

Katie Marie Sullivan CV

PERSONAL INFORMATION:-

Name:- Katie Marie Sullivan
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I am a Paediatric Nephrologist who is passionate about improving the health of children through excellent clinical care and facilitating discoveries through translational research.

EDUCATION AND TRAINING

July 2025-July 2026 Pediatric transplant fellowship at Lurie Childrens Hospital
August 2023- July 2025 Pediatric Nephrologist and Assistant Professor at Medical College of Wisconsin, Childrens Wisconsin.
August 2022- August 2023: Pediatrician and Pediatric Nephrologist in Timmins Ontario. Assistant Professor at Northern Ontario School of Medicine
August 2019-June 2022:- Research Fellowship[at the University of Pennsylvania
July 2020-June 2022:- Pediatric Scientist Development Program (PSDP) fellow
Masters in Translational Research, University of Pennsylvania 2022
July 2017- June 2019:- Nephrology Fellowship at the Hospital for Sick Children, Toronto, Canada
July 2014 July 2017 Paediatric Resident at the Hospital for Sick Children, Toronto, Ontario
Feb 2014-May 2014 Volunteer Researcher at Melbourne Children's Hospital
Aug 2013-Feb 2014: Locum Position in Neonatology, University Hospital of South Manchester

2011-2013:- Academic Foundation Doctor West Midlands Deanery.

2005-2011:- **University of Edinburgh MBChB (Graduated in the top 25%).**
BMed Sci (Pharmacology) 2:1
Merits awarded in Gastrointestinal Medicine, Geriatric Medicine and Psychiatry

1998- 2005:- Upton Hall School FCJ, Upton, Wirral, Merseyside.

- 4 A Levels: Biology, Chemistry, German and Physics; all grade A
- 2 Advanced Extensions; Biology and German.
- 10 GCSEs; all at grade A* .

EXAMINATIONS COMPLETED

ABP General Pediatrics (2023)

RCPSC Specialist Pediatrics (June 2018)
RCPSC Specialist Pediatric Nephrology (Sept 2019)

USMLE Step 1, 2CK, 2CS. (ECFMG certified in Dec 2013). Step 3 (Oct 2014)
Step 1 score 226, Step 2 CK score 259, Step 3 score 244
Canadian MCCEE, MCQEE1, MCQEE 2 (Oct 2015)
MRCPCH (Feb 2017)
MRCP part 1 (Feb 2014)

Licenses Held

-CPSO 104227 (Independent license)
-GMC 7132041

PUBLICATIONS

Kolligundla LP*, **Sullivan KM***, Mukhi D, Andrade-Silva M, Liu H, Guan Y, Gu X, Wu J, Doke T, Hirohama D, Guarnieri P, Hill J, Pullen SS, Kuo J, Inamoto M, Susztak K. *Glutathione-specific gamma-glutamylcyclotransferase 1 (CHAC1)* increases kidney disease risk by modulating ferroptosis. *Sci Transl Med*. 2025 Apr 23;17(795):eadn3079. doi: 10.1126/scitranslmed.adn3079. Epub 2025 Apr 23. PMID: 40267214.

Sullivan KM, Kriegel AJ. Growth hormone in pediatric chronic kidney disease: more than just height. *Pediatr Nephrol*. 2024 Nov;39(11):3167-3175. doi: 10.1007/s00467-024-06330-8. Epub 2024 Apr 12. PMID: 38607423.

Sullivan KM, Susztak K. Unravelling the complex genetics of common kidney diseases: from variants to mechanisms. *Nat Rev Nephrol*. 2020 Nov;16(11):628-640. doi: 10.1038/s41581-020-0298-1. Epub 2020 Jun 8

Amin Abedini, Yuan O. Zhu, Shatakshee Chatterjee, Gabor Halasz, Kishor Devalaraja-Narashimha, Rojesh Shrestha, Michael Balzer, Jihwan Park, Tong Zhou, Ziyuan Ma, **Katie Marie Sullivan**, Hailong Hu, Xin Sheng, Hongbo Liu, Yi Wei, Carine M. Boustany-Kari, Uptal Patel, Salem Almaani, Matthew Palmer, Raymond Townsend, Shira Blady, Jonathan Hogan, Lori Morton, and Katalin Susztak, The TRIDENT Study Investigators. Urinary Single-Cell Profiling Captures the Cellular Diversity of the Kidney. *JASN* 32: ccc-ccc, 2021. doi: <https://doi.org/10.1681/ASN.2020050757>

Palmer MB, Abedini A, Jackson C, Blady S, Chatterjee S, **Sullivan KM**, Townsend RR, Brodbeck J, Almaani S, Srivastava A, Avasare R, Ross MJ, Mottl AK, Argyropoulos C, Hogan J, Susztak K. The Role of Glomerular Epithelial Injury in Kidney Function Decline in Patients With Diabetic Kidney Disease in the TRIDENT Cohort. *Kidney Int Rep*. 2021 Feb 3;6(4):1066-1080. doi: 10.1016/j.ekir.2021.01.025. PMID: 33912757; PMCID: PMC8071659.

Semenchuk J, **Sullivan K**, Moineddin R, Mahmud F, Dart A, Wicklow B, Xiao F, Medeiros T, Scholey J, Burger D. Urinary interleukin-9 in youth with type 1 diabetes mellitus. *Acta Diabetol*. 2022 Apr 20. doi: 10.1007/s00592-022-01873-4. Epub ahead of print. PMID: 35445345

Sullivan KM, Scholey J, Moineddin R, Sochett E, Wicklow B, Elia Y, Xiao F, Medeiros T, Sadi P, Burger D, Mahmud FH, Dart AB. Urinary podocyte-derived microparticles in youth with type 1 and type 2 diabetes.

Diabetologia. 2021 Feb;64(2):469-475. doi: 10.1007/s00125-020-05297-z. Epub 2020 Oct 10. PMID: 33037887

Sullivan K, Chami R, Pearl R. Lymphadenopathy, splenomegaly, intermittent neutropenia, and acute kidney injury: Questions. *Pediatr Nephrol*. 2020 Jan;35(1):67. doi: 10.1007/s00467-019-04321-8. Epub 2019 Aug 29. PMID: 31468144.

Sullivan K, Chami R, Pearl R. Lymphadenopathy, splenomegaly, intermittent neutropenia, and acute kidney injury: Answers. *Pediatr Nephrol*. 2020 Jan;35(1):69-71. doi: 10.1007/s00467-019-04322-7. Epub 2019 Aug 29. PMID: 31468145.

Alexander N, **Sullivan K**. Shaikh F, Irwin MS. Characteristics and management of ganglioneuroma and ganglioneuroblastoma-intermixed in children and adolescents. *Pediatr Blood Cancer* 2018 May 65 (5)

Brunton PJ, **Sullivan KM**, Kerrigan D, Russell J, Seckl JR, Drake AJ. Sex specific effects on prenatal stress on glucose homeostasis and peripheral metabolism in rats. *J Endocrinol*. 2013

Kipari T, Hadoke PW, Iqbal J, Man TY, Miller E, Coutinho AE, Zhang Z, **Sullivan KM**, Mitic T, Livingstone DE, Schrecker C, Samuel K, White CI, Bouhleb MA, Chinetti-Gbaguidi G, Staels B, Andrew R, Walker BR, Savill JS, Chapman KE, Seckl JR. 11 β -hydroxysteroid dehydrogenase type 1 deficiency in bone marrow-derived cells reduces atherosclerosis. *FASEB J* 2013.

Shipman KE, Jawad M, **Sullivan KM**, Ford C, Gama R, "Effect of Chronic Kidney Disease on A1C in Individuals Being Screened for Diabetes" *Primary Care Diabetes*. 2015 Apr;9(2):142-6.

Shipman KE, Jawad M, **Sullivan KM**, Ford C, Gama R. Ethnic/Racial determinants of glycemic markers in a UK sample. *Acta Diabetol* 2015 Aug 52(4) 687-692

Shipman KE, Jawad M, **Sullivan KM**, Ford C, Gama R, The glycation gap and estimated glomerular filtration rate in individuals without diabetes mellitus. *Clin Chem* 2014 Oct;60(10):1346-7.

Shipman KE, Jawad M, **Sullivan KM**, Ford C, Gama R. HbA1c is a reliable test for Type 2 diabetes in Primary Care irrespective of Chronic Kidney Disease. *BMJ* 2014 June18;348 g3780

POSTER AND ORAL PRESENTATIONS:-

Sullivan KM, Guan Y, Gu X, Doke T, Sheng X, Guarnieri P, Hill J, Pullen S, Kuo J, Susztak K Glutathione Specific Gamma-Glutamylcyclotransferase 1 (CHAC-1) is a Chronic Kidney Disease Risk Gene. Poster Presentation at ASN 2021.

Sullivan KM, Qiu CX, Liu HI, Hanson R, Nelson R and Susztak K Cytosine Methylation changes in early Diabetic Kidney Disease (DKD) in a Pima Indian Cohort. Poster Presentation at ASN 2020

Sullivan KM, Scholey J, Moineddin R, Sochett E, Wicklow B, Elia Y, Xiao F, Mederios T, Sadi P, Burger D, Mahmud FH, Dart AB. Urinary podocyte-derived microparticles in youth with type 1 and type 2 diabetes. Poster Presentation at ASN 2019

Multicentre pilot study looking at assessment of sleep and physical activity levels in children with chronic kidney disease. Poster Presentation at PAS and German Pediatric Nephrology Association. (March/April 2018)

Impact of Hemodiafiltration on nutritional markers in children receiving chronic renal replacement therapy. Oral Presentation at the Annual Dialysis Conference, Orlando, Florida (March 2017)

Genetic Diversity Epstein-Barr Virus Latent Gene EBNA-1 Among Transplant Patients and Patients With Infectious Mononucleosis" Presented at the American Transplant Conference May 2015 (Poster)

Prevalence and Effect of CKD on HbA1c in the Diagnosis of Type 2 Diabetes Mellitus. Presented at the The Association for Biochemistry and Laboratory Medicine West Midlands Regional Meeting (poster) March 2014. Also presented at the Joint Meeting of the Association of British Clinical Diabetologists and the Renal Association (oral presentation and poster) Feb 2014.

'I know one thing we're better together.'" Multi-disciplinary care improves glycaemic control in people with Cystic Fibrosis Related Diabetes Mellitus (CFRD). Presented at the Diabetes UK National Conference March 2013 (Oral Presentation)

'Dental Care for Children with Cystic Fibrosis' Presented at the West Midlands Regional Conference (oral presentation) and at the RCPCH National Conference (poster) in June 2013.

'Prescribing in Community Acquired Pneumonia' Presented at the International Academic and Research Conference, Manchester, UK August 2012 (poster)

'Point of Care Testing for Bilirubin' Presented at the Association for Clinical Biochemistry Meeting in Liverpool in 2012 (Poster). The abstract was published in Annals of Clinical Biochemistry, May 2012, Volume 49, Supplement 1 p44, ISSN 0004-5632

COMMITTEE INVOLVEMENT

2014-2016 Member of the Residents Advocacy Committee- Lead for the Parent Night Section

2011-2012 Member of the Foundation Year one committee

2010-2011 Founder and President of Edinburgh University Paediatric Society

2009-2011 Fund-raiser for 'Medaid' a student run charity which sends spare medical resources to hospitals

2007-2008:- Class Representative, Pharmacology Honours, Vice President of the Medical Students council and Group leader of Children's Holiday Venture, an Edinburgh based student run charity.

TEACHING ACTIVITIES

December 2023:- Pediatric Hypertension Talk at Resident Grand Rounds MCW

While on my research fellowship I presented quarterly with progress updates and journal clubs.

July 2021: Taught Professional development series on setting expectations and conflict management for Undergraduate Students at the University of Pennsylvania.

September 2018:- Single Cell (sc) RNA sequencing and the kidney

September 2018:- Paediatric Nephrology, the Good, the Bad and the Ugly

February 2018:- Journal club presentation_“Chronic Kidney Disease, now an Adult Problem too.”

January 2017:- Case conference Anti-GBM disease

November 2017:- Journal club presentation APOL1 and the kidney

Feb 2016:- Assisted my supervisor (Dr Linda Bakovic) in running simulation sessions in Paediatric emergencies for Family Medicine Residents at Thunder Bay Regional Sciences Centre.

2011-2012 :- While I was a Foundation Year One doctor I ran a number of interactive cases on Acute Medical Emergencies for the final year medical students at the University Hospital of North Staffordshire

Volunteer Activities

January 2016-2017 Volunteer in the PEDLER scheme for University of Toronto Medical Students.

September 2011- Aug 2013:- Leader for a local brownie unit

OTHER KEY ACHIEVEMENTS

- Completed the Toronto Marathon in October 2014.
- Completed the London Marathon in April 2012 raising £900 for St Johns Ambulance
- Grade 7 in Piano Performance and a merit in Grade 5 Theory of Music.
- Gold Duke of Edinburgh Award Holder
- In Aug 2004 won a scholarship offered by the German Government ,which allowed me to spend one month studying in Germany.

REFERENCES:-

- (1) Dr Damien Noone, Programme Director. Hospital for Sick Children, 555 University Avenue, Toronto, M5G 1X8
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- (2) Dr Michael Weinstein, Hospital for Sick Children, 555 University Avenue, Toronto, M5G 1X8
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- (3)Dr Beje Thomas, Interim head of Pediatric Transplant, Medical College of Wisconsin
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- (4)Dr Priya Verghese, Division Head Lurie Childrens, Northwestern University Chicago
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