



## **BENJAMIN K.A. THOMSON**

B.Sc (Hon), M.Sc., MB, BCh, BAO

FRCPC (Internal Medicine), FRCPC (Nephrology)

MPH Candidate (Johns Hopkins University)

**Last update:** March 20, 2022

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### **RELEVANT GLOBAL HEALTH EXPERIENCE**

#### **MSERS (Medical Subspecialty Education for low-Resource Settings)** *Jan 2021-present*

- Developed education series for 133 Indigenous communities in Ontario
- Through evaluation and feedback from Indigenous communities, developed template for similar educational interventions in other health jurisdictions
- Collaborated with Indigenous Services Canada (ISC) to enhance content and delivery

#### **Glia Equal Care, Medical consultant** *Jan, 2019 to present*

- Project leader for Aerosol-reducing mask: Secured Health Canada approval after design and testing with multi-disciplinary group of engineers, physicians, nurses, paramedics.
- Creator and project coordinator: “Kidney-CAP”- to be released later in 2022.

#### **Keys of Health Fellowship, Founder and President** *June, 2012 to present*

- Identifies critically needed subspecialties in marginalized countries, to train in Canadian subspecialty training programs, to return to marginalized countries
- <http://keysofhealth.ca>, Registered Charity Number 821896875RR001
- Supported by Global Affairs Canada by Ontario Council for International Cooperation

#### **Global Health Curriculum Committee, Queen’s University** *June, 2018 to Sept, 2019*

- Collaborate with health care professionals to develop Global Health Curriculum
- Assessed projects of committee members to enhance funding and project sustainability

#### **EmpowerGaza, Co-Founder and Co-President** *Jan, 2015 to Jan, 2018*

- Performed needs assessment of Gaza hospitals, identifying solar panel energy systems as critical need for health care facilities in Gaza
- Organized international fundraiser with combination of online/event/private donors.
- Facilitated training of local engineers in Palestine for systems sustainability

#### **Central Africa Community Health Alliance, Mission attendee and organizer** *2012, 2018*

- Developed plan, fundraised and built Women’s Center specifically for marginalized or abused women in Kamengo.
- Provided primary care needs and taught local health care officers 2012 and 2018.



## **CLINICAL APPOINTMENTS**

**Mackenzie Health**, Division of Nephrology

*Sept 2019 – present*

- Attending physician for outpatient and inpatient nephrology

**Queen’s University**, Division of Nephrology.

*July 2015-present*

- Served on the Resident Program Committees for Nephrology and Internal Medicine
- Competency Based Medical Education Advisor for Nephrology and Internal Medicine
- Attending physician for outpatient and inpatient nephrology and Internal Medicine
- Medical director, Home Dialysis, Aug 2015 to Sept 2019:
  1. Led 2<sup>nd</sup> fastest growth rate in Ontario, a 289% increase in program size in 3 years.
  2. Developed Quality Improvement Initiative, reducing PD peritonitis rates 45%
- Site investigator for 3 multicenter trials (CONNECT, ACHIEVE, PDOPPS)
- Promoted from Assistant to Associate Professor in first contract cycle, July 2018

**IUG Medical School** (Gaza City, Occupied Territories of Palestine).

*Feb 2013 to present*

- Annual lecturer of genitourinary block to pre-clinical year medical students
- Annual physical examination demonstrator/instructor to clinical-year medical students

**Western University**, Division of Nephrology

*July 2012 - June 2015*

- Attending physician for outpatient CKD/general nephrology clinics 2x/week and inpatient internal medicine (10 weeks/annum) and nephrology (6 weeks/annum)
- Initiated Monthly Refugee GIM outpatient clinic, London Intercommunity Health

## **POST-GRADUATE EDUCATION**

**Clinical Investigator Program**, Western University

*July 2012-June 2015*

- Completed Masters in Medical Biophysics (Dean’s List)

**Nephrology Subspecialty Clinical Fellowship**, Western University

*July 2010-June 2012*

- Creator and course advisor or “Physicians as Leaders”
- Published Critical References Nephrology
- Chief Nephrology Fellow: Developed academic half-day curriculum, renal physiology course, lecture evaluation system.

**Internal Medicine Clinical Fellowship**, University of Calgary

*July 2007 - June 2010*

- Top senior resident, Rockyview Hospital, for July 2008 to June 2009
- Model of Professionalism award, 2009

## **ACADEMIC AWARDS**

Dean’s List, Masters of Science (Medical Biophysics)

*2013-2015*

Dean’s List, National University of Ireland (Cork) Medical School

*2006-2007*

Dean’s List, National University of Ireland (Cork) Medical School

*2004-2005*

First Class Honours, National University of Ireland (Cork) Medical School

*2003-2004*

- Not eligible for Dean’s list for 2003-2004 as I was the lecturer for one of the courses

Dean’s List, National University of Ireland (Cork) Medical School

*2002-2003*



## **PROFESSIONAL AWARDS**

Queen's University, Department of Medicine Exceptional Service Award	2019
Kingston "Exceptional Healer Award" (for top clinician)- finalist	2019
Kingston "Exceptional Healer Award" (for top clinician)- finalist	2018
Queen's University Department of Medicine Mentor of the Year Award	2018
KHSC Program of the Year – Home Therapies (Medical Director)	2018
ORN Achieved Target Award – Home Therapies (Medical Director)	2018
ORN Program Improvement Award – Home Therapies (Medical Director)	2018
Western University, Department of Medicine, Top Faculty Teaching Award	2015
Western University, Top Internal Medicine attending physician (finalist)	2015
Western University, Department of Medicine, Top Faculty Teaching Award	2014
Western University, Top Internal Medicine attending physician (finalist)	2014
University of Waterloo Lifetime Achievement Award	Sept, 2013
Kristin Sivertz National Resident Leadership Award- Finalist	June 2012

## **COMMITTEE SERVICE**

Ontario Renal Network Home Dialysis Research Committee	Jan, 2018 to present
Association of Palestinian Canadian Physicians (Creator and Head)	Jan, 2018 to Dec, 2019
Ontario Renal Network Home First Committee	Jan, 2016 to present
Global Health Curriculum Committee, Queen's University	June, 2018 to Sept, 2019
Queen's Medical School Curriculum Review Committee	Sept, 2017 to Sept 2019
CBME Accreditation Committee, Nephrology, Queen's University	July, 2017 to Sept, 2019
CBME Accreditation Committee, Internal Medicine, Queen's University	July, 2017 to Sept, 2019
Residency Program Committee, Nephrology, Queen's University.	July, 2015 to July, 2019
Residency Program Committee, Internal Medicine, Queen's University	July, 2015 to July, 2019
Ministry of Health-Long Term Care Home Therapies Panel	July, 2017-Dec 2018

\*CBME = Competency-Based Medical Education

## **PUBLICATIONS:**

### ***In Press:***

Thomson BKA, O'Halloran H, Wu L, Gauthier S, Taylor D. Transition to Practice Curriculum for General Internal Medicine Physicians: Scoping Review and Canadian National Survey. BMC-Medical Education

### ***Published:***

1. Thomson BKA, Vaughan S, Momciu B. Mycobacterium tuberculosis peritonitis in peritoneal dialysis patients: A scoping review. Nephrology 2022; (27(2): 133-144
2. Thomson BKA, Pilkey NG, Monteith B, Holden RM. A Scoping Review of Alternative Anticoagulation Strategies for Hemodialysis Patients with a Mechanical Heart valve. Am J Nephrol 2021; 52(10-11): 861-870.
3. Ovtcharenko N, Thomson B. Interventions to Improve Clinical Outcomes in Indigenous or Remote Patients with Chronic Kidney Disease: A Scoping Review. Can J Kidney Health Dis. 2019; 6: 1-13.
4. Hunter KA, Thomson B. A Scoping Review of Social Determinants of Health Curricula in Post-Graduate Medical Education. Can Med Educ J 2019; 10(3); e61-e71.
5. Velenosi TJ, Thomson BKA, Tonial NC, RaoPeters AAE, Mio MA, Lajoie GA, et al. Untargeted metabolomics reveals N, N, N-trimethyl-L-alanyl-L-proline betaine (TMAP) as a novel biomarker of kidney function. Sci Rep. 2019;9(1):6831.



6. Lip A, Warias A, Shamseddin MK, Thomson B, Wijeratne DT. Effect of Bisphosphonates on Bone Health in Adult Renal Transplant Patients: Beyond the First Year Posttransplant-A Systematic Review and Meta-Analysis. *Can J Kidney Health Dis.* 2019;6:2054358119858014.
7. Wijeratne DT, Srivastava S, Chan B, Hopman W, Thomson B. Sustainability of physical exam skills in a resident-led curriculum in a large internal medicine program with competency based medical education. *Can Med Educ J.* 2018;9(4):e78-e92.
8. Veltri NL, Hladunewich M, Bhasin A, Garland J, Thomson B. De novo antineutrophil cytoplasmic antibody-associated vasculitis in pregnancy: a systematic review on maternal, pregnancy and fetal outcomes. *Clin Kidney J.* 2018;11(5):659-66.
9. Thomson BKA. Should Canadian medical schools have trainees funded by Saudi Arabia? *CMAJ.* 2018;190(50):E1485.
10. Boukhari B, Morton AR, Thomson BKA, Shamseddin MK.. Enhancing Internal Medicine Trainees Nephrology Competency: Queen's Nephrology E-learning using WhatsApp (Q-new) Study. *Internal Medicine.* 2017;7(4):249.
11. H S, M M, K S, B T. Enhancing Internal Medicine Residents' Royal College Exam Competency Using In-Training Written Exams within a Competency Based Medical Education Framework. *Canadian Journal of General Internal Medicine.* 2017;12(1).
12. BK T, L L, RM L. Clinical effects of personalized dialysate sodium in conventional, quotidian and nocturnal hemodialysis patients: A randomized crossover trial. *Journal of Clinical and Experimental Nephrology.* 2017;2(39):1-8.
13. BK T, L L, RM L. Effect of Personalized Dialysate Sodium Prescription on Plasma Sodium Concentration and Sodium Setpoint in Conventional, Quotidian and Nocturnal Hemodialysis. *Journal of Nephrology and Therapeutics.* 2017;7(3).
14. Thomson BK, Nolin TD, Velenosi TJ, Feere DA, Knauer MJ, Asher LJ, et al. Effect of CKD and dialysis modality on exposure to drugs cleared by nonrenal mechanisms. *Am J Kidney Dis.* 2015;65(4):574-82.
15. Thomson BK, Huang SH, Lindsay RM. The choice of dialysate sodium is influenced by hemodialysis frequency and duration: what should it be and for what modality? *Semin Dial.* 2015;28(2):180-5.
16. Huang SH, Tirona RG, Reid-Wilkinson F, Thomson BK, Filler G, Stodilka R, et al. The kinetics of cystatin C removal by hemodialysis. *Am J Kidney Dis.* 2015;65(1):174-5.
17. Thomson BK, Huang SH, Chan C, Urquhart B, Skanes A, Lindsay RM. Nocturnal home hemodialysis associates with improvement of electrocardiographic features linked to sudden cardiac death. *ASAIO J.* 2014;60(1):99-105.
18. Thomson B, Joseph G, Clark WF, Hladunewich M, Patel A, Blake P, et al. Maternal, pregnancy and fetal outcomes in de novo anti-glomerular basement membrane antibody disease in pregnancy: a systematic review. *Clin Kidney J.* 2014;7(5):450-6.
19. Marek C, Thomson B, Shoker A, Luke PP, Moser MA. The prognostic value of time needed on dialysis in patients with delayed graft function. *Nephrol Dial Transplant.* 2014;29(1):203-8.
20. Huang SH, Shah S, Thomson BK, Laporte S, Filler G, Lindsay RM. What is single needle cannulation hemodialysis: is it adequate? *Blood Purif.* 2014;38(1):13-7.

## **JOURNAL REVIEW**

Since 2015, I have reviewed manuscripts for: *Clinical Journal of the American Society of Nephrology*, *Canadian Journal of Kidney Health and Disease*, *Annals of Internal Medicine* and the *Canadian Journal of Medical Education*.