

BIOGRAPHICAL SKETCH

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NAME: Cicutto, Lisa

eRA COMMONS USER NAME (agency login): LISA_CICUTTO

POSITION TITLE: Director, Community Outreach and Research; Professor, National Jewish Health; Director, Clinical Science Program, University of Colorado Denver-AMC

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Colorado Health Sciences Center, Denver, CO	BSN	05/1986	Nursing
University of Toronto, Faculty of Nursing, Toronto, Ontario	MSc	11/1992	Nursing
University of Toronto, Institute of Medical Science, Toronto, Ontario	PhD	06/1997	Respiratory Medicine
University of Toronto, Faculty of Nursing and Toronto Hospital-Toronto Western, Toronto, ON	Certificate	06/1997	Acute Care Nurse Practitioner-
Canadian Network for Asthma Care/Michener Institute, Toronto, Ontario	Fellow	06/1999	Respiratory ACNP Clinical Fellowship
	Certificate	1999	Asthma Educator

A. PERSONAL STATEMENT

In October of 2016, Dr. Lisa Cicutto became the Director of Education, Training and Career Development at the Colorado Clinical and Translational Sciences Institute (CCTSI). Since 2008, she has served as the Director of the Clinical Science Graduate Program at the University of Colorado Denver and the degree granting and graduate coursework offering program of the CCTSI for advanced preparation in clinical and translational sciences. Additionally, she is the Director of Community Outreach and Research at National Jewish Health. The Clinical Science Program offers both masters and doctoral programs with over 100 degree students and over 140 graduate faculty. The CLSC is dedicated to training premier clinician scientists. She has mentored and trained numerous multi-disciplinary clinicians (from medical students to post-doctoral fellows) that have progressed to leadership positions in their fields. Her passion is to work with, mentor and train future scientists to answer important patient/public health oriented questions that are subsequently translated to patients/people living in their communities. She has served in key roles and capacities for over 45 students related to their research projects and theses. In addition, she teaches at least four courses per year to develop and sustain engagement with students. CLSC students and alumni have published over 2,500 peer-reviewed publications and received over 650 funded grants. Her specific area of research focus is pulmonary and allergic related care and lung health in communities through translation and uptake of the best available evidence by multi-disciplinary providers and patients and families. She has served as a PI for randomized controlled trials, surveillance, program evaluation, knowledge translation and implementation, and observational studies that have assessed outcomes related to symptom experience, flare-ups, health services use, knowledge, attitudes, perceptions and behavior change related to lung health and allergies. She has developed, evaluated and implemented, on a broad scale, practice improvement projects for multidisciplinary health care providers related to asthma care across primary care, inpatient, emergency, and school settings. She conducted a national study in Canada evaluating legislation and provincial policy for school settings regarding the prevention and management of life threatening allergies. Taken together, her significant experience with educating, training and mentoring future investigators combined with her diverse research background and dedication to lifelong learning provide the desirable qualities as Director of the CCTSI Translational Endeavors, Workforce Development Program and the Associate Director of the CCTSI KL2 program and Director of the CCTSI TL1 Program.

B. POSITIONS AND HONORS

Positions and Employment

1996 – 1997	Instructor, Innis College, Environmental Studies, University of Toronto, Toronto
1997 – 2002	Director, Acute Care Nurse Practitioner Program, Faculty of Nursing, University of Toronto, Toronto
2000 – 2010	Cross appointment, Faculty of Medicine, Division of Respiriology, University of Toronto, Toronto
2003 – 2010	Cross appointment, Graduate Faculty, Institute of Medical Science, University of Toronto, Toronto
2004 – 2009	Associate Professor with tenure, Faculty of Nursing, University of Toronto, Toronto
2005 – 2007	Graduate Chair, Faculty of Nursing, University of Toronto, Toronto
2007 – 2011	Associate Professor, College of Nursing University of Colorado and Colorado School of Public Health, Aurora, CO
2008 –	Program Director, Clinical Science Graduate Program, University of Colorado, Aurora, CO
2011 –	Professor of Medicine, National Jewish Health, Denver, CO

Other Experience and Professional Memberships

1994 – 2004	Board of Directors, Canadian Network for Asthma Care
1995 – 2001	Canadian National Asthma Task Force, Health Canada/Laboratory Centre for Disease Control
1999 – 1999	Advisory Committee, Ontario Ministry of Health and Long Term Care, Government of Ontario. Report of the Chief Medical Officer of Health
1999 – 2001	Ad-hoc member, Expert Working Group on Metered Dose Inhalers, Health Canada, Health Protection Branch, Therapeutics Products Program
2000 – 2010	Asthma Strategy Advisory Board, Ontario Ministry of Health and Long Term Care, Government of Ontario
2007 – 2011	Board of Directors Member and Vice President Programs, American Lung Association of Colorado
2008 – 2015	Patient-Academician Community Translation Council, Colorado Clinical and Translational Sciences Institute
2008 – 2009	Steering Committee and School and Childcare Workgroup Chair, Colorado State Asthma Plan
2009 – 2012	Board Member, American Thoracic Society
2009 – 2012	Chair, Nursing Assembly, American Thoracic Society
2009 – 2014	Member, Policy, Ethics, Law, Society Committee, AllerGen National Centre of Excellence

Honors

1996	Nurse Scholar, Canadian Nurses' Respiratory Society, Canadian Lung Association
2000	The Founder's Award (Recognition of significant contribution to respiratory health in Canada), The Canadian Lung Association
2007	Ontario Lung Association Award for the best student research presentation was named the Lisa Cicutto Student Award in recognition of contributions and efforts as a researcher, clinician, leader and volunteer to the respiratory community, Ontario Lung Association
2010	Awarded Les A. MacDonald Award, National award to recognize outstanding contributions to asthma and respiratory care through leadership, research, and education in Canada
2010	Outstanding Teacher Award, Clinical Science Program, University of Colorado

C. CONTRIBUTION TO SCIENCE

My program of research focuses on optimizing health, especially lung and allergic health, through bridging gaps in understanding, communication, coordination and care among communities, schools, families, individuals, patients and health providers. The following are among my most significant contributions.

1. Community Engaged Research: For over 15 years I have partnered with community to perform meaningful and responsive research. Too often research conducted is not responsive to the needs of community or translated for application so that community can experience the benefits of the scholarly work. Much my work over the years has focused on translating the evidence for uptake into a variety of community settings that include schools, childcare, community health care settings, and community to optimize practice and health outcomes.

- a. Morrato EH, Rabin B, Proctor J, **Cicutto LC**, Battaglia C, Lambert-Kerner A, Leeman-Castillo B, Prah-Wretling M, Nuechterlein B, Glasgow RE, Kemp A. Bringing it home: Expanding the local reach of dissemination and implementation training via a university-based workshop. *Implementation Science*. 2015;10:94 DOI 10.1186/s13012-015-0281-6
- b. **Cicutto L**, Julien B, Li N, Nguyen Luu N, Butler J, Clarke A, Elliott S, Harada L, McGhan S, Stark D, Wasserman S. Comparing school environments with and without legislation for the prevention and management of anaphylaxis. *Allergy*. 2012;67:131-137 PMID: 21951319.
- c. Alley S and **Cicutto L**. Exploring the supportiveness and preparedness of child care settings for children with asthma: A needs assessment. *Journal of Asthma*. 2009;46(5):512-516. PMID: 19544174. Accompanying website developed for practice support http://www.asthmainschools.com/index.php?option=com_content&view=article&id=94&Itemid=10013
- d. **Cicutto LC**, and Ashby M. A toll free asthma helpline: service provision and impact. *Journal of Asthma*. 2007;Nov44(9):705-10. PMID: 17994398

2. School-centered Asthma Programs: Based on my earlier research, I observed that only a minority of children and their families were attending asthma education programs and developing important self-management skills. To overcome barriers to attending asthma education programs, we developed, implemented and evaluated a school-centered asthma education program. Our initial project was a very large RCT conducted in 5 public health departments/regions of Ontario involving over 150 schools. We observed improvements in asthma knowledge and skills, quality of life, absenteeism, days of interrupted activity for children and parents and days of work lost for parents. As a result of this project, this program is part of public health throughout Ontario and has informed programs in Manitoba and Alberta. Since returning to Colorado, I have continued to work in schools related to asthma in rural and urban settings as well as with the Colorado Department of Education, School Health and Wellness.

- a. **Cicutto L**, Gleason M, Haas-Howard C, Jenkins-Nygren L, Labonde S. Competency-based framework and continuing education for preparing a skilled school health team workforce in asthma care: The Colorado experience. *Journal of School Nursing*. 2016; 31(2): 112-8. PMID: 26822131.
- b. **Cicutto L**, Gleason M, Szeffler S. Establishing school-centered asthma programs. *Journal of Allergy and Clinical Immunology*. 2014;134(6):1223-1230. PMID: 25482867
- c. **Cicutto L**, To T, Murphy S. A randomized controlled trial of a public health nurse delivered asthma program to elementary schools. *Journal of School Health*. 2013;83:876-884. PMID: 24261522. Accompanying website developed for practice support- Creating Asthma Friendly Schools Resource Kit: www.asthmainschools.com.
- d. **Cicutto LC**, Murphy S, Coutts D, Lang G, O'Rourke J, Chapman C, Coates P. Breaking the access barrier: Evaluating an Asthma Center's efforts to provide an education program to children with asthma in elementary schools. *CHEST*. 2005 Oct; 128(4): 1928-35. PMID: 16236837

3. Health Provider Decisions and Practices: Too often evidence-based practice guidelines do not translate into improvements in care. There are several complex reasons and are typically related to a lack of understanding, skills, existing infrastructure, clinical supports, flow, and organizational structure and culture. We have developed, implemented and evaluated several multi-faceted (complex) interventions to improve quality health care that were informed through the completion survey, chart audits, and environmental scans. Work completed for my PhD informed a national survey of providers and the subsequent results informed the development of Canadian asthma practice guidelines and support. Our research demonstrates that gaps in the provision of evidence-based guidelines can be bridged through the provision of complex programs that lead to guideline consistent care and improved patient outcomes.

- a. **Cicutto L**, Dingae M, Langmack E. Improving asthma care in rural primary care practices: A performance improvement project. *Journal of Continuing Education in the Health Professions*. 2014;34(4):205-14. PMID: 25530290. Accompanying website developed for practice support: Quality Asthma Care Program for the San Luis Valley. www.qualityasthmacare.com, 2012.
- b. To T, McLimont S, Wang C, **Cicutto L**. How much do health care providers value a community-based asthma care program? - A survey to collect opinions on the utilities of and barriers to its uptake. *BMC Health Services Research*. 2009.11;9(1):77 PMID: 19432986. PMCID PMC2689182

- c. To T, **Cicutto LC**, Degani N, McLimont S, Beyenne J. Can a community evidence-based asthma care program improve clinical outcomes? A longitudinal study. Medical Care. 2008;46(12):1257-1266. PMID: 19300316
- d. **Cicutto LC**, Geerts W, Llewellyn-Thomas HA. Physician's approaches to providing asthma education to their patients and the level of patient involvement in management decisions. Journal of Asthma. 1999;36(5): 427-439. PMID: 10461932

4. Supporting Self-care Decisions, Behavior and Practices: When I started my career very little work was done in this area but others have recognized that this understanding is fundamental. I started research in the area of self-care during my Masters degree. I started this body of work through understanding the decision making process (using qualitative and quantitative methods) and then developing innovative supports to make informed decision and to practice successful self-care strategies. This work integrates multiple theories and frameworks including the decision sciences, social cognitive theory, the Transtheoretical Model, patient activation, shared-decision making, and communication. This research supports the importance of all of these models/theories across youth and adults and disease states (asthma, allergies, COPD, and lung transplantation). Our work points to the need for complex multi-faceted interventions for changing behavior to support successful self-care and that depending on the context and the action differing interventional supports are required. It also highlights the important role of health providers in achieving successful self-care.

- a. Stewart M, Letorneau N, Masouda JR, Anderson S, **Cicutto L**, McGhan S, Watt S. Support needs and preferences of young adolescents with asthma and allergies: "just no one really seems to understand". Journal of Pediatric Nursing. 2012;27(5):479-90. PMID: 22920659
- b. Letorneau N, Stewart M, Masouda J, McGhan S, **Cicutto L**, Watt S. Impact of online support for youth with asthma and allergies: Pilot study. Journal of Pediatric Nursing. 2012;27(1):65-73. PMID: 22222108
- c. Bhinder S, **Cicutto L**, Tarlo S. Perception of asthma as a factor in career choices of young adults with asthma. Canadian Respiratory Journal. 2009;16(6):e69-74. PMID: 20011720. PMCID PMC 2807797
- d. **Cicutto LC**, Brooks D. Self-care approaches to managing chronic obstructive pulmonary disease: A provincial survey. Respiratory Medicine. 2006; 100(9):1540-6. PMID: 16483758

5. Surveillance: Surveillance is paramount for data driven resource allocation decisions. It is important for identifying and characterizing problems, trends over time, and evaluating strategies directed at addressing the identified problems. In Canada, I was involved in validating our case finding/identification methods and for setting-up and establishing provincial surveillance systems for asthma, COPD, and work related asthma. Since moving back to Colorado and working with the San Luis Valley, I became acutely aware of how a lack of surveillance data continues to disadvantage the region. Working with Dr. Marshall, public health departments, community health providers and schools, we established a Coordinated Health Assessment and Management Program (CHAMP) that collects physical (lung health, ht/wt/BMI, blood pressure, vision, hearing), social/emotional wellness, and public health (immunization) data from k-12 students and families. These data can serve as a sentinel for chronic conditions in the community and have allowed the community to quantify the needs of the community and secure state funding to address these needs. In addition, these events strengthen the child health system through comprehensive assessments as part of school registration, early intervention, and team-based care linking families with health care and other community resources to improve health status of children in the SLV. This process is sustained in three large school districts and is expanding to a fourth district this year.

- a. Kinney G, Thomas DSK, **Cicutto L**, Newman LS, Lutz S, Hokanson JE. The protective effect of Hispanic ethnicity on chronic obstructive pulmonary disease mortality is mitigated by smoking behavior. J Pulm Respir Med. 2014;4:220.doi 10.4172/2161-105X.1000220.
- b. Ballman M, Neri EM, Borawski EA, Bruckman D, **Cicutto L**, Geiser J, Marshall JA. Prevention Research Center-Health Department collaborations: Case studies of collaborative surveillance. Preventing Chronic Disease: Public Health Research, Practice and Policy. *In press*.
- c. To T, Tarlo SM, McLimont S, Haines T, Holness DL, Loughheed MD, Liss GM, **Cicutto L**. Feasibility of a provincial voluntary reporting system for work-related asthma in Ontario. Canadian Respiratory Journal. 2011;18(5):275-277. PMID: 21969929. PMCID: PMC3267605.

- d. Gershon A, Wang C, Vasilevska-Ristovska J, Guan J, **Cicutto L**, To T. Identifying patients with physician-diagnosed with asthma in health administrative databases. Canadian Respiratory Journal. 2009;16(6):183-189. PMID: 20011720. PMCID: PMC2807792.

Complete List of Published Work in My Bibliography (Total publications: 93 plus 8 book chapters)

<http://www.ncbi.nlm.nih.gov/myncbi/lisa.cicutto.1/bibliography/41196609/public/?sort=date&direction=ascending>

D. RESEARCH SUPPORT

Ongoing Research Support

2016/08/05-2019/08/30

83618701 Environmental Protection Agency

Cicutto (Co-PI)

Monitoring the Air in our Community: Engaging Citizens in Research. The goal of this project is to use citizen science approaches to monitoring and using air quality data to inform decisions and actions to reduce exposures of concern.

2014/05/01-2018/04/30

UL1 TR000154, NIH/CTSA

Sokol (PI)

Colorado Clinical and Translational Sciences Institute (CCTSI)

The mission of the CCTSI is to enrich the integrated academic home and environment for clinical and translational science that will enhance the quality, efficiency and safety of research across our institutions and communities. My role within the grant is to direct the Clinical Science Program, teach graduate courses, mentor students and trainees, and work collaboratively with other educators to transform the academic landscape that supports the CCTSI's mission.

Role: Collaborator/Director, Clinical Science Program

2016/10/01-2018/07/30

N/A, Colorado Dept. of Public Health & Environment

Cicutto (PI)

School Based Comprehensive Asthma Management Program in the San Luis Valley.

The goal of this project is to provide a school-based asthma management program in rural Colorado to improve access to specialty care and to reduce asthma related morbidity and burden.

Completed Research Support

2012/12/01-2016/01/31

N/A, Jessie Ball duPont Fund

Cicutto (PI)

Transforming Child Health in the San Luis Valley

The goal of this project is to provide school-based comprehensive and coordinated well child assessments during school registration in 5 school districts in Southern Colorado.

2009/07/01-2015/06/30

N/A, Colorado Dept of Public Health & Environment

Cicutto (PI)

Comprehensive Asthma Management Program in the San Luis Valley (CAMP SLV)

Provide a school-based asthma management program in rural Colorado to improve access to specialty care and to reduce asthma related morbidity and burden.

10/1/2012-6/30/2014

96800301 Environmental Protection Agency. Environmental Education Award

Cicutto (PI)

Building Communities of Learning for Environmental Stewardship: Air Quality and Human Health

The overall goal of the proposed project is to build capacity for sustainable, youth-driven, environmental stewardship activities focused on air quality and human health throughout Colorado.