

## Katherine MacRae Dell, MD



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### **CURRENT POSITION:**

**Associate Professor of Pediatrics**  
**Chief, Division of Pediatric Nephrology**

### **ACADEMIC AND HOSPITAL APPOINTMENTS:**

1998-2001 Instructor, Department of Pediatrics, Case Western Reserve University, Cleveland, OH  
1998-present Attending Pediatric Nephrologist, UH Rainbow Babies & Children's Hospital, University Hospitals Case Medical Center, Cleveland, OH  
2001-2008 Assistant Professor of Pediatrics, Case Western Reserve University, Cleveland, OH  
2007-present Staff Scientist, Department of Research, MetroHealth Medical Center, Cleveland, OH  
2008-present Associate Professor of Pediatrics, Case Western Reserve University, Cleveland, OH

### **GRANT AWARDS:**

NIH/NIDDK 2/1/11-1/31/16  
R01-DK085099  
MRI Imaging Biomarkers of ARPKD Kidney and Liver Disease  
PI (s): Dr. Katherine MacRae Dell, Dr. Chris Flask

Case Western Reserve University/Cleveland Clinic CTSC 6/1/10-5/31/11  
Annual Pilot Grant  
Development and Validation of Molecular Diffusion MRI as a Biomarker for Diabetic Nephropathy  
PI: Dr. Katherine MacRae Dell

NIH/NIDDK 10/1/03-9/30/12  
Chronic Kidney Disease In Children Prospective Cohort Study (CKiD)  
PI: Dr. Susan Furth, Role: Local PI

NIH/CWRU CTSA

10/1/09-5/31/11

Effect of body mass index (BMI) on exposure-response relationships to lisinopril in children.

Co-PIs: Dr. Beth A. Vogt, Dr. Katherine MacRae Dell

AMGEN

8/1/08-11/1/12

A multicenter, double-blind, randomized study evaluating de novo weekly and once every 2 week darbopoeitin alfa dosing for the correction of anemia in pediatric subjects with chronic kidney disease receiving and not receiving dialysis.

PI: Dr. Brad Warady, Role: Local PI

Takeda

A comparative single-dose pharmacokinetic and safety study of TAK-491 between infants, children, and adolescents with hypertension and healthy adults.

Local PI: Dr. Beth A. Vogt, Role: Local Co-I

Otsuka Pharmaceuticals

5/2007-10/2011

A Phase 3, Multi-Center, Double Blind, Placebo Controlled Parallel-Arm To Determine Long-Term Safety And Efficacy Of Oral Tolvaptan Tablet Regimens In Adult Subjects With Autosomal Dominant Polycystic Kidney Disease

Local PI: Dr. Bruce Berger, Role: Local Co-I

## PUBLICATIONS:

1. **Dell KM**, Friday JF. A 26 month-old girl with cor pulmonale and obstructive sleep apnea. *Curr Opin Pediatr* 1995;7:282-288.
2. **Dell KM**, Schulman SL. Rhabdomyolysis and acute renal failure in a child with influenza A. *Pediatr Nephrol* 1997;11:363-365.
3. **Dell KM**, Guay-Woodford LM. Inherited tubular transport disorders. *Semin Nephrol* 1999;19:364-373.
4. Avner ED, Woychik RP **Dell KM**, Sweeney WE. Cellular pathophysiology of cystic kidney disease: insight into future therapies. *Int J Dev Biol* 1999;43:457-461.
5. **Dell KM**, Kaplan BS. Hypertension with lower extremity traumatic amputation. *Clin Pediatr* 2000;39:417-419.
6. **Dell KM**, Hoffman BB, Leonard MB, Ziyadeh FN, Schulman SL. Increased urinary transforming growth factor- $\beta_1$  (TGF- $\beta_1$ ) excretion in children with posterior urethral valves. *Urology* 2000;56:311-314.
7. **Dell KM**, Li Y-X, Peng M, Neilson EG, Gasser DL. Localization of the mouse *kidney disease (kd)* gene to a YAC/BAC contig on chromosome 10. *Mammalian Genome* 2000; 11:967-971.
8. Sweeney WE Jr, Kusner L, Carlin CR, Chang S, Futey L, Cotton CU, **Dell KM**, Avner ED. Phenotypic analysis of conditionally immortalized cells isolated from the BPK model of ARPKD. *Am J Physiol* 2001;281:C1695-C1705.
9. Davis ID, **Dell KM**, Sweeney WE, Avner ED. Can progression of autosomal dominant or autosomal recessive polycystic kidney disease be prevented? *Sem Nephrol* 2001; 21:430-440.
10. **Dell KM**, Nemo R, Sweeney WE Jr, Levin JI, Frost P, Avner ED. A novel inhibitor of TNF-alpha converting enzyme ameliorates polycystic kidney disease. *Kidney Int* 2001; 60:1240-1248.
11. Nakanishi K, Sweeney WE, **Dell KM**, Cotton CU, Avner ED. Role of CFTR in autosomal recessive polycystic kidney disease. *J Am Soc Nephrol* 2001; 12:719-725.
12. Wisanuyotin S, **Dell KM**, Vogt BA, O'Riordan MA, Avner ED, Davis ID. Complications of peritoneal dialysis in children with Eagle-Barrett Syndrome. *Pediatr Nephrol* 2003;18:159-163.
13. Bayazit AK, Vogt BA, **Dell KM**, Davis ID, Noyan A, Anarat A, Avner ED, Erhard P, Weiss MF. Effect of the peritoneal dialysis prescription on pentosidine in children. *Pediatr Nephrol*. 2003;18:1049-1054.

14. **Dell KM**, Nemo R, Sweeney WE Jr, Avner ED. EGF-related growth factors in the pathogenesis of murine ARPKD. *Kidney Int* 2004; 65:2018-2029.
15. Nemo R, Murcia NS, **Dell KM**. Transforming Growth Factor Alpha (TGF- $\alpha$ ) and Other Targets of Tumor Necrosis Factor-Alpha Converting Enzyme (TACE) in Murine Polycystic Kidney Disease. *Pediatr Res* 2005;57:732-737.
16. Palmer JS, Donaher ER, O'Riordan MA, **Dell KM**. Diagnosis of pediatric urolithiasis: role of ultrasonography and CT scan. *J Urol* 2005; 174:1413-1416.
17. Greenbaum LA, Hidalgo G, Chand D, Chiang M, **Dell KM**, Kump T, Peschansky L, Smith HK, Boyle M, Kopf M, Metz LC, Mahan JD. Obstacles to Prescribing Growth Hormone in Children with Chronic Kidney Disease. *Pediatr Nephrol* 2008;23(9):1531-5.
18. **Dell KM**, Avner ED Polycystic kidney disease, Autosomal recessive. In: Pagon RA, Bird TC, Dolan CR, Stephens K, editors. *GeneReviews* [Internet]. Seattle (WA): University of Washington, Seattle; 1993-.2001 Jul 19 [updated 2009 Jul 14].
19. Goto M, Hoxha N, Osman R, Wen J, Wells R, **Dell KM**. Renin-Angiotensin System (RAS) Activation in Congenital Hepatic Fibrosis in the PCK Rat Model of Autosomal Recessive Polycystic Kidney Disease (ARPKD). *J Pediatr Gastroenterol Nutr* 2010;50:639-44.
20. Goto M, Hoxha N, **Dell KM**. The renin-angiotensin system and hypertension in autosomal recessive polycystic kidney disease. *Pediatr Nephrology* 2010;25:2449-57.
21. Shah T, Lu L, **Dell KM**, Pagel MD, Griswold MA, Flask CA, CEST-FISP: A Novel Technique for Rapid Chemical Exchange Saturation Transfer (CEST) MRI at 7T. *Magn Reson Med* 2011;65:432-7.