

David Chalmers, M.D.

Program Director, Maine Medical Center Urology Residency

Peer-Reviewed Publications/Journal Articles/Chapters/Textbooks

Rove KO, Brockel MA, Saltzman AF, Dönmez MI, Brodie KE, **Chalmers DJ**, Caldwell BT, Vemulakonda VM, Wilcox DT. Prospective study of enhanced recovery after surgery protocol in children undergoing reconstructive operations. *J Pediatr Urol*. 2018 Jun;14(3):252.e1-252.e9. doi: 10.1016/j.jpuro.2018.01.001. Epub 2018 Feb 2.

Maccini MA, **Chalmers DJ**, Vemulakonda VM, Campbell JB. Incidence and risk factors for positive urine culture at the time of pediatric urologic surgery. *Int Urol Nephrol*. 2018 Jun;50(6):1017-1020. doi: 10.1007/s11255-018-1884-z. Epub 2018 May 21.

Chalmers D. Editorial response to JPUIROL-D-15-00312: Study of clitoral hood anatomy in the pediatric population. *J Pediatr Urol*. 2016 Jun;12(3):178. doi: 10.1016/j.jpuro.2016.01.006. Epub 2016 Feb 18.

Chalmers DJ, Meyers ML, Brodie KE, Palmer C, Campbell JB. Inter-rater reliability of the APD, SFU and UTD grading systems in fetal sonography and MRI. *J Pediatr Urol*. 2016 Oct;12(5):305.e1-305.e5.

Chalmers DJ, Serrell E. Hernia and Hydrocele. In: *Consent in Pediatric Urology*. P Godbole, DT Wilcox MA Koyle (eds.). Springer International Publishing, Switzerland 2016. October

Chalmers DJ, Vemulakonda VM. Pediatric Urology for the General Surgeon *Surg Clin North Am*. 2016 Jun;96(3):545-65. doi: 10.1016/j.suc.2016.02.010

Chalmers DJ, Rove KO, Wiedel CA, Tong S, Siparsky GL, Wilcox DT. Clean intermittent catheterization as an initial management strategy provides for adequate preservation of renal function in newborns with persistent cloaca. *J Pediatr Urol*. 2015 Aug;11(4):211.e1-4.

Chalmers DJ, Bielsky A, Wild TT, Siparsky GL, Wilcox DT. Continuous local anesthetic infusion for children with spina bifida undergoing major reconstruction of the lower urinary tract. *J Pediatr Urol*. 2015 Apr;11(2):72.e1-5.

Pitts D, **Chalmers D**, Jumper B. Symptomatic infundibulopelvic dysgenesis in an adolescent. *Case Rep Urol*. 2015; 2015:307319.

Chalmers DJ, Siomos VJ, Gilsdorf DJ, Torok MR, Vemulakonda VM. Factors associated with surgical intervention in children with high-grade congenital hydronephrosis. *J Clin Urol* 2014, December 11. [Epub ahead of print]

Chalmers DJ, Siparsky GL, Wiedel CA, Wilcox DT. Distal hypospadias repair in infants without a postoperative stent. *Pediatr Surg Int* 2014;31(3):287-90.

Smith PP, **Chalmers DJ**, Feinn RS. Does defective volume sensation contribute to detrusor underactivity? *Neurourol Urodyn*. 2014 Sep 14

Chalmers DJ, Deakyne SJ, Payan ML, Torok MR, Kahn MG, Vemulakonda VM. Feasibility of Integrating Research Data Collection into Routine Clinical Practice using the Electronic Health Record. *J Urol*. 2014 Apr 30.

Wild TT, **Chalmers DJ**, Bielsky A, Wilcox DT. How do I do it: Continuous local anesthetic infusion for children with spinal dysraphism undergoing major reconstruction of the lower urinary tract. *J Pediatr Urol*. 2014 Apr;10(2):394-5

Chalmers D, Wiedel CA, Siparsky GL, Campbell JB, Wilcox DT. Discovery of Hypospadias during Newborn Circumcision Should Not Preclude Completion of the Procedure. *J Pediatr*. 2014;164(5):1171-4.

Clements MB, **Chalmers DJ**, Meyers ML, Vemulakonda VM. Prenatal Diagnosis of Cloacal Exstrophy: A Case Report and Review of the Literature. *Urology* 2014;83(5):1162-4.

Chalmers DJ, Vemulakonda VM. Genitourinary Trauma. In: Pediatric Urology Book. DT Wilcox, PP Godbole, C Cooper (eds.), www.pediatricurologybook.com, 2014.

Chalmers DJ, Wilcox DT. Laparoscopic-assisted Bladder Augmentation. In: Pediatric Urology 2nd Edition. DT Wilcox, PP Godbole and MA Koyle (eds.), Surgical Complications and Management. Springer-Verlag, London, 2014.

Chalmers DJ, Campbell JB. Bladder Diverticulectomy. In: Pediatric Urology 2nd Edition. DT Wilcox, PP Godbole and MA Koyle (eds.), Surgical Complications and Management. Springer-Verlag, London, 2014.

Chalmers DJ, Campbell JB. Excision of Prostatic Utricle. In: Pediatric Urology 2nd Edition. DT Wilcox, PP Godbole and MA Koyle (eds.), Surgical Complications and Management. Springer-Verlag, London, 2014.

Chalmers D, Scarpato K, Staff I, Champagne A, Tortora J, Wagner JR, Kesler SS. Does Heparin Prophylaxis Reduce the Risk of Venous Thromboembolism in Patients Undergoing Robotic Prostatectomy? J Endourol. 2013;27(6):800-3.

Chalmers DJ, Vemulakonda VM. Prenatal Hydroureter: Current Treatment Dilemmas. AUA News 2013;18(1):1.

Chalmers D, O'Sullivan D, Meyer E. The Effect of Vitamin D Supplementation on Plasma and Urine Calcium in a Population of Patients with Stone Disease. J Urol 2012;187(4):Suppl e927.

Chalmers D, Ferrer FA, Kim C, Makari JH. Vesicoamniotic Shunt Migration in a Fetus with a Posterior Urethral Valve. Dialogues in Pediatric Urology 2012; 33(2):5.

Chalmers D, Herbst K, Kim C. Robotic-Assisted Laparoscopic Extravesical Ureteral Reimplantation: An Initial Experience. J Pediatr Urol 2012;8(3):268-71.

Current Professional Activities/Presentations

Chalmers DJ. "Primary Obstructing Megaureter, Secondary Pseudohypoaldosteronism." Pediatric Clinicopathology Conference, Aug 17, 2017.

Chalmers DJ. Pediatric Urology Vesicoureteral Reflux Procedure Specific Variables. Presented at the American College of Surgeons Quality and Safety Conference, July 24, 2017. New York, New York.

Chalmers DJ, Meyers M, Brodie K, Palmer C, Campbell J. Interrater reliability of fetal sonography vs MRI. S19-5 Presented at the 26th Congress of the European Society for Paediatric Urology, 2015 Oct 16, Prague, Czech Republic.

Chalmers DJ, Serrell E. Hernia and Hydrocele. In: Consent in Pediatric Urology. P Godbole, DT Wilcox MA Koyle (eds.). Springer International Publishing, Switzerland 2016. (October)

Chalmers DJ, Serrell E. Genital Trauma. In: Consent in Pediatric Urology. P Godbole, DT Wilcox MA Koyle (eds.). Springer International Publishing, Switzerland 2016.

Rove K, Brodie K, **Chalmers D**, Brockel M, Maccini M, Vemulakonda V, Wilcox D, Prospective, Phase I/II Study of Enhanced Recovery After Surgery Protocol in Children Undergoing Reconstructive Operations. National AUA Meeting May 7, 2016 San Diego, CA

Maccini MA, **Chalmers D**, Campbell JB. Incidence and risk factors for positive urine culture at the time of pediatric urologic surgery. MP54-08 presented at the 2015 National AUA Meeting, May 16, 2015, New Orleans, LA.

Crawly D, **Chalmers D**, O'Sullivan D, Samson, W, Myer E. Seasonal variation of 25-hydroxycholecalciferol and serum and urine electrolytes in a population of patients with stone disease. MP33-14 presented at the 2015 National AUA Meeting, May 16, 2015, New Orleans, LA.

Chalmers DJ, Rove KO, Wiedel CA, Tong S, Siparsky GL, Wilcox DT. Clean-Intermittent Catheterization as an Initial Management Strategy Provides for Adequate Preservation of Renal Function in Patients with Persistent Cloaca. Poster #4 at the Society for Pediatric Urology 2014 Fall Congress, October 24, Miami Beach, FL.

Chalmers DJ, Siomos AK, Bronsert M, Vemulakonda VM. Differences in Patient Comprehension and Communication Effectiveness Using In-Person and Telephonic Medical Interpretation Services. Poster #23 at the Society for Pediatric Urology 2014 Fall Congress, October 24, Miami Beach, FL.

Chalmers DJ, Rove KO, Wiedel CA, Tong S, Siparsky GL, Wilcox DT. Clean-Intermittent Catheterization as an Initial Management Strategy Provides for Adequate Preservation of Renal Function in Patients with Persistent Cloaca. Abstract#1 presented at the 93rd Annual South-Central Section of the AUA, October 8, Rancho Mirage, CA

Grantham EC, **Chalmers DJ**. Not advocated: the myth of punishment for nocturnal enuresis. Abstract #FRI-13 presented at the 2014 National AUA meeting, May, 2014, Orlando, FL.

Chalmers DJ, Bielsky A, Wild TT, Siparsky GL, Wilcox DT. Continuous Local Anesthetic Infusion for Children with Spina Bifida Undergoing Major Reconstruction of the Lower Urinary Tract. Abstract #MP40 presented at the Society for Pediatric Urology 62nd Annual Meeting, May 17, 2014, Orlando, FL.

Chalmers DJ, Siparsky G, Vemulakonda VM, Wilcox DT. Epic Electronic Medical Record as a Prospective Data Collection Tool for Hypospadias Research. Poster Presentation at the 50th Biannual Meeting of the Society for Pediatric Urology, Sept 2013, Las Vegas, NV.

Clements MB, **Chalmers DJ**, Meyers ML, Vemulakonda VM. Diagnosis of Cloacal Exstrophy by Fetal MRI. . Presented at the 50th Biannual Meeting of the Society for Fetal Urology, Sept 2013, Las Vegas, NV.

Chalmers DJ, Dannull KA, Wilcox DT. Diagnosis of Posterior Cloaca by Fetal MRI. Presented at the 50th Biannual Meeting of the Society for Fetal Urology, Sept 2013, Las Vegas, NV.

Chalmers DJ, Siomos V, Siparsky G, Wilcox DT. Complications and Reoperative Rate of Hypospadias Repair by Location. Presented at the 92nd Annual Meeting of the South Central Section of the AUA: Podium Presentation #75, Sept 2013, Chicago, IL.

Chalmers DJ, Rove KO, Siparsky G, Vemulakonda VM, Wilcox DT. Epic Electronic Medical Record as a Prospective Data Collection Tool for Hypospadias Research. Presented at the 92nd Annual Meeting of the South Central Section of the AUA: Poster #24, Sept 2013, Chicago, IL.

Vemulakonda VM, **Chalmers DJ**, Wilcox DT, Libby AM. The Association between Surgery and Antibiotic Prophylaxis in Children with Vesicoureteral Reflux. Abstract #658 presented at the 2013 National AUA/SPU meeting, May 2013, San Diego, CA.

Chalmers DJ. "Structural Abnormalities Leading to Incontinence." 2012 Children's Hospital Colorado Pediatric Surgical Care Conference, Denver, CO, September 2012.

Kiziloz H, Finnegan K, **Chalmers D**, Wagner R, Meraney A. Oncologic Outcomes and Complications of Initial Experience of Robot Assisted Laparoscopic Radical Cystectomy. Presented at the 81st New England AUA, September 2012, Boston, MA.

Chalmers DJ. "Normal and Abnormal Foreskin." 2012 Children's Hospital Colorado Pediatric Urological Care Conference, Denver, CO, July 2012

Chalmers DJ, O'Sullivan D, Meyer E. The Effect of Vitamin D Supplementation on Plasma and Urine Calcium in a Population of Patients with Stone Disease. Presented at the 2012 National AUA meeting, May 2012, Atlanta, GA.

Research

Current research areas:

- Antenatal hydronephrosis
- Spina bifida and neurogenic bladder
- Undescended testis

Appointments/Elections/Committees

Director of Medical Student, Urology Education, 2016-present

American Urological Association: member July, 2007- present

Society of Pediatric Urology: candidate member: April 2013- present

American Academy of Pediatrics: May 2013- present