

CURRICULUM VITAE AND BIBLIOGRAPHY

JASON K. AU, MD

PRESENT TITLE: Assistant Professor
McGovern Medical School at UTHealth

WORK ADDRESS: Department of Pediatric Surgery
Division of Pediatric Urology
6431 Fannin Street, MSB 5.242
Houston, TX 77030

UNDERGRADUATE EDUCATION:

B.S. Biology, 2005 (cum laude)
University of Miami
Miami, FL

GRADUATE EDUCATION:

Doctor of Medicine, 2008
Miller School of Medicine
University of Miami
Miami, FL
Honors: Alpha Omega Alpha Honor Society

POSTGRADUATE TRAINING:

Fellowship Training Program, Cardiovascular Signaling, April-August 2005
UM Department of Molecular and Cellular Pharmacology
National Institutes of Health (NIH)
Bethesda, MD

Internship, General Surgery, 2008-09
Baylor College of Medicine
Houston, TX

Residency, Urology, 2009-14
Baylor College of Medicine
Houston, TX

Chief Resident, Urology, 2013-14
Baylor College of Medicine
Houston, TX

Clinical Fellowship, Pediatric Urology, 2014-15
Texas Children's Hospital
Baylor College of Medicine
Houston, TX

Research Fellowship, Pediatric Urology, 2015-16
Texas Children's Hospital
Baylor College of Medicine
Houston, TX

Clinical Scientist Training Program, Certificate of added qualification, 2015-16
Baylor College of Medicine
Houston, TX

ACADEMIC & ADMINISTRATIVE APPOINTMENTS:

Assistant Professor, 8/2019
Department of Pediatric Surgery, Division of Pediatric Urology
McGovern Medical School at UTHealth
Houston, TX

Memorial Hermann Medical Group, 8/2016 - Present
Houston, TX

HOSPITAL APPOINTMENTS:

Memorial Hermann Texas Medical Center- Children's Memorial Hermann
Memorial Hermann Memorial City
Memorial Hermann Greater Heights
Memorial Hermann Southwest
Memorial Hermann The Woodlands
Staff Pediatric Urologist

Adjunct Faculty, 10/2016 – Present
Texas Children's Hospital
Houston, TX

LICENSURE:

Texas Medical License # Q7833, May 2016

CERTIFICATION:

American Board of Urology, 2019

HONORS AND AWARDS:

Dean's List, 2002-2004
President's Scholarship, 2002-2004
Alpha Omega Alpha Honor Society, 2007
Society of Fetal Urology "Most Innovative Case Presentation", 2015

PROFESSIONAL MEMBERSHIPS:

Alpha Omega Alpha, 2007-Present;
University of Miami Treasurer, 2007-2008
American Urological Association, 2008-Present
AUA- South Central Section, 2012-present
Society of Fetal Urology, 2014-Present
Society of Pediatric Urology, 2014-Present

CURRENT TEACHING RESPONSIBILITIES:

1. Au JK, Koh C, Lendvay T. "Cryptorchidism: Clinical Problem Solving Module"- American Urologic Association 2014
2. Member of Pediatric Trauma Committee- Texas Children's Hospital- 9/2014-Present
3. Department of Surgery Education Task Force- Fellow Representative- 7/2014-Present
4. Member of Surgical Outcomes Committee- Texas Children's Hospital- Division of Pediatric Urology- 10/2012- present

PAST GRANT SUPPORT:

Co-PI, Effect of Caudal and Penile Block on Hypospadias Repair Complications
Texas Children's Hospital Department of Surgery Seed Grant
5/2016 – 5/2017

PUBLICATIONS:

A. Refereed Original Articles in Journals:

1. Baek M, Silay MS, Au JK, Huang GO, Elizondo RA, Puttmann KT, Janzen NK, Seth A, Roth DR, Koh CJ. "Does the use of 5 mm instruments affect the outcomes of robot-assisted laparoscopic pyeloplasty in smaller working spaces? A comparative analysis of infants and older children." J Pediatr Urol. 2018 Jul 6. pii: S1477-5131(18)30337-1. doi: 10.1016/j.jpuro.2018.06.010. [Epub ahead of print] PMID: 30007500
2. Baek M, Silay MS, Au JK, Huang GO, Elizondo RA, Puttmann K, Janzen NK, Seth A, Roth DR, Koh CJ. "Quantifying the Additional Difficulty of Pediatric Robot- Assisted Laparoscopic Re-Do Pyeloplasty: A Comparison of Primary and Re-Do Procedures" J Laparoendosc Adv Surg Tech A. 2018 May;28(5):610-616. doi: 10.1089/lap.2016.0691. Epub 2018 Feb 6. PMID: 29406807
3. Haller, Au J, O'Neill M, Lamb DJ. "16p11.2 transcription factor MAZ is a dosesensitive regulator of genitourinary development." Proc Natl Acad Sci U S A. 2018 Feb 5. pii: 201716092. doi: 10.1073/pnas.1716092115. [Epub ahead of print] PMID: 29432158
4. Hebert SA, Swinford RD, Hall DR, Au JK, Bynon JS. "Special Considerations in Pediatric Kidney Transplantation." Adv Chronic Kidney Dis. 2017; 24 (6): 398-404. PMID: 29229171
5. Baek M, Silay MS, Au JK, Huang GO, Elizondo RA, Puttmann K, Janzen NK, Seth A, Roth DR, Koh CJ. "Quantifying the additional difficulty of pediatric robotassisted laparoscopic re-do pyeloplasty: a comparison of primary and redo procedures" Laparoendosc Adv Surg Tech A. 2018 Feb 6. doi: 10.1089/lap.2016.0691. PMID: 29406807
6. Coarfa C, Florentin D, Putluri N, Ding Y, Au J, He D, Ragheb A, Frolov A, Michailidis G, Lee M, Kadmon D, Miles B, Smith C, Ittmann M, Rowley D, Sreekumar A, Creighton CJ, Ayala G. "Influence of the Neural Microenvironment on Prostate

- Cancer." Prostate. 2017 Nov 13. doi: 10.1002/pros.23454. [Epub ahead of print] PMID: 29131367
7. Au JK, Graziano C, Elizondo R, Janzen N, Naik S, Seth A. "A Single Institution's Experience With Hemorrhagic Cystitis After Bone Marrow Transplantation." *Urology*. 2016 Oct 25. pii: S0090-4295(16)30748-8. doi: 10.1016/j.urology.2016.10.030. [Epub ahead of print] PMID: 27793653
 8. Ruderfer D, Au J, Seth A, Naik S, Bocchini C. "BK Virus Epidemiology, Risk Factors and Outcomes: A Retrospective Analysis of Hematopoietic Stem Cell Transplant Patients at Texas Children's Hospital." *Open Forum Infect Dis* (2016) 3 (suppl_1): 154. <https://doi.org/10.1093/ofid/ofw172.22>
 9. Au JK, Tan X, Sidani M, Seth A, Roth DR, Gonzales E, Gargollo P, Koh CJ, Smith III TG, Janzen N. "Imaging Characteristics Associated With Failure of Nonoperative Management in High-Grade Pediatric Blunt Renal Trauma." *J Pediatr Urol*. 2016 Apr 22. pii: S1477-5131(16)30020-1. doi: 10.1016/j.jpuro.2016.02.021. [Epub ahead of print] PMID: 27160977
 10. Huang GO, Elizondo Sáenz RA, Au JK, Gonzales ET, Gargollo PC. "Robotic Appendicovesicostomy Revision In a Pediatric Neobladder Patient." *J Pediatr Urol*. 2017 Apr;13(2):216. doi: 10.1016/j.jpuro.2016.12.001. Epub 2016 Dec 24. PMID: 2821583
 11. Huang G, Elizondo R, Au J, Gonzales E, Gargollo P "V10-03 Robotic Appendicovesicostomy Revision in a Pediatric Neobladder Patient." *Journal of Urology*. April 2016 Vol 195 Issue 4, Supplement, Page e946. DOI: <http://dx.doi.org/10.1016/j.juro.2016.02.158>
 12. Au JK, Graziano C, Elizondo R, Janzen N, Naik S, Seth A. MP 26-19: "A Single Institution's Experience With Hemorrhagic Cystitis After Bone Marrow Transplantation." *J Urol* Vol. 195, Issue 4, Supplement, e361.
 13. Baek M, Au JK, Koh CJ. V7-12: "Robotic Assisted Laparoscopic Pyeloureterostomy in Infants with Duplex Systems with Upper Pole Ureteral Obstruction: Variations in Double J Ureteral Stenting Techniques." *J Urol*, Vol. 195, Issue 4, e726.
 14. Baek M, Au J, Huang GO, Koh CJ. "Robotic Assisted Laparoscopic Pyeloureterostomy in Infants with Duplex Systems with Upper Pole Ureteral Obstruction: Variations in Double J Ureteral Stenting Techniques." *J Pediatr Urol*. 2017 Apr;13(2):219-220. doi: 10.1016/j.jpuro.2016.12.008. Epub 2017 Jan 19. PMID: 28153776
 15. Afsarlar, CE, Yilmaz E, Yilmaz A, Au JK, Stanasel I, Roth DR, Koh CJ, MP40-10: "Complete Blood Count Parameters As a Predictor of Testicular Survival Following Acute Testicular Torsion in Children." *J Urol*. Vol. 193, Issue 4, e466.
 16. Elizondo RA, Au JK, Cass DL, Olutoye OO, Roth DR, Gargollo PC, Koh CJ. "Urologic Considerations in the Separation of Conjoined Twins." *Urology*. 2016 Jun 28. pii: S0090-4295(16)30323-5. doi: 10.1016/j.urology.2016.06.029. [Epub ahead of print] 27369817
 17. Sidani M, Au JK, Elizondo R, Smith TG III, Roth DRR "Animal Bite of Genitalia in a Child: Rare case of Anterior Urethral Injury" *Pediatric Urology Case Reports*, [S.l.], v. 3, n. 4, p. 128-133, jun. 2016. ISSN 2148-2969. Available at:

<http://pediatricurologycasereports.com/ojs/index.php/pucr/article/view/165/89>
doi:<http://dx.doi.org/10.14534/PUCR.2016418818>.

18. Au, JK, Elizondo R, Roth DR "Surgeon Burnout Among Pediatric Urologists?" Urology Practice. May 2017. Vol 4, Issue 3, 264-268 DOI: <http://dx.doi.org/10.1016/j.urpr.2016.06.003>
19. Au JK, Florentin D, Ding Y, He D, Creighton CJ, Frolov A, Dakhova O, Zhang Y, Ayala GE. 313: "Influence of the Neural Microenvironment in Prostate Cancer." J Urol. Vol. 187, Issue 4, e127.
20. Ayala GE, Florentin D, Au JK, Ding Y, He D. Creighton CJ, Frolov A, Dakhova O. 1633: "Targeting the Neural Microenvironment in Prostate Cancer: A Neoadjuvant Botox Clinical Trial." J Urol. Vol. 187, Issue 4, e660.
21. Afsarlar, C, Ryan SL, Donel E, Baccam TH, Jones B, Chandwani B, Au J, Huang GO, Gonzales ET, Janzen N, Seth A, Roth DR, Koh CJ. "Standardized Process to Improve Patient Flow From ER to the Operating Room for Pediatric Patients with Testicular Torsion." J Pediatr Urol. 2016 May 15. pii: S1477-5131(16)30046-8. doi: 10.1016/j.jpuro.2016.04.019. [Epub ahead of print] PMID: 27270069
22. Elizondo RA, Au J, Gargollo P, Tu D. "Vaccum- Assisted Closure of a Vesicocutaneous Fistula in a Pediatric Patient After Bladder Cystoplasty" Urology 2016 Apr 4. pii: S0090-4295(16)30055-3. doi: 10.1016/j.urology.2016.04.001. [Epub ahead of print] PMID: 27058688
23. Stout T, Au JK, Hicks J, Gargollo PC. "A case of Bilateral Cystic Partially Differentiated Nephroblastoma Versus Cystic Wilm's Tumor: Highlighting a Diagnostic Dilemma" Urology. 2016 Feb 2. pii: S0090-4295(16)00081-9. doi: 10.1016/j.urology.2016.01.018. [Epub ahead of print] PMID: 26850814
24. Ruano R, Sananes N, Wilson C, Au JK, Koh CJ, Gargollo P, Shamshirsaz A, Espinoza J, Meyer N, Cass D, Olutoye O, Welty S, Roth DR, Braun MC, Belfort MA. "Fetal Lower Urinary Tract Obstruction- Standardized Multidisciplinary Prenatal Management based on Disease Severity." Ultrasound in Obstetrics and Gynecology. 2015 Dec 22. doi: 10.1002/uog.15844. PMID: 26690832
25. Ruano R, Adnan Safdar, Au JK, Koh CJ, Gargollo P, Shamshirsaz A, Espinoza J, Meyer N, Cass D, Olutoye O, Welty S, Roth DR, Belfort MA, Braun MC. "Defining and Predicting 'intrauterine fetal renal failure' in Congenital Lower Urinary Tract Obstruction." Pediatric Nephrology. 2015 Nov 2. PMID: 26525197
26. Wagenheim G, Au JK, Gargollo PC. "Medicinal Leech Therapy for Glans Penis Congestion after Primary Bladder Exstrophy-Epispadias Repair in an Infant: A Case Report." Urology. 2015 Oct 1. pii: S0090-4295(15)00889-4. doi: 10.1016/j.urology.2015.09.010. [Epub ahead of print] PMID: 26433079
27. Bird VG, Au JK, Sandman Y, De Los Santos R, Ayyathurai R, Shields JM. "Comparison of Different Extraction Sites Used During Laparoscopic Radical Nephrectomy" Journal of Urology 181:1565-1570, April 2009. PMID: 19233420
28. Beharrie A, Franc-Guimond J, Rodriguez MM, Au J, Zilleruelo G, Abitbol CL. "A Functional Immature Model of Chronic Partial Ureteral Obstruction." Kidney International 65: 115-1161, 2004. PMID: 15086454

B. Non Peer-Reviewed Papers:

1. Elizondo RA, Au JK, Puttmann K, Huang GO, Baek M, Zhang W, Zhu H, Orr A, Gonzales ET, Janzen N, Seth A, Roth DR, Tu D, Koh CJ. "Robotic Ureteral Reimplantation is Not Associated with Increased Costs for Families and Payers: A Single Institution Analysis of Hospital Charges and Outcomes." Pediatric Urology Fall Congress. Montreal Canada. Sept 8-10, 2017.
2. Baek M, Elizondo RA, Silay S, Au JK, Huang GO, Janzen N, Seth A, Roth, DR, Koh CJ. "Quantifying the additional difficulty of pediatric robot-assisted laparoscopic re-do pyeloplasty: a comparison of primary and redo procedures" North American Robotic Urology Symposium. Feb 17, 2017. Las Vegas, NV.
3. Au JK, Stanasel I, Khandge P, Krasnow R, Cass DL, Olutoye OO, Seth A, Janzen N, Gonzales ET, Roth DR, Koh CJ, Gargollo PC. "Urologic Considerations in the Separation of Conjoined Twins." Accepted by "SPU Dialogues in Pediatric Urology" Au JK, Elizondo R, Tu D. "A Single Institution Review of Non- Rhabdomyosarcoma Bladder Tumors." Fall Congress Pediatric Urology. Dallas, TX Sept 11, 2016.
4. Au JK, Elizondo R, Allum E, Baek M, Gonzales ET, Janzen N, Seth A, Koh CJ, Tu D. "A Single Institution Cost Analysis of Robotic Versus Open Ureteral Reimplantation." Accepted Poster at South Central Section AUA. October 1, 2016 Colorado Springs, CO.
5. Au JK, Elizondo R, Stout T, Tu D. "Correlating CMG Findings with Upper Tract Changes." Accepted Poster at South Central Section AUA. October 1, 2016 Colorado Springs, CO.
6. Au JK, Graziano C, Elizondo R, Janzen N, Naik S, Seth A. "A Single Institution's Experience With Hemorrhagic Cystitis After Bone Marrow Transplantation." Moderated poster presentation at American Urological Association May 7, 2016. San Diego, CA.
7. Stout T, Au JK, Orth RC, Gargollo PC, Tu, Duong. "Cystatin C as a marker of renal function and upper urinary tract changes in children with spina bifida" Moderated poster presentation at American Urological Association May 7, 2016. San Diego, CA.
8. Huang, G, Elizondo R, Au JK, Gonzales ET, Gargollo PC. "Robotic Appendicovesicostomy Revision in a Pediatric Neobladder Patient." Video Abstract Presented at Society of Pediatric Urology American Urological Association. May 9, 2016. San Diego, CA.
9. Au JK, Stout T, Tan X, Stanasel I, Roth D, Gonzales ET, Tu D, Seth A, Koh CJ, Gargollo PC, Naik-Mathuria B, Janzen N. "Modifying Current Indications for Imaging in Pediatric Blunt Renal Trauma" Poster Presentation at European Society for Pediatric Urology 26th Joint Congress. October 15 2015. Prague, Czech Republic.
10. Afsarlar, C, Donel E, Jones B, Chandwani B, Au J, Stanasel I, Gonzales ET, Janzen N, Gargollo P, Seth A, Roth DR, Koh CJ. "Standardized Process to Improve Patient Flow From ER to the Operating Room for Pediatric Patients with Testicular Torsion" Poster Presentation at European Society for Pediatric Urology 26th Joint Congress. October 15 2015. Prague, Czech Republic.
11. Au JK, Stanasel I, Khandge P, Krasnow R, Cass DL, Olutoye OO, Seth A, Janzen N, Gonzales ET, Roth DR, Koh CJ, Gargollo PC. "Urologic Considerations in the

- Separation of Conjoint Twins.” Podium Presentation at the Society of Fetal Urology. May 14, 2015. New Orleans, LA. Awarded “First Prize: Most Innovative Case Presentation”
12. Au JK, Tan X, Sidani M, Seth A, Roth DR, Gonzales E, Gargollo P, Koh CJ, Smith III TG, Janzen N. “Pediatric Blunt Renal Trauma: Predicting Failure of Nonoperative Management.” Moderated poster at American Urologic Association 2015; New Orleans, LA.
 13. Au, JK. “Guidelines for Pediatric Renal Trauma.” Trauma Morbidity and Mortality Case Conference and Committee Meeting. February 26, 2015. Texas Children’s Hospital. Houston, TX.
 14. Au JK. “Consensus Statement for the Management of Pediatric Blunt Renal Trauma” April 6, 2016. Added to TCH Trauma Website Au, JK, Roth DR “Are Pediatric Urologists Too Burned Out To Make A Difference?.” Edmond T Gonzales Surgical Research Day. Poster Presentation. May 8, 2015. Houston, TX
 15. Alwazeer MR, Chen M, Au JK, Shao Y, Gargollo PC, Sutton VR, Gunn SK, Karaviti LP. “Challenges Associated with V89L Polymorphism in 5-Alpha Reductase deficiency and Normal srd5A2 Gene” Poster presentation at ENDO 2015, San Diego, CA.
 16. Au JK, Pham D, Li S, Hicks J, Cisek L, Roth D. “Thirty Year Review of Pediatric Bladder Tumors: Beyond Rhabdomyosarcoma.” Poster presented at: Pediatric Urology Fall Congress. 2013 Sept 20-22; Las Vegas, NE.
 17. Au JK, Pham D, Li S, Hicks J, Cisek L, Roth D. “Bladder Tumors in Children: The Texas Children’s Hospital Experience.” Podium Presentation: Edmond T. Gonzales Research Day. 2012 June 1; Houston, TX.
 18. Au JK, Schuh J, Pham D, Roth D. “A Review of Clinical Practice in Suspected Acute Testicular Torsion.” Poster presented at: Edmond T. Gonzales Research Day. 2012 June 1; Houston, TX.
 19. Au JK, Florentin D, Ding Y, He D, Ragheb A, Creighton CJ, Frolov A, Dakhova O, Zhang Y, Putluri N, Maity S, Michailidis G, Sreekumar A, Smith CP, Kadmon D, Miles BJ, Ittmann M, Rowley D, Ayala GE. “Influence of the Neural Microenvironment on Prostate Cancer.” Poster presented at: AUA 2012 Annual Meeting. 2012 May 19-23; Atlanta, GA.
 20. Florentin D, Ding Y, Au J, He D, Ragheb A, Creighton CJ, Frolov A, Dakhova O, Zhang Y, Putluri N, Maity S, Michailidis G, Sreekumar A, Smith CP, Kadmon D, Miles BJ, Ittmann M, Rowley D, Ayala GE. “Targeting the Neural Microenvironment in Prostate cancer: a Neoadjuvant Botox Clinical Trial.” Poster presented at: AUA 2012 Annual Meeting. 2012 May 19-23; Atlanta, GA.
 21. Ayala GE, Miles BJ, Au JK, Ittmann M, Rowley D, Freund C “Influence of the Neural Microenvironment on Prostate Cancer.” Poster presented at: SIU Congress. 2012 Sept 30- Oct 4; Fukuoka, Japan
 22. Au JK, Badhiwala N, Pastuszak AW, Boone TB, Amiel GE. “Is it justified to perform annual cystoscopy in spinal cord injured patients to rule out bladder cancer?” Accepted podium presentation South Central Section AUA 2012

23. Au JK, Kelly CT, Coburn M, Amiel GE. "What is the reasoning process of top urology applicants while selecting a residency program in the match process?" South Central Section AUA 2012- Accepted podium presentation

C. Chapters:

1. Au JK, Janzen N. (2016) Pediatric GU Trauma In Pediatric Trauma: Pathophysiology, Diagnosis and Treatment. (2nd ed) CRC Press: Abington, Oxon UK. May 2017. 978-1-498-74924-4

D. Lectures:

1. Lone Star Family Medicine Resident's Didactic Lecture "Pediatric Urology for the Primary Care Physician." October 31, 2018.
2. Blue Fish Pediatrics CME Event "2018 Pediatric Urology Update." October 14, 2018.
3. Memorial Hermann Greater Heights Department of OBGYN Section Meeting. "Circumcision Tip and Tricks and Penile Anomalies." October 8, 2018
4. Memorial Hermann Memorial City Department of Pediatrics Section Meeting. "Hydronephrosis." September 5, 2018.
5. Memorial Hermann Memorial City Department of OBGYN Section Meeting. "Circumcision Tip and Tricks and Penile Anomalies." July 12, 2018
6. UT McGovern Medical School Department of Pediatrics Grand Rounds "Pediatric Nephrolithiasis: Surgical Considerations." December 12, 2017.