine rounds, McMaster University Medical Centre, Jan 1998.
29. Isocyanate-induced occupational asthma. Respiratory Rounds, Kingston General Hospital, March 1998.
30. Ontario Workplace Safety Insurance Board Appeals Tribunal Day in Heart and Lung Disease: (1) Pulmonary Function in Occupational Lung Disease. (2) Occupational Asthma and other Occupational Lung Diseases. Sept 14 '98 Toronto.
31. Expert panel on indoor mould effects. Ontario Ministry of Health, 11th/12th Feb 1999.
32. Fungal contamination in the home is an important health hazard: debate. Better Breathing 2000, Ontario Thoracic Society Annual Meeting Jan 2000, Toronto.
33. Occupational asthma seminar. Better Breathing 2000, Ontario Thoracic Society Annual Meeting Jan 2000, Toronto.
34. Air pollution and viral infections: effect on asthma exacerbations. Institute of the Environment and Health, Mc Master University, March 23rd, 2000.
35. Occupational Asthma. Allergy and Clinical Immunology Rounds, McMaster University Medical Centre, June 16th, 2000.
36. Air pollution and lung health. Better Breathing 2002, family physician program, Toronto, Feb 2nd 2002.
37. Occupational Asthma. Allergy and Clinical Immunology Rounds, McMaster University Medical Centre, May 30th, 2002.
38. McMaster University CME for family physicians on Occupational asthma. May 2004.
39. Barrie Courthouse. Health effects of mould and sick buildings. May 2004.
40. McMaster University Allergy/Immunology rounds, Dec '04: Irritants, asthma and the workplace.
41. Ontario Thoracic Society Annual Meeting, "Better Breathing" Feb 4th 2005, Lunch Seminar, What's new in Occupational Lung Disease?
42. Medical Surveillance for Occupational Asthma Symposium, Toronto May 2005, invited speaker, Medical Surveillance of Occupational Asthma, the Model of Ontario Compensation Data Review.
43. McMaster University Allergy/Immunology rounds, June 2006. Isocyanate-induced asthma.
44. Ontario Thoracic Society Annual Meeting, "Better Breathing" Feb 2007, OTS/ORCS Symposium, Update in Occupational Asthma.
45. McMaster University and Occupational Medicine Section of the OMA Second Annual Day in Occupational Medicine: Occupational Asthma, the View of the Respiratory Physician, March 29 2008.
46. Brampton Hospital Laboratory Day: Are you allergic to your work? Asthma and Allergy in

Healthcare Workers, April 2008.

47. Kitchener-Waterloo Respiratory Physicians: Chronic Beryllium Disease. April 2008.
48. McMaster University, Allergy and Clinical Immunology Rounds. Work related asthma. April 2008.
49. Centre for Health and Safety Innovation Research Exchange Series. Feb 9th 2010. Work-related Asthma and Respiratory Disease Related to Cleaning.
50. University of Western Ontario Respiratory Division Rounds, visiting professor, St Joseph's Hospital, London, Ont. Work-related asthma and cleaners. Apr 21st 2010.
51. West-end respiratory group. Work-related asthma, May 25th 2010.
52. Freddy Hargreave Memorial Symposium, St Joseph's Hospital, Hamilton, Ontario. Approach to investigations of new respiratory sensitizers. June 2012.
53. Occupational Hygiene Association of Ontario Annual Meeting, March 2013, Toronto, Occupational COPD, how common is it?

NATIONAL:

1. Food challenge tests. Workshop on multiple chemical sensitivities. Ottawa, May 24 1990
2. Medifacts tape; Changes in the environment in relation to asthma severity. Dec. 1990.
3. Atypical Food Related Symptoms -- how do we deal with them? Canadian Society of Allergy and Clinical Immunology Annual Meeting, with Royal College of Physicians and Surgeons annual meeting, Ottawa, Sept 11, 1992.
4. Controversy in Occupational Asthma. Joint Occupational Health Conference, Occupational Medical Association of Canada, Ottawa, Sept 24, 1992.
5. Human Health Effects of Ozone. National Workshop on Asthma and the Environment, Montreal, Oct 23, 1992.
6. Telemedicine Canada, Medical Surveillance of respiratory irritants and sensitizers. Feb 2, 1993.
7. Occupational Asthma. Canadian Lung Association Annual Meeting, Halifax, Nova Scotia, June 1993
8. Exercise induced asthma. Canadian Lung Association Annual Meeting, Halifax, Nova Scotia, June 1993.
9. Air pollution respiratory health effects. Pollution Probe Annual meeting, Toronto, June 1995.
10. Research in occupational asthma, Occupational and environmental medicine association of Canada (OEMAC) meeting Toronto, Oct 1995.
11. Breakout session in occupational asthma, and workshops, Occupational and Environmental Medicine Association of Canada meeting, Toronto, Oct 1995.
12. Occupational asthma. 1995 Cardio-Pulmonary technologist annual meeting, Toronto Harbour Castle Hotel, Oct 1995.
13. New Brunswick Society of Allergy Annual Meeting. 1) Latex Allergy: Practical Aspects. 2) Occupational Asthma. 19 April 1996.
14. Telemedicine, Occupational asthma. 2 May 1996.
15. Irritant-induced asthma. Annual Meeting, Royal College of Physicians and Surgeons of Canada, Vancouver, Sept 1997.

16. Isocyanate surveillance in Ontario and the medical impact of early intervention. British Columbia WCB Occupational Health/Hygiene Conference '99, Vancouver, 22nd Sept 1999.
17. Occupational asthma guidelines. 17th Annual Meeting of Occupational and Environmental Medical Association of Canada. Toronto, 2nd Oct 1999.
18. Visiting Professor, Sacre Coeur Hospital, Universite de Montreal, and Meakins-Christie Laboratory. Diisocyanate-induced occupational asthma. Dec 10th 1999.
19. Invited speaker: Occupational asthma, Canadian Society of Respiratory Therapists annual meeting, Toronto, June 1st 2001.
20. David McCourtie Lecturer at the Canadian Society of Allergy and Clinical Immunology Annual Meeting, Nov 2002, Quebec City. Effects of ozone on asthma (debate).
21. Invited speaker: Occupational asthma. Occupational and Environmental Medicine Association of Canada Annual Meeting. Toronto, Sept 2003.
22. The Canadian Institute's Advanced Forum on Identifying, managing and Preventing Mould Claims. April 27, 2005. Human health effects of indoor mould exposure.
23. National Research Forum for Young Investigators in Circulatory and Respiratory Health. Winnipeg, May 4-7 2006. Arnold Naimark Feature Symposium. Prevention of Occupational Asthma.
24. Canadian Family Medicine Symposium. Toronto, May 2006, Occupational asthma.
25. AllerGen symposium on occupational asthma. Feb 2007 Hamilton. Low molecular weight sensitizers in the workplace.
26. Can Soc Allergy Clin Immunol Annual Meeting Oct 2008, Hamilton. Work-related Asthma, in Resident's symposium.
27. Can Soc Allergy Clin Immunol Annual Meeting Oct 2008, Hamilton. Work-related Asthma Consensus Statement, in Asthma Section Meeting.
28. Canadian Respiratory Conference, Toronto Apr 2009 Occupational Asthma – “featured seminar” co-sponsored by the American College of Chest Physicians.
29. Occupational and Environmental Association of Canada Annual Meeting Saskatoon, Oct 2010. Diagnosis of Occupational Asthma.
30. Occupational and Environmental Association of Canada Annual Meeting Saskatoon, Oct 2010. Medical Surveillance for Occupational Asthma.
31. Canadian Cardiovascular Conference: Canadian Association of Cardio-pulmonary technologists Annual Meeting, Oct 30th 2012, Toronto, Work-related Asthma.

.INTERNATIONAL:

1. Latex allergy, Seminar, American Academy of Allergy Annual Meeting, Orlando, Florida, March, 1992
2. Ozone effects on the lung. Second International Conference for Auto-free cities, Toronto, May, 1992.
3. History and evaluation of airway changes in occupational asthma. In: Symposium on occupational asthma, American College of Chest Physicians Annual Meeting, Orlando, Florida, Oct 1993.
4. The role of respiratory viral infections and environmental factors in asthma exacerbations. SPIRIT symposium, 6th International Congress for Infectious Diseases,

- Prague, Czech Republic, April 1994.
5. Outcome determinants in occupational asthma. American College of Chest Physicians, Annual meeting, New Orleans, Nov 3, 1994, and Chair of symposium on Occupational asthma: after the diagnosis.
 6. Algorithmic approach to diagnosis and management: Symposium on the ACCP consensus statement on diagnosis of occupational asthma. Chest 1995, Annual meeting of the ACCP, New York, Oct 1995.
 7. Visiting Professor, Environmental and Occupational Health Sciences Institute, University of Medicine and Dentistry of New Jersey and Rutgers University. Seminar on occupational asthma, 1996.
 8. Occupational asthma seminar. 14 Dec 1995. Co-chair and speaker, ATS Annual Meeting, Postgraduate Course, The Bread and Butter of Occupational Lung Diseases, 10 May 1996, New Orleans.
 9. Thailand Occupational Physicians Day on Occupational Diseases in Canada, 21 May 1996, Gage Occupational and Environmental Health Unit: organiser and speaker on Occupational asthma.
 10. Co-chair and introduction, Building-related diseases and Sick building syndrome, American Thoracic Society, Postgraduate Course, Annual Meeting, May 1997, San Francisco.
 11. Latex Allergic Respiratory Disease. Chair and speaker, American College of Chest Physicians Annual Meeting, New Orleans, Oct 1997.
 12. Latex Allergy. Annual Meeting of The Wound Care Society. Toronto Congress Centre, Nov 1997
 13. Occupational asthma. Lunchtime seminar, American Academy of Allergy and Clinical Immunology Annual Meeting, Washington, March 1998.
 14. Surveillance and prevention of Occupational Lung Disease. American Academy of Allergy and Clinical Immunology Annual Meeting, Washington, March 1998.
 15. Epidemiology of Latex Allergy. American Thoracic Society Annual Meeting, Chicago, Apr 1998.
 16. Visiting Professor, University of West Virginia. N. LeRoy Lapp Lecture: The importance of anti-inflammatory drugs in the treatment of asthma. in Advances in Internal Medicine Conference, West Virginia University School of Medicine. May 1998. and Respiratory Division Seminar on Occupational asthma.
 17. Occupational Asthma. Meet the Professor Seminar, American College of Chest Physicians Annual Meeting, Toronto, Nov 1998.
 18. Occupational Asthma, and Case-based Seminar. American Thoracic Society, State of the Art Course, Los Angeles: Feb 23rd 1999.
 19. Occupational Asthma, American Thoracic Society Annual Meeting, Postgraduate Course, San Diego, Apr 1999.
 20. Isocyanate surveillance in Ontario and the medical impact of early intervention. American Industrial Hygiene Conference, Toronto, June 1999.
 21. Visiting Professor, Univ of Rochester, New York. Occupational asthma, Isocyanate-induced asthma. Nov 30, Dec 1st 1999.
 22. Scientific Workshop: Interactive problem cases in Latex Allergy, Speaker and Moderator,

- Am Academy of Allergy Asthma and Immunol Annual Meeting, San Diego, March 4th 2000.
23. Occupational asthma diagnosis. Speaker and Meeting Co-Organiser, International Occupational asthma symposium, Montreal, May 2000.
 24. Chair, Occupational asthma mini-symposium, American Thoracic Society Annual Meeting, Toronto, May 2000.
 25. Plenary presentation: Chemically sensitive patients in pulmonary practice: controversies in diagnosis and management. American College of Chest Physicians Annual Meeting, San Francisco, Oct 23rd, 2000.
 26. Visiting Speaker, 4th Annual Environmental Medicine Meeting, Public Health Dept of Thailand. Diagnosis of occupational asthma, Latex allergy and asthma, Dec 2000, Bangkok, Thailand.
 27. Invited speaker in : Environmental factors in medically unexplained physical symptoms. Conference at the Environmental and Occupational Health Sciences Institute, Robert Wood Johnson Medical School and Rutgers State University of New Jersey, Jan 10-12 2001. Response to provocative challenge with CO₂ in MCS subjects: implications.
 28. Invited speaker. Asthma in medical laboratory workers. In a seminar on allergic responses in medical laboratory workers, Annual Meeting of American Academy of Allergy, Asthma and Immunology, New Orleans, March 2000.
 29. Co-chair, Postgraduate course: Weighing the evidence for preventive environmental control strategies for asthma. American Thoracic Society Annual Meeting, San Francisco, May 2001.
 30. Speaker in Postgraduate course: Weighing the evidence for preventive environmental control strategies for asthma. American Thoracic Society Annual Meeting, San Francisco, May 2001, Preventive strategies in the workplace.
 31. Meet-the-Professor Seminar, Occupational Medical Surveillance for asthma: an assessment of usefulness. American Thoracic Society Annual Meeting, San Francisco, May 2001.
 32. Occupational irritant exposures and asthma. In: Occupational Asthma and Allergy, an International Symposium, American College of Allergy, Asthma and Immunology, Orlando, Florida. 15th November 2001.
 33. Occupational asthma: a hands-on approach. Interactive Symposium: Chair and speaker (Prevalence and outcome determinants). Am Academy of Allergy, Asthma and Immunology Annual Meeting, New York, March 2002.
 34. Visiting professor and invited speaker, Occupational asthma, prevention of occupational asthma, Respiratory Division, University of Omaha, Nebraska, March 2002.
 35. Irritant-induced asthma. American College of Occupational and Environmental Medicine Annual Meeting, Millenium Symposium, Chicago, April 2002.
 36. Isocyanate-induced asthma, diagnosis and prognosis. Isocyanate Symposium. American Congress of Governmental Industrial Hygienists, and American Chemistry Council. Cincinnati, April 2002.
 37. Irritant occupational effects on asthma. Symposium speaker, American Thoracic Society Annual meeting, Atlanta, May 2002.
 38. Occupational aspects of latex allergy. Workshop speaker, Am Academy of Allergy,

- Asthma and Immunology Annual Meeting, March 2003, Denver.
39. Breakfast seminar: Latex allergy, diagnosis and management. Am Academy of Allergy, Asthma and Immunology Annual Meeting, March 2003, Denver.
 40. Workshop speaker: Occupational asthma, diagnosis. Am Academy of Allergy, Asthma and Immunology Annual Meeting, March 2003, Denver.
 41. Symposium speaker: Occupational asthma: when should it be suspected and why an early diagnosis is important. Am Academy of Allergy, Asthma and Immunology Annual Meeting, March 2003, Denver.
 42. Clinical Year in Review: Occupational Lung Disease. American Thoracic Society Annual Meeting, Seattle, May 2003.
 43. Natural Rubber Latex as an occupational allergen. Parallel Symposium. World Allergy Organisation Meeting, Vancouver, Sept 2003.
 44. Breakfast Seminar x 2. Latex allergy. World Allergy Organisation Meeting, Vancouver, Sept 2003.
 45. American College of Occupational Medicine State of the Art Conference, Toronto, Oct 2003. Invited speaker in Symposium "When the dose is low and the response is not: understanding acute response to low-level exposure": Multiple Chemical sensitivity and Sick Building Symptoms: a role for anxiety, stress and low-level irritants.
 46. American College of Occupational Medicine State of the Art Conference, Toronto, Oct 2003. Invited speaker: Natural History of Occupational Asthma, lunch seminar.
 47. American College of Chest Physicians Annual Meeting, Orlando, Florida, Oct 2003. Plenary Session: Occupational Asthma for the General Pulmonologist.
 48. American Academy of Allergy, Asthma and Immunology Annual Meeting, interactive symposium. Irritant-induced asthma. (and chair of an abstract presentation session on environmental irritant effects) San Francisco March 2004.
 49. 2nd Jack Pepys International Workshop on Occupational Asthma, Toronto May 21/22 2004. Co-organizer, chair, and speaker on Irritant-induced asthma.
 50. American Thoracic Society Annual Meeting. Co-chair and speaker, Mini-symposium, inflammatory markers in occupational lung disease. Orlando May 2004.
 51. American Thoracic Society Annual Meeting. Nora team meeting (US National Institute for Occupational Safety and Health): Prevention of isocyanate-induced asthma in Ontario. May 2004.
 52. Visiting Professor, University of New Jersey, Newark, Oct '04, Grand Rounds in Allergy Clinical Immunology Division, Latex Allergy.
 53. New Jersey Allergy Society invited visiting speaker, Oct '04, Occupational asthma.
 54. ACCP Annual Meeting invited speaker, plenary session Occupational lung disease updates: Occupational Asthma. Seattle, Oct '04.
 55. International Beryllium Research Conference, Mar 8-11, 2005, Montreal. Invited speaker, Case presentations and discussion.
 56. American Academy of Allergy, Asthma and Immunology Annual Meeting, workshop, Occupational Asthma: Key aspects of the occupational history. San Antonio, Texas, March 2005.
 57. American Thoracic Society Annual Meeting, May 2005. Postgraduate Course Invited Speaker: Prevention of Occupational Lung Disease; what works, what doesn't work. San

- Diego, May 2005.
58. American Thoracic Society Annual Meeting, May 2005. Co-Chair and Discussant, The Til Renzetti Poster Symposium, Occupational lung diseases. San Diego, May 2005.
 59. European Respiratory Society Annual Meeting, Invited Speaker, Plenary Session: Occupational Asthma, Outcomes, Prevention and Compensation Issues. Sept 2005, Copenhagen., Denmark.
 60. American College of Chest Physicians, Invited Speaker, Plenary Session; Occupational Asthma Management. Chest 2005, Montreal, Nov 2005.
 61. 1. Occupational asthma, diagnosis and management. 2. Diisocyanate-induced asthma. 3. latex allergy and asthma. Invited speaker, 2nd Iranian Asthma Meeting, Tehran, Nov 2005.
 62. American Society of Toxicology Annual Meeting, San Diego, Mar 2006. Host factors in occupational asthma. Plenary Symposium.
 63. American Thoracic Society Annual Meeting, Poster Session Facilitator. San Diego. May 2006.
 64. Occupational Allergy Workshop, Univ. of Washington, Seattle March 30th 2007. 1. Occupational asthma from high molecular weight sensitizers. 2. Occupational IgE mediated skin disease.
 65. 3rd Jack Pepys Workshop on Work-related Asthma, Co-organizer and Co-Chair, Montreal May 2007.
 66. Management and medico-legal issues in work-related asthma. 3rd Jack Pepys Workshop on Work-related Asthma, Montreal May 2007.
 67. American Thoracic Society Annual Meeting. Poster session facilitator, San Francisco, May 2007.
 68. American College of Chest Physicians Annual Meeting (Chest) Oct 2007, Chicago. Chair and introductory speaker Symposium: Evidence-based guidelines for Occupational Asthma.
 69. American College of Chest Physicians Annual Meeting (Chest) Oct 2007, Chicago. Poster facilitator: Occupational Lung posters.
 70. American Academy of Allergy Asthma and Immunology Annual Meeting Mar 2008 Philadelphia. Seminar; Case-based discussion of occupational allergy and asthma.
 71. American Academy of Allergy Asthma and Immunology Annual Meeting Mar 2008 Philadelphia. Symposium on ACCP Statement on Work-related Asthma, what's new for the allergist. Work-exacerbated Asthma.
 72. American Thoracic Society Annual Meeting May 2008, Toronto; poster session facilitator; Asthma Epidemiology.
 73. European Academy of Allergology and Clinical Immunology Meeting June 2008 Barcelona, Invited speaker in Symposium on What's new in work-related Asthma? Work-aggravated asthma.
 74. First Middle East Asthma Conference, January 2009, Kuwait City, Kuwait. Invited speaker, plenary sessions a) Occupational asthma overview, b) Occupational asthma diagnosis and management c) Case-based discussions
 75. First Middle East Asthma Conference, January 2009, Kuwait City, Kuwait. Invited speaker, Asthma and pregnancy.

76. American Academy of Allergy Asthma and Immunology Annual Meeting Mar 2009 Washington. Invited speaker, Seminar; Case-based discussion of occupational allergy and asthma.
77. IAPA Annual Meeting, Toronto, Invited Speaker, Prevention of occupational asthma. April 2009.
78. American Thoracic Society Annual Meeting. Symposium Indoor Air and Asthma, Emerging Risks, invited speaker Occupation and Asthma: Work-caused and work-exacerbated asthma. May 2009 San Diego.
79. NIVA Course (Nordic occupational medicine course), Sept/Oct 2009, Occupational airways disease: 3 lectures (2 hours): Epidemiology of occupational asthma and work-exacerbated asthma, Management and Surveillance of the asthmatic patient, Preventive strategies: natural rubber latex, diisocyanates.
80. American College of Chest Physicians Annual Meeting,. Post-graduate course on occupational lung disease: Work-related asthma. San Diego, Nov 2009.
81. American College of Chest Physicians Annual Meeting. Seminar chair and speaker: Work-Related Asthma: Practical Aspects of the ACCP Consensus Statement: Work-exacerbated asthma. San Diego, Nov 2009.
82. European Academy of Allergy Asthma and Clinical Immunology Task Force on Prevention of work related allergies among pre-apprentices or apprentices. Work-related Asthma and Awareness in Young Adult Asthmatics. Pavia, Italy Nov 2009.
83. American Academy of Allergy Asthma and Clinical Immunology Annual Meeting, Workshop speaker and discussant: Development of an immunosurveillance program in the workplace: cost-benefit analyses. New Orleans, Feb 2010.
84. American Academy of Allergy Asthma and Clinical Immunology Annual Meeting, Seminar speaker: Investigation of sentinel cases of occupational asthma. New Orleans, Feb 2010.
85. American Academy of Allergy Asthma and Clinical Immunology Annual Meeting, Chair: new causes of occupational airway disease. New Orleans, Feb 2010.
86. American Academy of Allergy Asthma and Clinical Immunology Annual Meeting, Poster facilitator: asthma epidemiology. New Orleans, Feb 2010.
87. 4th Jack Pepys International Workshop on Work-related Asthma. Co-organizer, Chair and Discussion leader. May 14th 2010.
88. American Thoracic Society Annual Meeting, New Orleans May 2010. Poster facilitator, pneumoconioses.
89. American College of Chest Physicians Annual Meeting: Symposium presentation Nov 2010 Vancouver. Uncommon presentations of common occupational lung diseases. (audience evaluation from 70 respondents, 4.67 out of 5)
90. Invited speaker: 14th Course on Occupational Lung Diseases (XIV Curso de Patologia Ocupacional Respiratoria), Barcelona, Spain, Hospital Universitario Vall d'Hebron de Barcelona, Nov 8th and 9th 2010. Perception of asthma as a factor in career choice among young adults with asthma.
91. Invited speaker: 14th Course on Occupational Lung Diseases (XIV Curso de Patologia Ocupacional Respiratoria), Barcelona, Spain, Hospital Universitario Vall d'Hebron de Barcelona, Nov 8th and 9th 2010. Occupational asthma and work-exacerbated asthma:

- differences and similarities.
92. Invited speaker: 14th Course on Occupational Lung Diseases (XIV Curso de Patologia Ocupacional Respiratoria), Barcelona, Spain, Hospital Universitario Vall d'Hebron de Barcelona, Nov 8th and 9th 2010. Case discussion.
 93. Mount Sinai Hospital New York, Department of Occupational and Preventive Medicine, Grand Rounds, Prevention of Work-related asthma. 21st Jan 2011
 94. American Academy of Allergy Asthma and Immunology Annual Meeting, invited seminar presenter. Approach to management of multiple chemical sensitivity. San Francisco, March 2011.
 95. American Academy of Allergy Asthma and Immunology Annual Meeting, invited poster facilitator, San Francisco, March 2011.
 96. American Thoracic Society Annual Meeting, Denver, May 2011. Invited poster-discussion co-chair, Work-related asthma and airway disease.
 97. American College of Chest Physicians Annual Meeting: Symposium presentation Oct 26th 2011, Hawaii, Panel Discussion, Occupational Asthma: what you need to know.
 98. American Academy of Allergy Asthma and Immunology Annual Meeting 2012, Orlando, Symposium Cleaning agents, asthma and other respiratory maladies: invited speaker, Cleaning agents in office settings and home, are they safe? 3rd March 2012.
 99. American Academy of Allergy Asthma and Immunology Annual Meeting 2012, Orlando, Workshop: Year-in Review, Occupational Disease, what the allergist should know, invited speaker Work-Exacerbated Asthma. 3rd March 2012.
 100. American Thoracic Society Annual Meeting 2012, San Francisco, Symposium on Work-exacerbated asthma. Does my patient have Work-exacerbated asthma? May 21st 2012
 101. American Thoracic Society Annual Meeting 2012, San Francisco, Fellows Symposium. Work-related asthma. May 19th 2012.
 102. American Thoracic Society Annual Meeting 2012, San Francisco. Recognizing Occupational and Environmental Lung Disease: Clinical and Exposure Assessment. Invited thematic poster facilitator. May 21st 2012.
 103. European Academy of Allergy Asthma and Clinical Immunology Annual Meeting, June 2012, Geneva, Switzerland invited symposium speaker, Irritant-induced asthma in the home.
 104. European Academy of Allergy Asthma and Clinical Immunology Annual Meeting, June 2012, Geneva, Switzerland invited speaker, Meet the Professor session Management of Work-related Asthma.
 105. European Academy of Allergy Asthma and Clinical Immunology Annual Meeting, June 2012, Geneva, Switzerland invited chair, oral abstract session on work-related asthma.
 106. Am College of Chest Physicians Annual Meeting (Chest 2012), Atlanta Oct 2012, Symposium on Irritant-induced obstructive lung diseases: Occupational exposures and irritant-induced lung disease. Oct 24th 2012.
 107. Canadian Thoracic Society Annual Meeting held during the Am College of Chest Physicians Annual Meeting (Chest 2012), Atlanta Oct 2012, Christie Memorial Lecture: Occupational asthma, a potentially preventable disease. Oct 22nd 2012.
 108. Isocyanates and Health Past, Present and Future Conference, Apr 2013, Bolger Conference Centre, Maryland USA. Changes in workers' compensation claims for

diisocyanate-induced asthma, 1980-2007 in Ontario, Canada, compared with other causes of occupational asthma – invited talk and poster. 4th April 2013.

109. American Thoracic Society Annual Meeting, Symposium co-chair and speaker, Symposium on Medical Surveillance for Occupational Lung Diseases. Speaker topic: Medical Surveillance for occupational airway disease. May 2013, Philadelphia.

GRADUATE SUPERVISION:

- 1991-1997: Neil Alexis. Effects of indomethacin pretreatment on short-term ozone exposure in asthmatics, PhD thesis committee member (PhD received 1997, IMS).
- 1996-1999: Jason Datema. Health effects of air pollution MSc candidate, Dept Pub Health Sci, thesis committee member (MSc received 1999).
- 1997-2000: Sanya Petrovic. Response to acute challenges with concentrated ambient particulates MSc candidate, IMS, thesis committee member (MSc received 2000).
- 1997-1999: Naveen Poonai . Carbon dioxide inhalation challenges in multiple chemical sensitivity MSc candidate, IMS, Supervisor (MSc received 1999).
- 1998-2000 Mehdi Hazari, thesis committee member (MSc received 2000)
- 2001 Kate Walewski thesis defence committee member for MSc 2001.
- 2000-2002 James Doherty, MSc candidate, Public Health Sciences
- 2000-2003 Larissa Larisnevskaja, MSc candidate, IMS (MSc received 2003) co-supervised with Dr F Silverman)
- 2003-2006 Maya Obata, MSc candidate, IMS (MSc received 2006).
- 2007-2012 Thesis Committee, Victoria Arrundale, PhD candidate IMS (PhD awarded 2012).

CREATIVE PROFESSIONAL ACTIVITY 1992-2013

Clinical assessment facilities have been developed in Toronto for occupational lung disease. The occupational lung disease clinic at The Toronto Western Hospital acts as a referral centre for patients throughout Ontario and also receives referrals from New Brunswick. It is one of only about three centres in Canada with facilities to fully investigate patients with occupational asthma, including specific challenge testing facilities (located at the Gage Occupational and Environmental Health Unit) which have been characterised and standardised through linkages with occupational hygiene at the Dalla Lana School of Public Health (where I am cross-appointed). A large proportion of referrals are received from the Ontario Workplace Safety and Insurance Board (WSIB), are also seen by me the Occupational Lung Disease Stream of the Occupational Disease Specialty program in the Occupational Medicine Division at St Michael's Hospital where I am part of the Centre for Excellence in Occupational Disease (CREOD).

The clinical activities at the Occupational Lung Disease Clinic have led to the identification of several previously unreported causes of occupational asthma, including natural rubber latex, and led to the first case reports of occupational latex allergy in North America. These reports led to recognition of latex allergy as a major occupational risk in health care workers and the formation of a hospital latex committee which has acted as a model to prevent latex sensitization in health

care workers. Research in this area included assessment of the role of glove powder in delivering airborne levels of latex. Developments from the hospital latex committee included policies for detection and management of latex allergy in hospital staff and patients, as well as effective strategies for reducing the risk of latex sensitisation by changes in glove usage, documented by measures of airborne latex allergen with use of different latex gloves, with and without powder.

Other new causes of occupational lung disease identified through the clinic and subsequently reported include pectin in jam makers, *chyronilia sitophila*, and a pine oil product (tall oil). Subsequent investigations by the Ministry of Labour of exposed workers have allowed early detection of affected workers. The clinic has also served as a research resource in reviewing effectiveness of strategies to reduce diisocyanate-induced occupational asthma by use of surveillance measures.

Additional research studies to identify asthma risks among medical radiation technologists before the introduction of digital imaging have demonstrated an increased risk of asthma in these workers associated with self reported exposures to chemical spills, and also an increased risk of symptoms termed Darkroom Disease, similar to sick-building syndrome. A similar study among professional cleaners has shown an increase in work-related asthma symptoms compared with other building worker and associations with certain cleaning tasks. Risk was increased among those who did not comprehend/incorporate safety training measures. Further analyses have shown associations between skin and lung disease in these workers, emphasizing the need for protective measures for both sites of exposure. Additional studies have been initiated to explore barriers to compliance with respiratory protective measures among workers.

Review of Ontario Workplace Safety and Insurance Board accepted asthma claims over a 5 year period has recently been completed to assess changing rates, causes and other features of occupational asthma and work-exacerbated asthma. This has led to oral and poster presentations, and manuscripts from this study are being finalized. The recognition from this study that work-exacerbated asthma is now much more common than occupational asthma has led to a study by medical students, under my supervision, to assess understanding of work-related asthma among young asthmatic subjects prior to selection of future careers. A manuscript has been published and a further study received grant support to develop an educational tool for young asthmatics. A collaborative workshop was developed in conjunction with the European Society of Asthma and Clinical Immunology to develop approaches to education.

Other work-related asthma research which is ongoing includes assessing genetic factors in isocyanate-induced asthma (in collaboration with the University of Cincinnati and others) and a recent pilot study with a research group from the University of Alberta.

Research in Occupational Asthma has led to several invitations to speak on this at National and International Meetings, membership and previous chairing of the steering committee for Occupational and Environmental lung disease of the American College of Chest Physicians (ACCP), postgraduate course director for two years for the American Thoracic Society occupational and environmental lung disease program, and membership of the American Academy of Asthma Allergy and Immunology occupational and environmental committee. It has also led to membership of a previous ACCP consensus panel on occupational asthma, chairing of the Canadian Thoracic Society (CTS) committee on occupational asthma, and more recent chairing of the ACCP Consensus panel which led to publication of CTS guidelines and an

updated ACCP consensus statement (from a panel chaired by me). Other related initiatives have been preparation of a contract report for Health Canada on diisocyanate-induced asthma, and leadership roles in the American Thoracic Society, Occupational and Environmental Health Assembly, including chairing of this Assembly, 2005-7.

Additional American Thoracic Society projects for which I have been invited to contribute as a panel member currently include a panel to develop a statement on work-exacerbated asthma, one to develop a statement on work-related impairment and disability, and a panel which I have been asked to chair to develop a statement on spirometry in the workplace.

Research in occupational lung disease also led to panel participation on a USA National Academy of Sciences Committee to report on health effects of beryllium in the US Airforce. A research study was also recently in Toronto to assess possible occult chronic beryllium disease among patients with a clinical diagnosis of sarcoidosis, and a manuscript is in press.

Research involvement in air pollution research studies in collaboration with Dr F. Silverman at the Gage Occupational and Environmental Health Unit and literature review in this area has led to a presentation to Metro Council on respiratory effects of air pollution relevant to proposed changes in control of vehicular emissions, membership in expert panels to advise government and other bodies on health effects of air pollution, and public education on air pollution effects through the Lung Association and the media. A medical student has been supervised to develop an educational brochure regarding effects of air pollution in asthma which is currently being evaluated.

Concerns regarding Sick Building Syndrome and the role of toxigenic mould contamination have led to membership of an expert panel on Toxigenic Indoor Mould Contamination, to advise the Public Health Branch of the Ontario Ministry of Health in Jan 1997 and Jan 1999. These were also associated with a public information meeting. Subsequently this led to invited lectures to the Ministry of Health Public Health Laboratory, the Canadian Institute, and consultant functions for the Ministry of the Attorney General and the Police Services. A study has recently been published (2010) assessing symptomatic outcomes of exposure to *Stachybotrys atra* and other indoor moulds among clinic patients.

Development of collaborative links with ENT and speech pathologists at St Michael's Hospital have been made to improve assessment of patients with vocal cord dysfunction or irritable larynx syndrome. This has led to a review of patients seen collaboratively and a manuscript has been developed identifying prevalence within the occupational lung clinic and features of these patients.

Efforts to enhance knowledge translation in regard to work-related asthma include development of a Consensus Statement on diagnosis management and prevention of work-related asthma, supported by the American College of Chest Physicians, with subsequent commentaries and case-based publications to enhance awareness. With support from the American Thoracic Society Environmental and Occupational Health Assembly projects are ongoing to enhance awareness of work-related asthma and to develop evidence-based recommendations on use of spirometry in the occupational setting as well as best approaches to assessment of respiratory disability and impairment. Every 3 years a Jack Pepys Workshop on work-related asthma has been organised with support from Ontario and Quebec compensation systems as well as support from the American Thoracic Society and CIHR. A further workshop in May 2010 include approximately 60 international experts in the field as well as young investigators to exchange

recent knowledge and identify research needs, especially in the area of prevention. A European Academy of Allergy and Clinical Immunology task force has developed a statement on prevention of work-related asthma in young adults within the first few years of starting work. Co-editing a book aiming to provide a practical guide to clinicians for occupational and environmental lung effects that has recently been published in 2010 will enable clinicians to consider and identify respiratory diseases that relate to specific jobs or exposures. A website is being developed to provide knowledge to young asthmatics as to workplace effects on asthma and the appropriate action to take.

EXPERT PANELS:

- 1994 Health Canada. Expert panel: A Hierarchy of Potential health effects from Air Pollution exposure.
- 1996 Ontario Ministry of Health. Expert Panel on Health Effects of Indoor Molds.
- 1998 Cantox Environmental. Expert panel on Human health effects of sulphur in gasoline.
- 1998 Ontario Ministry of Health. Expert Panel Update on Health Effects of Indoor Molds.
- 2000-2001 Ontario Ministry of Health Advisory Subcommittee on Asthma Management Strategies.
- 2001-2005 Member of Workplace Safety and Insurance Board of Ontario Committee on occupational asthma management (Ontario Medical Association Representative).
- 2003-5. Technical expert panel member for AHRQ document on Diagnosis and Management of Work-related asthma. Prepared by University of Alberta Evidence-based Practice centre, AHRQ Publication No. 06-E003-02.
- 2003-5 American College of Chest Physicians consensus panel on cough guidelines.
- 2005-8 Chair, American College of Chest Physicians consensus panel on work-related asthma..
- 2007- 2008 US National Academy of Sciences Panel on Chronic Beryllium Disease, member.
- 2007-11 Panel member American Thoracic Society panel member on Work-exacerbated Asthma
- 2008-current Co-chair American Thoracic Society panel on Spirometry in the Occupational Setting
- 2009-current Panel member American Thoracic Society panel member on Respiratory Impairment and Disability
- 2009-11 Panel member European Academy of Allergy and Clinical Immunology Task Force on prevention of work-related asthma in young workers.
- 2012- Panel member European Academy of Allergy and Clinical Immunology Task Force on Asthma in professional cleaners.
- 2012- Panel member European Academy of Allergy and Clinical Immunology Task Force on Irritant-induced Asthma.
- 2013- Panel member European Academy of Allergy and Clinical Immunology Task Force on Occupational anaphylaxis

BOOKLETS/PATIENT EDUCATION MATERIAL

Cicutto LC, Finlayson S, Scherban C, Tarlo SM. The Asthma Handbook. The Canadian Lung

Association. 1st edition 1993, 2nd edition 1998.

Cicutto LC, Tarlo SM. The Asthma Handbook. The Canadian Lung Association. 3rd edition 2005, 4th edition 2011.

TEACHING ACTIVITIES 1992-1993

Undergraduate:

- 2nd year medical student's respiratory clinical teaching, 3 hours X8
- 2nd year allergy seminars 3 hours
- Women medical student mentor
- Year 3 practice oral exam Int Med
- Clinical clerk Year 4 rotations through ambulatory care clinics

Postgraduate:

- PGY1-4 and respiratory trainee attendance at out-patient clinics during their respiratory medicine rotations.
- Seminars to trainees as part of noon rounds, twice per year.
- Respiratory medicine seminars in occupational lung disease (4 hours).
- Allergy and Clinical Immunology trainee supervision and clinical teaching (6 months, one half day per week).
- Paediatric immunology trainee supervision and clinical teaching one half day per week for 3 months.
- Occupational Medicine trainee supervision and clinical teaching one half day per week for 3 months.
- Family practice resident electives
- Core Internal Medicine oral exam (1 hour)

Primary Hospital/University Teaching Rounds

- CPC - Cystic Fibrosis, Toronto Western Hospital, Oct, 1991.
- Anaphylaxis. Toronto Western Hospital Resident Rounds, July 23, 1992.
- Asthma. Toronto Western Hospital Resident Rounds, Aug, 1992.
- Irritant induced airway disease. Asthma Centre Rounds, Sept 30, 1992.
- Latex Allergy Update, Asthma Centre Rounds, Toronto Western Hospital, Jan 20 1993.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

TEACHING ACTIVITIES 1993-1994:

Undergraduate:

- Arts and Science of Clinical Medicine II, 8 sessions
- Women student mentor.
- Examiner for clerkship OSCE exam

Clinical clerk Year 4 rotations through ambulatory care clinics.
Year III practice oral exam

Postgraduate:

PGY1-4 and respiratory trainee attendance at out-patient clinics during their respiratory medicine rotations, and teaching of pulmonary function test interpretation at rounds as scheduled (about 8 times per year).

PGY1 in training oral exam

Seminars to trainees as part of noon rounds, twice per year.

Respiratory medicine seminars in occupational lung disease (4 hours).

Allergy and Clinical Immunology trainee supervision and clinical teaching (6 months, one half day per week).

Paediatric immunology trainee supervision and clinical teaching one half day per week for 3 months.

Primary Hospital /University Teaching Rounds

Asthma and allergy. Medical residents noon rounds, TGH. Feb 1994.

Pneumoconioses. Respiratory Resident seminar. MSB Mar 1994.

Sulfite sensitivity, Asthma Centre Rounds, TWH, April 1994.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 1994-1995:

Undergraduate:

Year III Clerkship respiratory seminars X 3

Clinical clerk Year 3 preceptor during their internal medicine rotation, and clinical medicine examinations of other clerks at the end of their rotations.

Clinical clerk Year 4 rotations through ambulatory care clinics.

Examiner for clerkship OSCE exam

Postgraduate:

PGY1-4 and respiratory trainee attendance at out-patient clinics during their respiratory medicine rotations, and teaching of pulmonary function test interpretation at rounds as scheduled (about 8 times per year).

Seminars to trainees as part of noon rounds, twice per year.

Respiratory medicine seminars in occupational lung disease (4 hours).

Allergy and Clinical Immunology trainee supervision and clinical teaching (6 months, one half day per week).

Paediatric immunology trainee supervision and clinical teaching one half day per week for 3 months.

Occupational Medicine trainee supervision and clinical teaching one half day per week for 3 months.

Primary Hospital/University teaching rounds

Anaphylaxis. TTH, Western Division, Residents Rounds. 12th July 1994.

Occupational asthma in Ontario. TTH, General Division, Grand Medical Rounds, 21st July, 1994

Asthma, allergy and eosinophilia. Residents rounds, TTH, Feb 1995.

Outcome of occupational asthma. Asthma Centre Rounds, TTH, June 1995.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 1995-1996:

Undergraduate:

Co-supervision of 2 second year students for their project of research in the community (one with MTYR Lung Association and DR B. Zimmerman, and one with Dr F Silverman).

Clinical clerk Year 3 preceptor during their internal medicine rotation, and clinical medicine examinations of other clerks at the end of their rotations.

Clinical clerk Year 4 rotations through ambulatory care clinics.

Postgraduate:

PGY1-4 and respiratory trainee attendance at out-patient clinics during their respiratory medicine rotations, and teaching of pulmonary function test interpretation at rounds as scheduled (about 8 times per year).

Seminars to trainees as part of noon rounds, twice per year.

Respiratory medicine seminars in occupational lung disease (4 hours).

Allergy and Clinical Immunology trainee supervision and clinical teaching (6 months, one half day per week).

Paediatric immunology trainee supervision and clinical teaching one half day per week for 3 months.

Occupational Medicine trainee supervision and clinical teaching one half day per week for 3 months.

Primary hospital/University teaching rounds:

Anaphylaxis and allergy. Residents Rounds, TTH, July 1995.

To shuttle or jog? respiratory effects of air pollution, TTH, Western Division Grand Rounds, Sept 1995.

Occupational lung Disease Seminar, Respiratory Residents, U of T. 13 Dec 1995.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 1996-1997:

Undergraduate:

Clinical clerk teaching in the ambulatory care setting, approx. 20 hours.

Undergraduate summer student supervision, approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 6 hours/week

Respiratory Residents: approx. 1/2 hour/week

Adult Immunology Residents: approx. 3 hours/week

Paediatric elective residents: approx. 1/2 hour/week

Pulmonary function teaching rounds: approx. 8 hours

House staff noon rounds: 2 hours

Respiratory resident seminars: 4 hours

Occupational resident seminars: 4 hours

Respiratory Resident practice oral exam: 1.5 hours

Medical research project supervision, medical resident, Dr Yvonne Wai, Dec 1996
4 weeks

Occupational medicine resident research project supervision, (Dr Sultan Alotaibi)
approx. 10 hours.

Primary Hospital/University teaching rounds

Anaphylaxis. Medical Residents noon rounds, July '96, TTH.

Allergy and Asthma. Medical Residents noon rounds TTH, Feb 1997.

Colds and air pollutants as triggers for asthma. Asthma Centre Rounds, TTH, Apr 15, 1997.

Occupational Asthma. Respiratory Residents, Toronto, May 28, 1997.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee

TEACHING ACTIVITIES 1997-1998:**Undergraduate:**

Clinical clerk teaching in the ambulatory care setting, and preceptor, approx. 20 hours.

Undergraduate summer student supervision, approx. 20 hours.

Elective medical student from Poland, approx. 20 hours

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week

Adult Immunology Residents: approx. 3 hours/week

Paediatric immunology residents: approx. 3 hour/week

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 8 hours

House staff noon rounds: 2 hours
 Respiratory resident seminars: 4 hours
 Occupational resident seminars: approx. 4 hours
 Respiratory Resident practice oral exam: 1.5 hours

Primary Hospital/University teaching rounds:

Occupational asthma in the car industry. Grand Rounds, The Toronto Hospital, Dec 1997.
 Surveillance for occupational asthma. Asthma Centre Rounds, The Toronto Hospital, 12th May 1998.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.
 Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 1998-1999:

Undergraduate:

Year I Respiratory seminar 2 hours
 Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.
 Undergraduate summer student supervision: approx. 20 hours.
 Health in the Community 2nd year student supervision, Amir Ginsberg, approx. 15 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.
 PGY1-4 rotating through respirology: approx. 3 hours/week
 Respiratory Residents: approx. 1/2 hour/week
 Adult Immunology Residents: approx. 3 hours/week
 Occupational medicine residents: approx. 1 hour/week
 Pulmonary function teaching rounds: approx. 8 hours
 House staff noon rounds: 2 hours
 Respiratory resident seminars: 4 hours

Primary Hospital/University teaching rounds:

Anaphylaxis. Noon Resident seminars, The Toronto Western Hospital, July '98.
 Occupational asthma. Respiratory residents seminar, The Toronto Western Div, Oct 1998.
 Occupational Lung Diseases. Respiratory Resident Seminar, Nov 1998.
 Respiratory allergy and asthma. Resident noon rounds, TTH General Division, Feb 15th 1999.
 Respiratory residents seminar, Med Sci Building, U of T. Pneumoconiosis. May 1999.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.
 Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 1999-2000

Undergraduate: Year 1 medical student seminars, respiratory examination, acid-base balance.
 Med Sci Bldg, U of T, Dec 8 and 9th 1999.

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.
 Undergraduate summer student supervision: approx. 20 hours.
 Health in the Community 2nd year student, Stephen Juvet,
 4th Year Student OSCE, Apr 2000.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.
 PGY1-4 rotating through respirology: approx. 3 hours/week
 Elective Year 4 student from Ottawa, Joel Liem, approx 9 hours
 Respiratory Residents: approx. 1/2 hour/week
 Adult Allergy/Immunology Residents: approx. 3 hours/week
 Elective Allergy/Immunology Resident from Spain, Dr San Miguel, approx 9 hours
 Elective Allergy/Immunology Resident from Manitoba, Ont, Dr C Kalikowsky, approx 9 hours
 Elective Allergy/Immunology Resident from London, Ont, Dr Patel, approx 9 hours
 Occupational medicine residents: approx. 1 hour/week
 Pulmonary function teaching rounds: approx. 8 hours
 House staff noon rounds: 2 hours
 Respiratory resident seminars: 4 hours

Primary Hospital/University teaching rounds:

Occupational asthma. Medical Grand Rounds, Mount Sinai Hospital, Toronto, 15th Sept 1999.
 Occupational asthma. Resident seminar, TWH, 21st Oct 1999. Respiratory Allergy, TGH June 2000.

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2000-2001

Summer research students, Vincent Tsui, 3rd year Biology undergrad student U Western Ont, approx 7 hours, and Dilanee Ramanayake, .approx 7 hours.

Undergraduate: Year 1 student seminar on pulmonary function

Year 1 lecture Air Pollution Health Effects in Determinants of Health Course.

Health in the Community (determinants of health): 3x Year 2 students for independent projects, approx. 20hours.

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Undergraduate summer student supervision: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.
 PGY1-4 rotating through respirology: approx. 3 hours/week
 Respiratory Residents: approx. 1/2 hour/week
 Adult Allergy and Clinical Immunology Residents: approx. 3 hours/week

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 8 hours

Chest radiograph teaching rounds: 1 hour

House staff noon rounds: 2 hours

Respiratory resident seminars: 4 hours

Primary Hospital/University teaching rounds:

Can Occupational asthma be prevented? Respiratory research rounds Feb 28th 2001,

MSB

CME: Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2001-2002

Summer research student, Vincent Tsui, 3rd year Biology undergrad student U Western Ont, approx 7 hours, summer 2001.

Undergraduate: Year 1 student seminar on pulmonary function

Health in the Community (determinants of health): 3x Year 2 students for independent projects, approx. 20hours.

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Undergraduate summer student supervision: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week

Adult Allergy and Clinical Immunology Residents: approx. 3 hours/week

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 8 hours

House staff noon rounds: 2 hours

Respiratory resident seminars: 4 hours

Immunology Masters' Students seminar on Immunology of Asthma, Resource staff, Mar 2002, PMH 2 hours + literature review.

Primary Hospital/University teaching rounds:

Can Occupational asthma be prevented? Respiratory research rounds Feb 28th 2001,

MSB

Sick Building Syndrome Grand Rounds Mount Sinai Hospital, Sept 2001

CME: Clinical observer from Japan in occupational lung disease, Dr Z Zheng, Assoc Prof, Univ of Ryakas, Okinawa, Sept -Nov 2001.

Clinical observer from Iran in occupational lung disease, Dr J Peyrovi, Univ of Tehran, Iran Dec 2001-May 2003.

Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2002-2003

Summer research student May-Aug 2003, Victor Ng, Univ Western Ont Med Student.

Undergraduate: Year 1 student seminar on pulmonary function

Health in the Community (determinants of health): 2x Year 2 students for independent projects, approx. 20hours (Crystal Mulligen and Matthew Heffer).

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week

Adult Allergy and Clinical Immunology Residents: approx. 3 hours/week

Pediatric allergy and clinical immunology residents approx 30 hours

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 8 hours

House staff noon rounds: 4 x 1 hours

Respiratory resident seminars: 2 hours (anaphylaxis, allergy and asthma)

Primary Hospital/University teaching rounds:

TWH Clinical research rounds Apr 2003 Occupational asthma.

CME: 2 Clinical observers from Iran in occupational lung disease, Dr J Peyrovi, Univ of Tehran, Iran Dec 2001-May 2003 and Dr Khosro Sadegh Niiat.

Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2003-2004

Summer research student May-Aug 2003, and June-Aug 2004, Victor Ng, Univ Western Ont Med Student.

Undergraduate: Year 1 student seminar on pulmonary examination, Dec '03

Health in the Community (determinants of health): 2x Year 2 students for independent projects, approx. 20hours (Dan Riccuitto and John Kraft).

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week

Elective PGY5 Respiratory Resident, Dr Krista Kemp Jan-Feb 2004.

Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week

Pediatric allergy and clinical immunology residents approx 3 hours
 Occupational medicine residents: approx. 1 hour/week
 Pulmonary function teaching rounds: approx. 8 hours
 Medical house staff noon rounds: 4 x 1 hours (Mount Sinai, Anaphylaxis, Occupational asthma), UHN Anaphylaxis, Asthma and allergy.
 Allergy/Immunology resident seminar x 2, Occupational asthma, Health effects of indoor mold exposure
 Occupational medicine resident seminars x 2, Occupational asthma, Hypersensitivity pneumonitis
 Respiratory resident seminars x 2 hours, occupational lung disease.

Primary Hospital/University teaching rounds:

Please see invited rounds

CME: Clinical observer from Iran in occupational lung disease, Dr J Peyrovi, Univ of Tehran, Iran Dec 2001-Dec 2003

Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2004-2005

Summer research student June-Aug 2005, Romy Seth, Univ Toronto.

Undergraduate: Year 1 student seminar on pulmonary function tests, Nov '04

Health in the Community (determinants of health): Year 2 student Husam-Eldin ABDEL-QADIR, for independent project, approx. 20 hours

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.
 PGY1-4 rotating through respirology: approx. 3 hours/week
 Respiratory Residents: approx. 1/2 hour/week (elective Dr Frank Ritacca)
 Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week
 Pediatric allergy and clinical immunology residents approx 3 hours
 Occupational medicine residents: approx. 1 hour/week
 Pulmonary function teaching rounds: approx. 8 hours
 Medical house staff noon rounds: 4 x 1 hours (Mount Sinai, Anaphylaxis, Occupational asthma), UHN Anaphylaxis, Asthma and allergy.
 Allergy/Immunology resident seminar
 Occupational medicine resident seminars
 Respiratory resident seminars x 2 hours, occupational lung disease.
 Elective final year respiratory residents: Frank Ricatta (U of T), 6weeks, Christine Macey (Univ Winnipeg)

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2005-2006

Summer research student June-Aug 2005, Romy Seth, Univ Toronto.

Undergraduate: Year 1 student seminar on respiratory physical examination, Nov '05

Health in the Community (determinants of health): Year 2 student for independent project, approx. 20 hours, Natasha Saunders.

Medical student lecture on Occupational Lung Disease, Y2 Mar 2006

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Elective allergy/immunology medical student from Italy, Marta Grazzini Aug 2-28, 2005.

Elective 4th year medical student from Dalhousie, Jennifer Fletcher, Nov/Dec 2005.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week (+ elective respiratory fellow from Chile, Dr Miguel Antuenz July-Dec 2005)

Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week

Pediatric allergy and clinical immunology residents approx 3 hours

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 8 hours

Medical house staff noon rounds: 4 x 1 hours (Mount Sinai, Anaphylaxis, Occupational asthma), UHN Anaphylaxis, Asthma and allergy.

Allergy/Immunology resident seminar

Occupational medicine resident seminars

Respiratory resident seminars x 2 hours, occupational lung disease.

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Clinical Immunology Resident Training Committee.

Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2006-7

Summer research student June-Aug 2006, Romy Seth, Univ Toronto (St Michael's Hospital Summer Student Award).

Undergraduate: Year 1 student seminar on respiratory physical examination, Nov '06

Health in the Community (determinants of health): Year 2 student for independent project, approx. 20 hours, Carrie Linde.

Medical student lecture on Occupational Lung Disease, Y2 Mar 2007

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week

Elective respiratory research fellow /visiting professor from Brazil, Dr Marcos Ribiero
Aug 2006-Feb 2008)

Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week

Pediatric allergy and clinical immunology residents approx 9 hours

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 13 hours

Medical house staff noon rounds: 4 x 1 hours (Mount Sinai, Anaphylaxis, Occupational asthma), UHN Anaphylaxis, Asthma and allergy.

Allergy/Immunology resident seminar X 2h

Occupational medicine resident seminars

Respiratory resident seminars x 2 hours, occupational lung disease.

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2007-8

Summer research student June 1st-Aug 30th 2007, Romy Seth, Univ Toronto (Institute of Medical Sciences Summer Student Award).

Summer Research Student Sasha Bhinder June 1st-Aug 30th 2007 (CREMS Student award for 2007)

Elective medical student from Liverpool, UK Emma Ainsworth, June 18th 2007- July 20th 2007.

Elective 4th year medical student Lance Rodin, April 2008.

Undergraduate: Year 1 student seminar on respiratory physical examination, Nov '07

Health in the Community (determinants of health): Year 2 student Hannah Park for independent project, approx. 20 hours.

Medical student lecture on Occupational Lung Disease, Y1

Respiratory Residents Introductory Lectures, July 07, Occupational lung disease.

Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 1/2 hour/week

Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week

Pediatric allergy and clinical immunology residents approx 9 hours/y

Occupational medicine residents: approx. 1 hour/week

Pulmonary function teaching rounds: approx. 13 hours

Medical house staff noon rounds: 4 x 1 hours (Mount Sinai, Anaphylaxis, Occupational

asthma), UHN Anaphylaxis, Asthma and allergy.
 Allergy/Immunology resident seminars X 2h
 Respiratory resident seminars x 2 hours, occupational lung disease.
 Elective respiratory research fellow /visiting professor from Brazil, Dr Marcos Ribiero
 Aug 2006-Feb 2008).
 Elective Respiratory fellow from Australia, Dr Ryan Hoy, July 1st 2007-June 30th 2008.
 Elective medical observer in Occupational Allergy from Mexico, Dr Martin Becerril
 Sept 2007-Oct 2007.
 Mentorship: for Dr Stephen Betschel, Junior Staff Physician, St Michael's Hospital

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2008-9

Summer research student June 1st-Aug 30th 2008, Romy Seth, Univ Toronto (St Michael's Hospital Summer Student Award).
 Summer research student June 1st-Aug 30th 2008, Ben Jung, Univ McGill (IMS Summer Student Award)
 Supervisor medical student Sacha Bhinder, Great Case in Medicine 1st place winner –
 “Development of transient peanut allergy following bilateral lung transplantation” 2009.
 Elective 4th year medical student Lance Rodin, April 2008.
 Undergraduate: Year 1 student seminar on pulmonary function, Nov '08
 Health in the Community (determinants of health): Year 2 students for independent project,
 approx. 20 hours Mark Kuprowski and Peter Dziak 2008-9.
 Medical student lecture on Occupational Lung Disease, Y1
 Respiratory Residents Introductory Lectures, July 08, Occupational lung disease.
 Clinical clerk teaching in the ambulatory care setting, and preceptor: approx. 20 hours.
 Postgraduate:
 Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the
 respiratory, adult and paediatric immunology, and occupational medicine programs.
 PGY1-4 rotating through respirology: approx. 3 hours/week
 Respiratory Residents: approx. 1/2 hour/week
 Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week
 Pediatric allergy and clinical immunology residents approx 9 hours/y
 Occupational medicine residents: approx. 2 hour/year
 Pulmonary function housestaff teaching rounds: approx. 13 hours per year
 Medical house staff noon rounds: 4 x 1 hours (Mount Sinai, Anaphylaxis, Occupational
 asthma), UHN Anaphylaxis, Asthma and allergy.
 Allergy/Immunology resident seminars X 2h
 Respiratory resident seminars x 2 hours, occupational lung disease.
 Elective respiratory research fellow /visiting professor from Brazil, Dr Marcos Ribiero
 Aug 2006-2009).

Elective Respiratory fellow from Australia, Dr Ryan Hoy, July 1st 2007-June 30th 2008.
 Elective family medicine residents approx 30 hours
 Mentorship: for Dr Stephen Betschel, Junior Staff Physician, St Michael's Hospital

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2009-10

Summer research students May-Aug 2009, Brian Fukakusa, Univ Toronto (St Michael's Hospital Summer Student Award), and Joshua Rosenblatt, Univ Toronto (IMS summer student award, 2009), and Mark Kuprowski July/Aug 2009 second year medical student.

Undergraduate: Year 1 student seminar on pulmonary function, Nov '09

Medical student lecture on Occupational Lung Disease, Y1 May 2010

Respiratory Residents Introductory Lectures, July 09, Occupational lung disease.

Clinical clerk teaching in the ambulatory care setting, and preceptor (March 2010): approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 2 hour/month

Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week

Occupational medicine residents: approx. 2 hour/year

Pulmonary function housestaff teaching rounds: approx. 13 hours per year

Medical house staff noon rounds: 2 x 1 hours, UHN Anaphylaxis, Asthma and allergy, and Chest X-rays.

Allergy/Immunology resident seminars X 2h

Respiratory resident seminars x 2 hours, occupational lung disease.

Elective respiratory research fellow /visiting professor from Brazil, Dr Marcos Ribiero Aug 2006-2010).

Elective family medicine residents approx 30 hours

Mentorship: for Dr Stephen Betschel, Junior Staff Physician, St Michael's Hospital

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2009-10

Summer research students May-Aug 2010, Ishita Siddiq (medical student from Dalhousie) (St Michael's Hospital summer student and summer clinical elective) and Joshua Lipszyk, York Univ, Toronto (IMS summer student award, 2010).

Undergraduate: Year 1 student seminar on pulmonary function, Nov '09

Medical student lecture on Occupational Lung Disease, Y1

Respiratory Residents Introductory Lectures, July 10, Occupational lung disease.

Clinical clerk teaching in the ambulatory care setting, and preceptor approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 2 hour/month

Adult Allergy and Clinical Immunology Residents: approx. 2 hours/week

Occupational medicine residents: approx. 2 hour/year

Pulmonary function housestaff teaching rounds: approx. 13 hours per year

Medical house staff noon rounds: 2 x 1 hours, UHN Anaphylaxis, Asthma and allergy,

Chest X-rays.

Allergy/Immunology resident seminars X 2h

Respiratory resident seminars x 2 hours, occupational lung disease.

Elective respiratory research fellow /visiting professor from Brazil, Dr Marcos Ribiero (Aug 2006-2011).

Elective family medicine residents approx 30 hours

Mentorship: for Dr Stephen Betschel, Junior Staff Physician, Allergy and Clinical Immunology, St Michael's Hospital

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2010-11

Summer research students May-Aug 2010, Ishita Siddiq (medical student from Dalhousie) (St Michael's Hospital summer student and summer clinical elective) and Joshua Lipschik, York Univ, Toronto (IMS summer student award).

Undergraduate: Year 1 student seminar on respiratory physical examination, fall 2010,

Medical student lecture on Occupational Lung Disease, Y1

Year 2 DOCH student Jessica Friedlich

Year 4 medical student respiratory research elective Mark Kuprowski

Year 4 medical student resp elective Ben Jung, McGill Medical School

Respiratory Residents Introductory Lectures, July 2010, Occupational lung disease.

Clinical clerk teaching in the ambulatory care setting, and preceptor approx. 20 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 2 hour/month

Adult Allergy and Clinical Immunology Residents: approx. 1 hours/week

Occupational medicine residents: approx. 2 hour/year

Pulmonary function housestaff teaching rounds: approx. 13 hours per year
 Medical house staff noon rounds: 2 x 1 hours, UHN Anaphylaxis, Asthma and allergy, and Chest X-rays.

Respiratory resident seminars x 2 hours, occupational lung disease.

Respiratory fellow in occupational lung disease, Dr Tom Lim from Univ. Calgary Jan 2011-Feb 2012

Elective respiratory and occupational medicine research fellow from Brazil, Dr Marcos Ribiero, (Aug 2006-2013)

Elective family medicine residents approx 30 hours

Mentorship: for Dr Stephen Betschel, Junior Staff Physician, St Michael's Hospital

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2011-12

Respiratory Residents Introductory Lectures, July 2011, Occupational lung disease.

Clinical clerk teaching in the ambulatory care setting, approx. 10 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 2 hour/month

Elective respiratory fellow Dr Connie Mackenzie, U Western Ont.,

Adult Allergy and Clinical Immunology Residents: approx. 1 hours/week

Pulmonary function housestaff teaching rounds: approx. 13 hours per year

Medical house staff noon rounds: 2 x 1 hours, UHN Anaphylaxis, Asthma and allergy, and Chest X-rays.

Respiratory resident seminars x 2 hours, occupational lung disease.

Advanced pulmonary function in occupational and environmental lung disease seminar for Resp fellows 2h.

Respiratory fellow in occupational lung disease, Dr Tom Lim from Univ. Calgary Jan 2011-Feb 2012

Elective respiratory and occupational medicine research fellow from Brazil, Dr Marcos Ribiero, (Aug 2006-2013)

Elective family medicine residents approx 30 hours

Mentorship: for Dr Stephen Betschel, Junior Staff Physician, St Michael's Hospital

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

TEACHING ACTIVITIES 2012-13

Year 2 DOCH student Shivangi Trivedi

Clinical clerk teaching in the ambulatory care setting, and preceptor approx. 15 hours.

Postgraduate:

Teaching in the ambulatory care setting of PGY1-4s and subspecialty residents in the respiratory, adult and paediatric immunology, and occupational medicine programs.

PGY1-4 rotating through respirology: approx. 3 hours/week

Respiratory Residents: approx. 2 hour/month

Adult Allergy and Clinical Immunology Residents: approx. 1 hours/week

Pulmonary function housestaff teaching rounds: approx. 10 hours per year

Medical house staff noon rounds: 2 x 1 hours, UHN Asthma and allergy, and Pulmonary function tests.

Respiratory resident seminars x 2 hours, occupational lung disease.

Advanced pulmonary function in occupational and environmental lung disease seminar for Resp fellows 2h

Elective respiratory and occupational medicine research fellow from Brazil, Dr Marcos Ribiero, (Aug 2006-2013)

Elective family medicine residents approx 30 hours

Primary Hospital/University teaching rounds:

Please see invited lectures.

Administrative: Member, Occupational Medicine Resident Training Committee.

Member, Paediatric Allergy and Clinical Immunology Residency Training Committee