



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

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

FRCPC (Internal Medicine)

FRCPC (Nephrology)

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### **EDUCATION AWARDS**

- |   |                  |
|---|------------------|
| Queen's University, Department of Medicine Most Outstanding Clinician Award | 2019             |
| - Top clinical teacher in the Department of Medicine                        |                  |
| Queen's University Department of Medicine Mentor of the Year Award          | 2018             |
| - Top mentor of resident physicians in the Department of Medicine           |                  |
| Western University, Top Internal Medicine attending physician (finalist)    | 2015             |
| - Top clinician teacher in the Division of Internal Medicine (final 3)      |                  |
| Western University, Department of Medicine, Top Faculty Teaching Award      | 2015             |
| - Top Faculty Teacher in the Department of Medicine                         |                  |
| Western University, Top internal medicine attending physician (finalist)    | 2014             |
| - Top clinician teacher in the Division of Internal Medicine (final 3)      |                  |
| Western University, Department of Medicine, Top Faculty Teaching Award      | 2014             |
| - Top Faculty Teacher in the Department of Medicine                         |                  |
| Kristin Sivertz National Resident Leadership Award- Finalist                | <i>June 2012</i> |
| - For contributions to the Nephrology Fellowship program (final 3)          |                  |

### **CLINICAL APPOINTMENTS**

- Mackenzie Health**, Division of Nephrology *Sept 2019 – present*
- Attending physician for outpatient chronic kidney disease/kidney transplant/general nephrology/hemodialysis/peritoneal dialysis/home hemodialysis and inpatient nephrology ward and consult services.
- IUG Medical School** (Gaza City, Occupied Territories of Palestine). *Feb 2013 to present*
- 4 weeks per annum in Gaza, presenting to medical students and advancing humanitarian projects (such as EmpowerGaza and Keys Of Health Fellowship)
  - Annual lecturer of genitourinary block to pre-clinical year medical students
  - Annual physical examination demonstrator and instructor to clinical-year medical students



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

*July 2015-Sept 2019*

- 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 chronic kidney disease/kidney transplant/general nephrology/hemodialysis/peritoneal dialysis/home hemodialysis and inpatient nephrology ward and consult services.
- 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%
  3. Restructured program to enhance patient experience and QI outcomes
- Site investigator for 3 multicenter trials (CONNECT, ACHIEVE, PDOPPS)
- Promoted from Assistant to Associate Professor in first contract cycle, July 2018

**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
- Organizer and presenter, Ultrasound training course for Hemodialysis Catheter insertion, and AV Fistula evaluation

**POST-GRADUATE EDUCATION**

**Clinical Investigator Program, Western University**

*July 2012-June 2015*

- Completed Masters in Medical Biophysics, studying the effect of sodium gradients on clinical outcomes in hemodialysis patients.

**Nephrology Subspecialty Clinical Fellowship, Western University**

*July 2010-June 2012*

- Creator and course advisor or "Physicians as Leaders": Developed curriculum, presented lectures, recruited guest speakers.
- Published book Critical References Nephrology, summarizing most essential trials in 62 clinical nephrology topics. Updated 2016.
- Chief Nephrology Fellow: Developed 2 year academic half-day curriculum, renal physiology course, lecture evaluation system.

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

*July 2007 - June 2010*

**CHARITABLE ORGANIZATION EMPLOYMENT**

**Keys of Health Fellowship, Founder and President**

*June, 2018 to present*

- Identifies critically needed subspecialties in marginalized countries, to train in Canadian subspecialty training programs, to return to marginalized countries to serve as Keys to enhance health care systems.
- Interview, select, and organize resident physicians from marginalized countries to train in Canada, then return to marginalized country for capacity building
- Has trained 17 physicians from marginalized regions
- <http://keysofhealth.ca>, Registered Charity Number 821896875RR001
- Supported by Global Affairs Canada through OCIC



## **CLINICAL AWARDS**

Kingston “Exceptional Healer Award” (for top clinician)- finalist	2019
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
Kingston “Exceptional Healer Award” (for top clinician)- finalist	2018
Top senior resident, Rockyview Hospital	July 2008 - June 2009
Model of Professionalism, University of Calgary Post-graduate medical program	2009
“Most likely to cover call” award	2009

## **COMMITTEE SERVICE**

ORN Home Dialysis Research Committee	Jan, 2018 to present
Association of Palestinian Canadian Physicians (Creator and Head)	Jan, 2018 to Dec, 2019
ORN 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
MOH-LTC Home Therapies Panel	July, 2017-Dec 2018

### **Journal Review**

Since 2018, 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.

### **Publications (last 5 years only)**

(in preparation/review)

Thomson B, Holden R. The Hemodialysis Patient with a Mechanical Heart Valve: A Scoping Review and Review of Evidence for Anticoagulation Management. To be submitted to: Nephrology Dialysis Transplantation

Thomson B, Taylor D. Transition to Practice Curriculum: A Systematic Review and National Survey. To be submitted to: Postgraduate Medicine.

(published)

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.

6. 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.
7. Thomson BKA. Should Canadian medical schools have trainees funded by Saudi Arabia? *CMAJ.* 2018;190(50):E1485.
8. 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.
9. 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).
10. 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.
11. 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).
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.