

Curriculum Vitae

August 2019

NAME:

KuoJen Tsao, M.D.

PRESENT TITLE:

Professor of Pediatric Surgery

Chief, Division of General and Thoracic Pediatric Surgery

The Children's Fund Distinguished Professor in Pediatric Surgery

McGovern Medical School at the University of Texas Health Science Center

BUSINESS ADDRESS:

Department of Pediatric Surgery

McGovern Medical School at the University of Texas Health Science Center

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UNDERGRADUATE EDUCATION:

1990-1994 University of Kansas, Lawrence, Kansas.

Bachelor of Arts, Biochemistry.

GRADUATE EDUCATION:

1994-1998 University of Kansas Medical School, Kansas City, Kansas.

Doctorate of Medicine.

2007-present University of Texas Medical School at Houston, Houston, Texas

Master's Science in Clinical Research

POSTGRADUATE TRAINING:

1998-2005 University of Cincinnati College of Medicine, Cincinnati, Ohio.

Residency in General Surgery.

2000-2002 University of California, San Francisco Medical School, San Francisco, California.

Fellowship in Fetal Medicine and Therapy.

2005-2007 Children's Mercy Hospital of Kansas City, Kansas City, Missouri.

Fellowship in Pediatric Surgery.

2011-2013 University of Texas Health Sciences Center at Houston, Houston, Texas

Clinical Safety and Effectiveness Program

2013-2014 University of Texas School of Public Health, Houston, Texas

Academic Medical Department Leadership Program

2015 Institute of Healthcare Improvement, Boston, Massachusetts

Patient Safety Executive Development Program

ACADEMIC APPOINTMENTS:

2007-2012 **Assistant Professor**, Departments of Surgery and Pediatric Surgery, The University of Texas Medical School at Houston

2007-2012 **Assistant Professor**, Department of Surgical Oncology, The University of Texas M.D. Anderson Cancer Center

2011-present **Associate Member** of the Graduate Faculty, Graduate School of Biomedical Sciences, The University of Texas Health Science Center at Houston

2012-2015 **Associate Professor**, Departments of Surgery and Pediatric Surgery, The University of Texas Medical School at Houston

2012-2015 **Associate Professor**, Department of Surgical Oncology, The University of Texas M.D. Anderson Cancer Center

2015-2017 **Associate Professor with Tenure**, Department of Surgery, The University of Texas McGovern Medical School at Houston

2016-2017 **Associate Professor**, Department of Obstetrics, Gynecology and Reproductive Sciences, The University of Texas McGovern Medical School at Houston

2017-present **Professor with Tenure**, Departments of Surgery and Pediatric Surgery, The University of Texas McGovern Medical School at Houston

2017-present **Professor**, Department of Surgical Oncology, The University of Texas M.D. Anderson Cancer Center

2017-present **Professor**, Department of Obstetrics, Gynecology and Reproductive Sciences, The University of Texas McGovern Medical School at Houston

HOSPITAL APPOINTMENTS:

- 2007-present Memorial Hermann – Texas Medical Center
- 2007-present Memorial Hermann – Children’s Memorial Hermann Hospital
- 2007-present MD Anderson Cancer Center
- 2007-present Lyndon B. Johnson General Hospital, Harris County Hospital District
- 2010-present The Woman’s Hospital of Texas
- 2010-present Memorial Hermann Southwest Hospital
- 2016-present Memorial Hermann, The Woodlands
- 2017-present Memorial Hermann Sugar Land Hospital
- 2017-present Memorial Hermann Memorial City Medical Center
- 2017-present Memorial Hermann Katy Hospital

ADMINISTRATIVE APPOINTMENTS:

- 2007-present **Co-Director**, The Fetal Center at Children’s Memorial Hermann Hospital and The University of Texas Medical School at Houston
- 2010-present **Fellowship Director**, Center for Surgical Trials and Evidence-based Practice (C-STEP), The University of Texas Medical School at Houston
- 2011-2015 **Associate Program Director**, Pediatric Surgery Fellowship, Department of Pediatric Surgery, The University of Texas Medical School at Houston
- 2011-present **Vice-Chair** for Quality of Care, Department of Pediatric Surgery, The University of Texas Medical School at Houston
- 2011-present **Chair**, Pediatric Peri-operative Safety Council, Children’s Memorial Hermann Hospital, Houston, Texas
- 2012-present **Chair**, The Fetal Center Executive Council, Children’s Memorial Hermann Hospital, Houston, Texas
- 2014-2018 **Surgeon Champion**, National Surgical Quality Improvement Program – Pediatric, Children’s Memorial Hermann Hospital, Houston, Texas
- 2014-present **Co-chair**, Children’s Hospital Safety Council, Children’s Memorial Hermann Hospital, Houston, Texas
- 2015-present **Program Director**, Pediatric Surgery Fellowship, Department of Pediatric Surgery, The University of Texas Medical School at Houston
- 2018-present **Medical Director Children’s Service**, Children’s Memorial Hermann Hospital, Houston, Texas

LICENSURE:

Texas

CERTIFICATIONS:

American Board of Surgery – General Surgery

American Board of Surgery – Pediatric Surgery

PROFESSIONAL ORGANIZATIONS:

International:

2004 International Pediatric Endosurgery Group

2011 International Fetal Medicine and Surgery Society

2012 Pacific Association of Pediatric Surgeons

National:

1994 American Medical Association

1994 Kansas Medical Society

1994 University of Kansas Alumni Association

1998 University of Kansas Medical School Alumni Association

1998 American College of Surgeons, Ohio Chapter

1998 American College of Surgeons, Fellow

2004 Society of American Gastrointestinal Endoscopic Surgeons

2006 American Academy of Pediatrics, Surgery Section

2006 American Pediatric Surgical Association

2007 Association of Academic Surgeons

2010 American Academy of Pediatrics, Fellow

2010 Surgical Outcomes Club

2011 Society of University Surgeons

2011 Society of Asian Academic Surgeons

2017 Lilliputian Surgical Society

2019 American Surgical Association

Local:

2018 Houston Pediatric Society

SERVICE TO STATE ORGANIZATIONS:

2016-2017 Member, Centers of Excellence for Fetal Diagnosis and Therapy Subcommittee, Perinatal Advisory Council, Texas Department of State Health Services

SERVICE TO NATIONAL ORGANIZATIONS:

2008-2011 Fetal Diagnosis and Treatment Committee, American Pediatric Surgical Association

2010-2016 Institutional Representative, Association of Academic Surgeons

2012-2014 Publications Committee, Association of Academic Surgeons

2012-2014 Surgical Quality and Safety Committee, American Pediatric Surgical Association

2012-2017 Steering Committee Representative, North American Fetal Therapy Network

2013-2014 Education Committee, American Pediatric Surgical Association

2013-2014 Continuing Medical Education Subcommittee, American Pediatric Surgical Association

2013-2016 Committee on Quality Improvement and Patient Safety, American Academy of Pediatrics

2014-2016 Education Committee, Association for Academic Surgery

2014-2016 **Vice-chair**, Surgical Quality and Safety Committee, American Pediatric Surgical Association

2014-present **Board member**, North American Fetal Treatment Network

2015 Moderator, South Texas – American College of Surgeons

2016 Nominating Committee, American Pediatric Surgical Association

2016-2018 Scientific Committee, American Academy of Pediatrics, Section on Surgery

2016-2018 **Chair**, Surgical Quality and Safety Committee, American Pediatric Surgical Association

2015-2019 **Secretary/Treasurer**, North American Fetal Treatment Network

2017 Moderator, American Academy of Pediatrics, Surgical Section

2018 Moderator, American Academy of Pediatrics, Surgical Section

2018 Moderator, American College of Surgeons Quality and Safety Conference

2018 Program Committee, American Academy of Pediatrics, Section on Surgery

2018 Program Committee, American Pediatric Surgical Association

2019 Moderator, American College of Surgeons Quality and Safety Conference

SERVICE TO INTERNATIONAL ORGANIZATIONS:

- 2012-2013 Program Committee, Pacific Association of Pediatric Surgeons
- 2013-present Publications Committee, Pacific Association of Pediatric Surgeons
- 2017-present **Board member**, Pacific Association of Pediatric Surgeons
- 2019-present **Secretary**, Pacific Association of Pediatric Surgeons

HONORS AND AWARDS:

- 1990-1994 Howard Hughes Scholar, University of Kansas
- 1990-1994 Merit Scholar, University of Kansas
- 1990-1994 University Honors Program, University of Kansas
- 2004 Alpha Omega Alpha, University of Cincinnati Medical School
- 2005 Arnold P. Gold Foundation Award for Humanism and Excellence in Teaching
University of Cincinnati, Medical School, 2005
- 2008-2014 Dean's Teaching Excellence Award, University of Texas Medical School at
Houston
- 2016 Physician of the Year, Children's Memorial Hermann Hospital
- 2016 Fellow, Clinical Safety and Effectiveness for the University of Texas System
- 2017 Dodge City High School Alumni Ring of Honor

EDITORIAL POSITIONS:

Reviewer:

- African Journal of Pediatric Surgery
- American Journal of Perinatology
- Archives of Diseases in Childhood
- British Medical Journal
- Critical Care Nursing
- Fetal Diagnosis and Therapy
- Journal of Clinical Neonatology
- Journal of Laparoendoscopic & Advanced Surgical Techniques
- Journal of Pediatric Surgery
- Journal of Perinatology
- Journal of Surgical Research
- Journal of the American College of Surgeons
- Pediatrics

Scandinavian Journal of Surgery
Surgery

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON

COMMITTEES:

- 2007-present Education Advisory Committee, Department of Surgery
- 2007-present Clinical Compliance Committee, Department of Pediatric Surgery
- 2009-2011 Faculty Senate Representative
- 2013-present Clinical Competency Committee, Department of Surgery

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON AFFILIATED

HOSPITAL COMMITTEES:

- 2007-present OR Subcommittee, Children's Memorial Hermann Hospital
- 2007-present Pediatric Trauma Committee, Children's Memorial Hermann Hospital
- 2009-present Pediatric OR Safety Council, Children's Memorial Hermann Hospital
- 2011-present Collaborative Quality and Safety Committee, Children's Memorial Hermann Hospital
- 2012-present Pediatric Quality and Safety Action Council, Children's Memorial Hermann Hospital
- 2013-present Surgical Quality Advisory Council, Memorial Hermann Hospital – Texas Medical Center
- 2018-present Performance Improvement and Patient Safety Committee, Children's Memorial Hermann Hospital
- 2018-present Neonatal Quality Assurance and Performance Improvement Committee, Lyndon B. Johnson Hospital, Harris Health System
- 2019-present **Chair**, Children's Services Performance Improvement Program, Children's Memorial Hermann Hospital
- 2019-present Pediatric Medical Staff Quality Review committee, Children's Memorial Hermann Hospital

SPONSORSHIP OF UNDERGRADUATE STUDENTS:

- 2011 Kaitlin A. Doody, Summer Research Program, Rice University, Houston, Texas
- 2012 Madiha Sajid, Summer Research Program, Trinity College, San Antonio, Texas
- 2012 Ajaypal Singh, Summer Research Program, Texas A&M University, College

Station, Texas

- 2013 Madiha Sajid, Summer Research Program, Trinity College, San Antonio, Texas
- 2013-2014 Caroline Kellagher, University of Texas at Austin, Austin, Texas
- 2015 Madeline Folkerts, University of Texas at Austin, Austin, Texas
- 2015 Justin Chang, University of Texas at Austin, Austin, Texas
- 2018 Neha Gupta, University of Texas at Austin, Austin, Texas
- 2019 Rachel Amara Mbeike, Yale University, New Haven, Connecticut

SPONSORSHIP OF MEDICAL STUDENTS:

- 2008 Andrew Jackson, Summer Research Program, University of Texas Medical School at Houston – Internal Medicine, University of Texas Medical School at Houston, Houston, TX
- 2009 Ricardo Jacquez, Summer Research Program, University of Texas Medical School at Houston – Surgery-Preliminary, NY-Presbyterian Queens, Flushing, NY
- 2009 Clinton Fuller, Summer Research Program, University of Texas Medical School at Houston – Anesthesiology, Baylor College of Medicine, Houston, TX
- 2010 Samuel Carson, Summer Research Program, University of Texas Medical School at Houston – General Surgery, University of Louisville School of Medicine, Louisville, KY
- 2011 Russell B. Hawkins, Summer Research Program, University of Texas Medical School at Houston – General Surgery, University of Florida College of Medicine/Shands Hospital, Gainesville, FL
- 2011 Casey E. Senter, Summer Research Program, University of Texas Medical School at Houston – Obstetrics-Gynecology, University of Texas Southwestern Medical School, Dallas, TX
- 2011 Hannah S. Smith, Summer Research Program, University of Texas Medical School at Houston – General Surgery, University of Texas Medical School at Houston, Houston, TX
- 2011 Jane Y. Zhao, Summer Research Program, University of Texas Medical School at Houston – General Surgery, University of Buffalo School of Medicine, Buffalo, NY
- 2012 Jasson Abraham, Summer Research Program, University of Texas Medical School at Houston – Texas A&M Health Science Center College of Medicine –

- Scott & White, Temple, TX
- 2012 Gillian Goddard, Summer Research Program, University of Texas Medical School at Houston – General Surgery, University of Cincinnati Medical Center, Cincinnati, OH
- 2012 Stephanie Logterman, Summer Research Program, University of Texas Medical School at Houston – Orthopaedic Surgery, University of Colorado School of Medicine, Denver, CO
- 2013 Nathan Rogers, Summer Research Program, University of Texas Medical School at Houston – Orthopaedic Surgery, McGovern Medical School at UTHealth, Houston, TX
- 2013 Danielle Duibisson, Summer Research Program, University of Texas Medical School at Houston – Anesthesiology, Baylor College of Medicine, Houston, TX
- 2013 Hanna S. Smith, Summer Research Program, University of Texas Medical School at Houston
- 2014 Courtney M. Chang, Summer Research Program, University of Texas Medical School at Houston – Surgery-Preliminary Urology, McGovern Medical School at UTHealth, Houston, TX
- 2014 Shruti Sakhuja, Summer Research Program, University of Texas Medical School at Houston – Pediatrics, Washington University School of Medicine/St. Louis Children's Hospital, St. Louis, MO
- 2014 Jason M. Podolnick, Summer Research Program, University of Texas Medical School at Houston – Surgery-Preliminary, Tulane University School of Medicine, New Orleans, LA
- 2014 Hong Thai, Summer Research Program, University of Texas Medical School at Houston – Internal Medicine, HCA Gulf Coast Education Consortium, Houston, TX
- 2015 Sarah Covey, Summer Research Program, University of Texas Medical School at Houston – MD/MPH Student, University of Kentucky College of Medicine/College of Public Health, Lexington, KY
- 2015 Michael Diffley, Summer Research Program, University of Texas Medical School at Houston, Webber Award Winner – Surgery-Preliminary/Radiology-Diagnostic, Saint Louis University School of Medicine, St. Louis, MO
- 2015 Kelly Caldwell, Summer Research Program, University of Texas Medical School at Houston – Surgery-Preliminary/Urology, University of Texas Southwestern

- Medical School, Dallas, TX
- 2015 Aubrey Hildebrandt, Summer Research Program, University of Texas Medical School at Houston – Pediatrics, University of Arkansas for Medical Sciences College of Medicine, Little Rock, AR
- 2015 Andrew Minzenmayer, Summer Research Program, University of Texas Medical School at Houston – Medicine-Preliminary/Dermatology, Baylor-Scott & White, Temple, TX
- 2016 Jocelyn Abraham, Summer Research Program, University of Texas Medical School at Houston – Internal Medicine, Baylor College of Medicine, Houston, TX
- 2016 Jiansen Wang, Summer Research Program, University of Texas Medical School at Houston – Medicine-Preliminary, McGovern Medical School at UTHealth, Houston, TX
- 2016 Kendall Masada, Summer Research Program, University of Texas Medical School at Houston, Webber Award Winner – Orthopaedic Surgery/Research-6 year, Hospital of the University of Pennsylvania-Penn Medicine, Philadelphia, PA
- 2017 Dylan N. Supak, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2017 Robert Martin, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2017 Stephanie N. Wythe, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2017 Rigo Gutierrez, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2017 Grant M. Garwood, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2018 Maile Curbo, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2018 Alexandria Childs, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2018 Tayler Parker, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2018 John-Paul Bach, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2019 Santiago Ceron, Summer Research Program, McGovern Medical School at the

University of Texas Health Science Center

- 2019 Ali Abraham Noorbaksh, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center
- 2019 Jeffrey Vehawn, Summer Research Program, McGovern Medical School at the University of Texas Health Science Center

SPONSORSHIP OF SURGICAL RESIDENTS:

- 2008 Shanil Shah MD, Department of Surgery, University of Texas Medical School at Houston
- 2008 Nathan D. Allison MD, Department of Surgery, University of Texas Medical School at Houston
- 2009 John Horton MD, Department of Surgery, William Beaumont Army Medical Center, El Paso, TX
- 2010 Phillip Letourneau, Department of Surgery, University of Texas Medical School at Houston
- 2013 Laura Hollinger, Department of Surgery, Houston Methodist Hospital
- 2013 Naruhiko Ikoma MD, Department of Surgery, University of Texas Medical School at Houston

SPONSORSHIP OF GRADUATE STUDENTS:

- 2011-12 Roya Mostavi, Genetic Counseling program, University of Texas Graduate School of Biomedical Sciences at Houston

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

- 2011-2013 Shauna M. Levy, MD, MS, Department of Surgery, University of Texas Medical School at Houston
- 2011-2013 Uma R. Phatak, MS, MD, Department of Surgery, University of Texas Medical School at Houston
- 2011-2013 Sara Fallon, MD, MS, Department of Surgery, Baylor College of Medicine
- 2012-2014 Matthew Pommerening, Department of Surgery, University of Texas Medical School at Houston
- 2013-2016 Luke R. Putnam, Department of Surgery, University of Texas Medical School at San Antonio
- 2013-2015 Zeinab M. Alawadi, Department of Surgery, University of Texas Medical School

- at Houston
- 2014-2016 Julie L. Holihan, Department of Surgery, University of Texas Medical School at Houston
- 2015-2017 Emma Hamilton, Department of Surgery, Baylor University School of Medicine – Dallas
- 2015-2017 Krislynn M. Mueck, Department of Surgery, McGovern Medical School at the University of Texas Health Science Center
- 2017-2018 Georg Keng, Department of Surgery, University of Texas School of Medicine at San Antonio
- 2015-2018 Kathryn T. Anderson, Department of Surgery, University of Arizona School of Medicine
- 2016-2018 Marisa Bartz-Kurycki, Department of Surgery, University of Arizona School of Medicine
- 2017-present Dalya M. Ferguson, Department of Surgery, McGovern Medical School at the University of Texas Health Science Center
- 2018-2019 Jonathan K. Chica, Department of Surgery, St. Louis University School of Medicine
- 2019-present Seyed Arshia Arshad, Department of Surgery, University of New Mexico School of Medicine

CURRENT TEACHING RESPONSIBILITIES:

- 2007-present Lecturer – Genetic Counseling, The University of Texas Graduate School of Biomedical Sciences, once per year
- 2007-present Lecturer – Developmental Anatomy, The University of Texas Medical School at Houston, once per year
- 2007-present Lecturer – Pediatric Surgery, The University of Texas Medical School at Houston, bimonthly
- 2007-present Lecturer – Obstetrics, Gynecology and Reproductive Sciences, The University of Texas Medical School at Houston, once per year

CURRENT GRANT SUPPORT:

- 2017-present Gordon & Betty Moore Foundation/March of Dimes, Center on Perinatal Safety. (SPAR # 48039). (PI); \$2,000,000
- 2016-present National Institutes Health R01 NICHD. Do Cesarean Deliveries Reduce Mortality

in Infants with Birth Defects. (Co-PI: Tsao); \$191,730

PREVIOUS GRANT SUPPORT:

- 2000-2002 National Institutes of Health T32 GI Training Grant in Gastrointestinal Research. (DK07573), Fellow
- 2008-2011 National Institutes Health K12 Mentored Clinical Scientist Development Program Award. (5 KL2 RR 024149); \$360,000; Principal investigator; 50% Neonatal gastroesophageal reflux disease and anti-reflux surgery, \$120,000/year, thru June 2011
- 2009-2010 University of Texas Academy of Health Science Education Small Grants. Utilization of Wiki for evidence-based education. \$5000; Co-Investigator
- 2011-2104 Bentsen Foundation: \$486,684 - Amniotic fluid derived MSCs for neurological injury. Co-investigator.
- 2012-2014 Cardinal Health E3 Patient Safety Grant. Assessment of the Implementation of a Pediatric Surgical Preoperative Checklist. (PI: Tsao); \$29,750
- 2012-2014 American Pediatric Surgical Association Foundation. Errors and adverse events in the setting of neonatal surgery performed in the neonatal intensive care unit (PI: Tsao, co-Is: Kao and Lally); \$25,000
- 2013-2015 University of Texas-Memorial Hermann Center for Healthcare Quality and Safety. How should residents be taught about patient safety in the OR: a pilot randomized trial. (PI: Tsao); \$35,000
- 2012-2016 National Institutes Health R21 NICHD. Errors and adverse events in the setting of neonatal surgery performed in the neonatal intensive care unit. (PI: Tsao, co-Is: Kao and Lally); \$418,000.
- 2015-2016 March of Dimes Center on Perinatal Safety: Phase 1. (PI: Tsao); \$100,000

PREVIOUS SPONSORED GRANT SUPPORT:

- 2011 National Institutes of Health NIDDK Medical Student Summer Research Program. Intraoperative staging of pediatric appendicitis. \$4000, Russell B. Hawkins, MS-1.
- 2012 National Institutes of Health NIDDK Medical Student Summer Research Program. SCIP compliance for pediatric appendicitis. \$4000, Jasson Abraham, MS-1.

- 2013 National Institutes of Health NIDDK Medical Student Summer Research Program. Improving prophylactic antibiotic compliance with integration into surgical safety checklist. \$2000, Nathan Rogers, MS-1.
- 2013 National Institutes of Health NIDDK Medical Student Summer Research Program. Improving the Safety Culture of the OR with Improved Checklist Adherence. \$1000, Danielle Dubuisson, MS-1.
- 2015 University of Texas Medical School at Houston Summer Research Program. Variance in antibiotic therapy for pediatric appendicitis. \$1000, Kelly Caldwell, MS-1
- 2015 University of Texas Medical School at Houston Summer Research Program. Variation in prehospital imaging for pediatric abdominal pain. \$1000, Michael Diffley, MS-1
- 2015 University of Texas Medical School at Houston Summer Undergraduate Research Program. Long-term follow-up after fetal repair of spina bifida. \$1000, Madeline Folkerts
- 2016 McGovern Medical School at the University of Texas Health Science Center Summer Research Program. Variation in prehospital imaging for pediatric abdominal pain. Jiansen Wang, \$2500
- 2016 McGovern Medical School at the University of Texas Health Science Center Summer Research Program. Variation in prehospital imaging for pediatric abdominal pain. Kendall Masada, \$2500, Webber Award Winner
- 2017 McGovern Medical School at the University of Texas Health Science Center Summer Undergraduate Research Program. Dylan N. Supak, \$1000
- 2017 McGovern Medical School at the University of Texas Health Science Center Summer Undergraduate Research Program. Robert Martin, \$1000
- 2017 McGovern Medical School at the University of Texas Health Science Center Summer Undergraduate Research Program. Stephanie N. Wythe, \$1000
- 2017 McGovern Medical School at the University of Texas Health Science Center Summer Undergraduate Research Program. Rigo Gutierrez, \$3000
- 2017 McGovern Medical School at the University of Texas Health Science Center Summer Undergraduate Research Program. Grant M. Garwood, \$1000
- 2018 McGovern Medical School at the University of Texas Health Science Center Summer Undergraduate Research Program. John-Paul Bach, \$1000
- 2018 McGovern Medical School at the University of Texas Health Science Center

Summer Undergraduate Research Program. Alexandria Childs, \$1000

PREVIOUS FUNDED CLINICAL RESEARCH:

- 2011 Bristol-Myers Squibb Research and Development. Pilot Study for Standardization of Diagnostic Techniques for Central Venous Catheters-Venous Thromboembolism Study. Co-Investigator.
- 2011 Bayer. A randomized, double-blind, multicenter trial to evaluate the safety and efficacy of sequential intravenous, oral moxifloxacin versus comparator in pediatric subjects with complicated intra-abdominal infection. Principal Investigator.

PUBLICATIONS:

Abstracts (*presented):

1. **Tsao K***, Hirose S, Sydorak R, Sandberg PL, Filly RA, Albanese CT, Harrison MR, Farmer DL. Selective Reduction of Acardiac/Acephalic Twin by Radiofrequency Ablation. Proceedings for Society of Maternal-Fetal Medicine, Reno, NV; January 2001
2. Sydorak RM, Hirose S, **Tsao K**, Sandberg P, Filly RA, Harrison MR, Farmer DL, Albanese C. Chorioamniotic membrane separation following fetal surgery. Proceedings for Society of Maternal-Fetal Medicine Reno, NV; January 2001
3. Albanese CT, Sydorak R, Lee H, Feldstein V, Machin G, **Tsao K**, Farmer DL, Harrison MR. Complications of Monochorionic Twinning: Spectrum of Disorders and Treatment. Proceedings for International Pediatric Endosurgery Group. Brisbane, Australia; March 2001
4. **Tsao K***, Rosenthal P, Danzer E, Sydorak R, Hirose S, Farmer DL, Albanese CT, Harrison MR, Lee H. Comparison of Drainage Techniques for Biliary Atresia. Pacific Association of Pediatric Surgeons La Jolla, CA; May 2002
5. **Tsao K***, Hawgood S, Dhawan K, Hirose S, Sydorak R, Albanese CT, Farmer DL, Harrison MR, Lee H. Resolution of Hydrops Fetalis in Congenital Cystic Adenomatoid Malformation after Prenatal Steroid Therapy. American Pediatric Surgical Association Phoenix, AZ; May 2002
6. Hirose S, Sydorak R, **Tsao K**, Cauldwell C, Rosen M, Albanese CT, Lee H, Farmer DL. Spectrum of Intrapartum Management Strategies for Giant Fetal

- Cervical Teratoma. American Pediatric Surgical Association Phoenix, AZ; May 2002
7. **Tsao K***, Lee H. Extrapleural Thoracoscopic Repair of Esophageal Atresia with Tracheo-Esophageal Fistula. American Pediatric Surgery Association Phoenix, Arizona; May 2002
 8. Sydorak R, **Tsao K**, Hirose S, Farrell RA, Filly RA, Albanese CT, Harrison MR. Congenital Diaphragmatic Hernia and Hydrops: A lethal association? Pacific Association of Pediatric Surgeons, La Jolla, CA; May 2002
 9. Sydorak R, Hirose S, **Tsao K**, Lee H, Farmer DL, Harrison MR, Albanese CT. Bioprosthetic repair of congenital diaphragmatic hernia with small intestine submucosa. Pacific Association of Pediatric Surgeons La Jolla, CA; May, 2002
 10. Albanese CT, **Tsao K**, Sydorak R, Lee H. Thoracoscopic Lobectomy for Prenatally Diagnosed Lung Lesion. International Pediatric Endosurgical Group, May 2002
 11. Sydorak RM, Sbragia, L, Nijagel A, Hirose S, **Tsao K**, Phibbs R, Harrison MR, Albanese CT. Gastroschisis: Small Hole, Big Cost. Pacific Association of Pediatric Surgeons, LaJolla, CA; May 2002
 12. Hirose S, Sydorak R, **Tsao K**, Lee H, Albanese CT, Bratton B, Harrison MR, Farmer DL. Thoracoscopic Resection of Foregut Duplication Cysts. Pacific Association of Pediatric Surgeons, LaJolla, CA; May 2002
 13. Hirose S, **Tsao K**, Sydorak R, Lee H, Albanese CT, Bratton B, Harrison MR, Farmer DL. Traction Elongation for Vaginal Atresia: Initial experience with a novel technique. Pacific Association of Pediatric Surgeons, LaJolla, CA; May 2002
 14. Sydorak RM, Feldstein V, Tsao K, Hirose S, Lee H, Farmer DL, Harrison MR, Albanese CT. The Threat of an Anomalous Twin. Pacific Association of Pediatric Surgeons, LaJolla, CA; May 2002
 15. **Tsao K***, Vu L, Lee H, Albanese CT, Farmer DL, Harrison ML, Lee H, Goldstein RB. Characteristics of Congenital Cystic Adenomatoid Malformations Associated with Non-immune hydrops and Outcome. American Academy of Pediatrics, Boston, MA; October, 2002
 16. **Tsao K***, Boudreau N, Lee H. Increased Expression of Angiogenesis-related Homeobox Genes during liver regeneration. American Academy of Pediatrics, Boston, MA; October, 2002.

17. Lee H, **Tsao K**, Hirose S, Albanese CT. Initial Experience with Extrapleural and Transpleural Thoracoscopic Repair of Esophageal Atresia and Tracheo-Esophageal Atresia. American Pediatric Surgical Association, Fr. Lauderdale, FL; May 2003
18. **Tsao K***, Wei B, Goldstein RB, Farmer DL, Albanese CT, Harrison MR, Lee H. Fetal intervention may benefit fetuses with severe right-sided congenital diaphragmatic hernia. Pacific Association of Pediatric Surgery, Sidney, Australia; May 2003
19. **Tsao K**, Valusek PA, St. Peter SD, Sharp RJ, Andrews WS, Snyder CL, Ostlie DJ, Holcomb GW III. A Comparison of Chest Tubes versus Bulb Suction Drains in Pediatric Thoracic Surgery. Canadian Association of Pediatric Surgeons. Calgary; September 2006.
20. **Tsao K***, St. Peter SD, Valusek TA, Keckler SJ, Sharp SW, Holcomb III GW, Snyder CL, Ostlie DJ. Adhesive Small Bowel Obstruction after Appendectomy in Children: Comparison between the Laparoscopic and Open Approach. American Academy of Pediatrics. Atlanta, GA; October 2006.
21. Valusek PA, St. Peter SD, **Tsao K**, Spilde TL, Ostlie DJ, Andrews WS, Sharp RJ, Snyder CL, Holcomb GW III. The Use of Fundoplication as Prevention of Apparent Life-Threatening Events. American Academy of Pediatrics Atlanta, GA; October 2006
22. St. Peter SL, Valusek PA, **Tsao K**, Holcomb GW III, Ostlie DJ, Snyder CL. Abdominal Complications related to type of repair for Congenital Diaphragmatic Hernia. Academic Surgical Congress Phoenix, AZ, February 2007.
23. **Tsao K***, Keckler SJ, Nair A, St. Peter SD, Ostlie DJ, Holcomb GW III. Thoracoscopy for Malignancy in Children. Society of American Gastrointestinal and Endoscopic Surgeons. Las Vegas, NV, April 2007.
24. Ho B, Keckler SJ, Spilde TL, **Tsao K**, Ostlie DJ, Holcomb GW III, St. Peter SD. Chest Radiograph following central line placement under fluoroscopy: Utility or Futility? Canadian Association of Pediatric Surgeons St. John's, New Foundland, August 2007.
25. **Tsao K***, St. Peter, S.D., Nair, A., Ostlie D.J., Holcomb III, G.W., Thoracoscopy in Infants and Children. International Pediatric Endosurgery Group, Buenos Aires, Argentina, September, 2007.

26. Spilde TL, Keckler SJ, St. Peter SD, **Tsao K**, Holcomb III GW, Ostlie DJ. A Comparison of Open and Laparoscopic U-clip Repair of Congenital Anomalies of the Duodenum. American Academy of Pediatrics. San Francisco, CA, October 2007.
27. **Tsao K***, St. Peter SD, Holcomb GW III, Sharp SW, Spilde TL, Murphy JP, Snyder CL, Ostlie DL. Post-Operative Antibiotic Regimen for Perforated Appendicitis in Children: A Prospective Randomized Trial. American Academy of Pediatrics San Francisco, CA, October 2007.
28. Keckler SJ, **Tsao K**, Sharp SW, Ostlie DJ, Holcomb III GW, St. Peter SD. Resource Utilization and Outcomes from percutaneous drainage and interval appendectomy for perforated appendicitis with abscess. American Academy of Pediatrics. San Francisco, CA, October 2007.
29. **Tsao K**, Holcomb GW. Laparoscopic gastrostomy. American College of Surgeons. Surgical Forum, New Orleans, LA; October 2007.
30. Ostlie DJ, **Tsao K**, Holcomb GW. Laparoscopic Thal Fundoplication. American College of Surgeons. Surgical Forum, New Orleans, LA; October 2007.
31. St. Peter SD, **Tsao K**, Sharp SW, Holcomb III GW, Ostlie DJ. Predictors of emesis and time to goal intake after pyloromyotomy: Analysis of a Prospective Randomized Trial. Academic Surgical Congress Huntington Beach, CA, February 2008.
32. **Tsao K***, St. Peter SD, Valusek PA, Spilde TL, Keckler SJ, Nair A, Ostlie DJ, Holcomb GW III. Management of Acute Appendicitis in the CT Era. Academic Surgical Congress Huntington Beach, CA, February 2008.
33. St. Peter SD, **Tsao K**, Sharp SW, Holcomb III GW, Ostlie DJ. Blood utilization in children with blunt solid organ injury. Academic Surgical Congress Huntington Beach, CA, February 2008.
34. **Tsao K***, Holcomb GW. Modification of the Nuss procedure with a small sub-xyphoid incision. American Pediatric Surgical Association, Phoenix, AZ; May 2008.
35. St. Peter SD, **Tsao K**, Spilde TL, Sharp SW, Harrison C, Jackson MA, Keckler SJ, Andrews WA, Holcomb GW III, Ostlie DJ. Thoracoscopic Decortication versus Tube Thoracostomy with Fibrinolysis for Empyema in Children: A Prospective, Randomized Trial. American Pediatric Surgical Association, Phoenix, AZ, May 2008.

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78. Douma C, Eichenwald EC, Distefano S, **Tsao K**, Shelburne J. Building a Framework for Quality Program Integration between a Hospital and Academic Medical School. University Health System Consortium. Atlanta, GA; October 15-18, 2013.
79. Putnam LR, Levy, SM, Sarid M, Dubuisson D, Rogers N, Kao LS, Lally KP, **Tsao K**. Multi-Faceted Interventions Significantly Improve Checklist Adherence. Academic Surgical Congress. San Diego, CA; February 4-6, 2014.
80. Putnam LR, Levy SL, Johnson E, Williams K, Taylor K, Lally K, **Tsao K**. Same-day discharge for simple pediatric appendicitis: sustainable quality improvement requires ongoing surveillance. Academic Surgical Congress. San Diego, CA; February 4-6, 2014.
81. Hollinger L, Lally PA, **Tsao K**, Wray CJ, Lally KP for the Congenital Diaphragmatic Hernia Study Group. A risk-stratified analysis of delayed neonatal congenital diaphragmatic hernia repair: delayed repair may not improve outcomes. Academic Surgical Congress. San Diego, CA; February 4-6, 2014.

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83. Putnam LR, Levy SM, Johnson E, Williams K, Taylor K, Lally KP, **Tsao K**. A Pediatric Appendicitis Pathway: The Importance of ongoing quality improvement surveillance. South Texas – American College of Surgeons. Austin, TX; February 20-22, 2014.
84. Putnam LR, Levy SM, Rogers NB, Hook-Dufresne DM, Matuszczak M, Jain R, Lao LS, Lally KP, **Tsao K**. Inadequate Prophylactic Antibiotic Administration: Can't we just fix it with the checklist? Pacific Association of Pediatric Surgeons. Banff, Calgary, Canada. April 2014.
85. Putnam LR, Levy SM, Phatak UR, Hook-Dufresne DM, Hetz RA, Wray CJ, Kao LS, Lally KP, **Tsao K**. Diagnosing Appendicitis: Are We Speaking the Same Language? Pacific Association of Pediatric Surgeons. Banff, Calgary, Canada. April 2014.
86. Putnam LR, Levy SM, Kellagher CM, Smith HS, Holtzmann-Pazgal G, Lally KP, **Tsao K**. Non-responders to a standardized protocol for complex appendicitis have significant morbidity: outcomes from a prospective cohort study. Pacific Association of Pediatric Surgeons. Banff, Canada; May 25 – May 29, 2014.
87. Alemayehu H, St. Peter SD, **Tsao K**, Gourlay DM, Upperman JS, Kane TD, Islam S, Iqbal CW. Correlation of Pancreatic Enzymes and Grade of Injury and Outcomes in Blunt Pancreatic Trauma. Pacific Association of Pediatric Surgeons. Banff, Canada; May 25 – May 29, 2014.
88. Savoie K, Shahroz A, Blakely M, Dassinger S, Dorale A, Duggan E, Harting M, Huang E, Markel T, Moore-Olufemi SD, Shah S, St. Peter SD, **Tsao K**, Wyrick D, Williams R. Improving gastroschisis outcomes: does birthplace matter? Pacific Association of Pediatric Surgeons. Banff, Canada; May 25 – May 29, 2014.
89. Liang Li, Tatevian N, Bhattacharjee M, **Tsao K**, Hicks J. Desmoplastic Small Round Cell Tumor with Atypical Immunohistochemical Profile and Rhabdoid-Like Differentiation. Association of Clinical Scientists. May 28-31, 2014.
90. Fallon S, Langer J, St.Peter SD, **Tsao K**, Wesson DE. H-Type Tracheoesophageal Fistulas: A Multicenter Review of Outcomes in a Rare

- Disease. American Pediatric Surgical Association. 45th Annual Meeting. Phoenix, AZ; May 29 - June 1, 2014.
91. Levy SM, Lally KP, Blakely MB, Duggan E, Kawaguchi A, Lopez M, Streck CJ, Vogel AW, Calkins C, Dassinger MS, Rusessll R, St.Peter SD, **Tsao K**. Pediatric Surgical Research Collaborative. Surgical Wound Misclassification: A Multicenter Evaluation. American Pediatric Surgical Association. 45th Annual Meeting. Phoenix, AZ; May 29 - June 1, 2014.
92. Moise KJ, Papanna R, Mann LM, Fletcher S, **Tsao K**, Argoti P, Schniederjan R, Bhattacharjee M, Stewart RJ, Tseng SCG. Evaluation of different patch materials for in-utero repair of myelomeningocele. The 33rd Annual Meeting of the International Fetal Medicine & Surgery Society. Chatam, Massachusetts, September 7-11, 2014.
93. Putnam LR, Johnson A, Moise KJ, Bebbington MW, Papanna R, Garcia EI, Weir JW, **Tsao K**. Generalizability of a randomized controlled trial: Can we maintain equipoise outside of the Management of Myelomeningocele (MOMS) Trial. The 33rd Annual Meeting of the International Fetal Medicine & Surgery Society. Chatham, Massachusetts, September 7-11, 2014.
94. Bebbington MW, **Tsao K**, Johnson A, Moise KJ. Open Fetal Surgery for Myelomeningocele: Outcomes in a post MOMs Trial cohort. International Society of Ultrasound in Obstetrics and Gynecology. Barcelona, Spain, September 14-17, 2014.
95. Putnam LR, John SD, Greenfield SA, Kellagher CM, Lally KP, **Tsao K**. The Utility of the Contrast Enema in Neonates with Suspected Hirschsprung's Disease. American Academy of Pediatrics – Section on Surgery. San Diego, CA; October 11-14, 2014.
96. Putnam LR, Levy SM, Holzmann-Pazgal, Lally KP, Kao LS, **Tsao K**. Surgical Debriefing Improves Surgical Wound Classification and Surgical Site Infection Risk-Stratification in Pediatric Appendicitis. American Academy of Pediatrics – Section on Surgery. San Diego, CA; October 11-14, 2014.
97. Putnam LR, Davis K, Levy SM, Holzmann-Pazgal, Lally KP, **Tsao K**. Surgical Site Infection Reporting May Be Underestimated without Multidisciplinary. American Academy of Pediatrics – Council on Quality Improvement and Patient Safety. San Diego, CA; October 11-14, 2014.

98. Putnam LR, **Tsao K**. Optimizing the Utility of Surgical Wound Classification through Targeted Interventions. The University of Texas System Shared Visions Conference. October 15-16, 2014, San Antonio, Texas.
99. Putnam LR, **Tsao K**. Effective Checklist Implementation Requires a Sustained, Multifaceted Approach. The University of Texas System Shared Visions Conference. October 15-16, 2014, San Antonio, Texas.
100. Putnam LR, Levy SM, Kellagher C, Kao LS, Etchegaray JM, Thomas EJ, Lally KP, **Tsao K**. Resident Perceptions of Safety in the Perioperative Environment: Where Can We Improve? Surgical Forum. American College of Surgeons. San Francisco, CA; October 26-30, 2014.
101. Papanna R, Mann L, Fletcher S, Prabhu SP, **Tsao K**, Argoti PS, Snowise S, Ryan SW, Bhattacharjee M, Tseng SC, Moise Jr. KJ. Cryopreserved Human Umbilical Cord (HUC) as a Regenerative Patch Material for In-utero Repair of Myelomeningocele (MMC) to Preserve Neuronal Anatomy. Society for Maternal and Fetal Medicine. 35th Annual meeting in San Diego, CA February 2015.
102. Chang CM, Putnam LR, Podolnick JM, Sakhuja S, Matuszczak MM, Austin MT, Kao LK, Lally KP, **Tsao K**. Surgical Antibiotic Prophylaxis Requires More Than Operating Room Interventions. 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.
103. Putnam LR, Nguyen LK, Lally KP, Franzini L, **Tsao K**, Austin MR. A Statewide Analysis of Specialized Care for Pediatric Appendicitis. 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.
104. Putnam LR, Alawadi ZM, Jain R, Matuszczak M, Kao LS, Etchegaray JM, Thomas EJ, Lally KP, **Tsao K**. Educational and Team-Building Interventions are Necessary but Insufficient to Change Safety Culture. 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.
105. Putnam LR, Sakhuja S, Chang CM, Podolnick JM, Jain R, Matuszczak M, Wadhwa N, Austin MT, Kao LS, Lally KP, **Tsao K**. A Multi-phase Surgical Checklist Requires a Multi-phased Approach. 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.
106. Putnam LR, Chang CM, Podolnick JM, Sakhuja S, Jain R, Matuszczak M, Austin MT, Kao LS, Lally KP, **Tsao K**. Surgical Safety Checklist Fidelity: Are We Doing What We Should? 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.

107. Podolnick JM, Putnam LR, Sakhuja S, Chang CM, Austin MT, Lally KP, **Tsao K**. Variability in Surgical Skin Preparation Adherence in Common Pediatric Operations. 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.
108. Alawadi Z, Putnam LR, Landgren R, Etchegaray J, Thomas E, **Tsao K**, Kao LS. Speaking up for patient safety surgical and pediatric residents. 10th Annual Academic Surgical Congress. Las Vegas, Nevada. February 3-5, 2015.
109. Kawaguchi A, Jain R, Levy S, Putnam L, Lally K, Pham D, Wright S, Kao L, **Tsao K**. Hand-written report cards: a sustainable system to improve pediatric perioperative safety culture. 17th Annual National Patient Safety Foundation. Austin, Texas. April 29 – May 1, 2015.
110. Putnam LR, Levy SM, Blakely MB, Lally KP, Wyrick DL, Dassinger MS, Russell R, Huang EY, Vogel AW, Streck CJ, Kawaguchi A, **Tsao K**. Pediatric Surgical Research Collaborative. Surgical Wound Classification Improves But Remains Unreliable Despite Multifaceted Interventions. American Pediatric Surgical Association. Fort Lauderdale, FL; April 30 - May 3 2015.
111. Putnam LR, Ostovar-Kermani TG, Levy SM, Pham DH, Austin MT, Kawaguchi AL, Harting MT, Holzmann-Pazgal GH, Lally KP, **Tsao K**. Why not drains? A Prospective Evaluation of Routine Peritoneal Drains in Children with Perforated Appendicitis. Pacific Association of Pediatric Surgeons. Jeju Island, South Korea; May 17-21, 2015.
112. Donepudi R, Pappana R, Austin MT, Bebbington MR, Johnson A, **Tsao K**, Moise KJ. Prenatal Predictors of Neonatal Outcomes in Gastroschisis. 34th Annual International Fetal Medicine and Surgery Society. Hersonissos, Crete; June 19-23, 2015
113. Pappana R, Moise Jr KJ, Mann LK, Fletcher S, Snowise S, **Tsao K**, Argoti P, Johnson A, Schniederjan R, Bhattacharjee MB, Stewart R, Prabhu S, Tseng SCG. Human umbilical cord as a regenerative patch material for in-utero repair of spina bifida. 19th International Conference on Prenatal Diagnosis and Therapy. Washington DC; July 2015.
114. Putnam LR, **Tsao K**, Morini F, Lally P, Lally KP, Harting MT for the Congenital Diaphragmatic Hernia Study Group. Inhaled nitric oxide use among patients with congenital diaphragmatic hernia: an analysis of 3367 patients. 2015 International

- Congenital Diaphragmatic Hernia Workshop. Toronto, Canada; September 14-15, 2015.
115. Putnam LR, Pham DH, Ostovar-Kermani TG, Alawadi ZM, Etchegaray JM, Ottosen MJ, Thomas EJ, Kao LS, Lally KP, **Tsao K**. How Should Surgical Residents Be Educated about Patient Safety in the Operating Room: a Pilot Randomized Trial. Surgical Forum. American College of Surgeons. Chicago, Illinois; October 4-8, 2015.
116. Kawaguchi A, Jain R, Pham D, Putnam LR, Levy SM, Kellagher C, Wright S, Kao LS, Lally KP, **Tsao K**. Improving Pediatric Perioperative Safety using Two Variance Reporting Systems. American Academy of Pediatrics, Section on Surgery. Washington DC; October 2015
117. Moody CC, Mann LM, Lyu M, Moise Jr. KJ, Johnson A, Bebbington MW, **Tsao K**, Fletcher S, Papanna R. Fetal membrane changes in preterm birth after in-utero repair of spina bifida repair. Society for Maternal Fetal Medicine Annual Meeting. Atlanta, Georgia, 2016.
118. Hamilton EC, Pham DH, Minzenmayer AN, Kao LK, Lally¹ KP, **Tsao K**, Kawaguchi AL. Are We Missing the Near Misses in the Operating Room? 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
119. Covey SE, Putnam LR, Anderson KT, Lally KP, **Tsao K**. Do All Intestinal Malrotations Require a Ladd Procedure? Prophylactic vs Post-Symptomatic Outcomes. 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
120. Anderson KT, Putnam LR, Ostovar-Kermani T, Hamilton EC, Pham DH, Austin MT, Kawaguchi AL, Kao LK, Lally KP, **Tsao K**. Imaging Gently? Higher Rates of CT Imaging for Pediatric Appendicitis in Non-Children's Hospitals. 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
121. Diffley MB, Putnam LR, Hildebrandt AA, Caldwell KM, Minzenmayer AN, Covey SE, Anderson KT, Kawaguchi AL, Pham DH, Kao LS, Lally KP, **Tsao K**. Good Catches and Near Misses: The Hidden Benefit of Surgical Safety Checklists. 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
122. Hildebrandt AA, Putnam LR, Diffley MB, Caldwell KM, Covey SE, Mizenmayer AN, Anderson KT, Kawaguchi AL, Kao LS, Lally KP, **Tsao K**. What's Wrong with the Surgical Safety Checklist? Thinking Outside the Checkbox. 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.

123. Caldwell KM, Putnam LR, Covey SE, Diffley MB, Hildebrandt AA, Mizenmayer AN, Anderson KT, Kawaguchi AL, Lally KP, **Tsao K**. Pardon the Interruption: An Observational Study of OR Interruptions. 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
124. Putnam LR, Ostovar-Kermani T, Anderson KT, Pham DH, Austin MT, Kawaguchi AL, Kao LK, Lally KP, **Tsao K**. Do Clinical Pathways Actually Improve Outcomes for Pediatric Appendicitis? 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
125. Putnam LR, **Tsao K**, Morini F, Lally PA, Lally KP, Harting MT. Variability in Inhaled Nitric Oxide Use among Patients with Congenital Diaphragmatic Hernia. 11th Annual Academic Surgical Congress. Jacksonville, Florida. February 2-4, 2016.
126. Eguia A, Freemyer B, Pham DH, Hamilton EC, **Tsao K**, Austin MT. An Evaluation of eHealth Utilization in Pediatric Surgery – What is the Parent’s Perspective? 11th Annual Academic Surgical. Jacksonville, Florida. February 2-4, 2016.
127. Mueck KM, Putnam LR, Anderson KT, Lally KP, **Tsao K**, Kao LS. Does Compliance with Antibiotic Prophylaxis for Pediatric Simple Appendicitis Matter? Society for Infection Disease.
128. Putnam LR, Anderson KT, **Tsao K**, Lally KP, Kawaguchi AL. The Impact of Cardiac Risk Factors on Outcomes for Children Undergoing a Ladd Procedure Pacific Association of Pediatric Surgeons. Kauai, HI; April 24-28, 2016.
129. Anderson KT, Putnam LR, Kao LS, Austin MT, Lally KP, **Tsao K**. Buttons, Balloons, and Bounce Backs: Frequent Readmissions after Gastrostomy Tube Placement. Pacific Association of Pediatric Surgeons. Kauai, HI; April 24-28, 2016.
130. Anderson KT, Putnam LR, Kao LS, Austin MT, Lally KP, **Tsao K**. Failing to Rescue? Pre-operative Characteristics Contribute More to Mortality in Pediatric Surgical Patients. Pacific Association of Pediatric Surgeons. Kauai, HI; April 24-28, 2016.
131. Anderson KT, Greenfield S, Putnam LR, Hamilton EC, Kawaguchi AL, Austin MT, Kao LK, John SD, Lally KP, **Tsao K**. Don’t forget the dose: Improving computed tomography dosing in pediatric appendicitis. Pacific Association of Pediatric Surgeons. Kauai, HI; April 24-28, 2016.

132. Hamilton EC, Rivera P, Lazar D, **Tsao K**, Cox CS, Austin MT. Extracorporeal Membrane Oxygenation for Severe Pediatric Tracheobronchial Injuries. Pacific Association of Pediatric Surgeons. Kauai, HI; April 24-28, 2016. Congress. Jacksonville, Florida. February 2-4, 2016.
133. Putnam LR, Harting MT, **Tsao K**, Morini F, Lally PA, Lally KP. Defect size predicts morbidity at discharge for infants with congenital diaphragmatic hernia. American Pediatric Surgical Association. 47th Annual Meeting. San Diego, CA; May 14-17, 2016.
134. Putnam LR, Ostavar-Kermani TG, Le Blanc A, Anderson KT, Holzmann-Pazgal G, Lally KP, **Tsao K**. Surgical Site Infection Reporting: More than meets the agar. American Pediatric Surgical Association. 47th Annual Meeting. San Diego, CA; May 14-17, 2016.
135. Harting MT, Hollinger L, **Tsao K**, Wilson JM, Putnam LR, Lally PA, Miller CM, Lally KP. Aggressive Surgical Management of Congenital Diaphragmatic Hernia – Worth the Effort? American Pediatric Surgical Association. 47th Annual Meeting. San Diego, CA; May 14-17, 2016.
136. Anderson KT, Putnam LR, Caldwell KM, Hildebrandt AA, Covey SE, Diffley MB, Kawaguchi AL, Austin MT, Lally KP, **Tsao K**. Surgical Safety Checklists: A Challenging yet Effective Investment. Eighteenth Annual National Patient Safety Foundation Congress. Scottsdale, AZ; May 23-26, 2016.
137. Fuller M, Tatevian N, Bhattacharjee M, **Tsao K**, Mustafa MM and Brown RE. Undifferentiated Embryonal Sarcoma of the Liver: Morphoproteomics Confirms EZH2 and SIRT1 Pathways with Pathogenetic and Therapeutic Implications. Association of Clinical Scientists 136th Annual Meeting. Little Rock, Arkansas; May 4-7, 2016.
138. Anderson KT, Putnam LR, Caldwell KM, Hildebrandt AA, Covey SE, Diffley MB, Kawaguchi AL, Austin MT, Lally KP, **Tsao K**. Surgical Safety Checklists: A Challenging yet Effective Investment. American College of Surgeons – NSQIP Annual Conference, San Diego, CA; July 16-19, 2016.
139. Anderson KT, Putnam LR, Kao LS, Austin MT, Lally KP, **Tsao K**. Buttons, Balloons, and Bounce Backs: Frequent Readmissions after Gastrostomy Tube Placement. American College of Surgeons – NSQIP Annual Conference, San Diego, CA; July 16-19, 2016.

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193. Ferguson DM, **Tsao K**. Perception of postoperative pain management after opioid reduction program in the pediatric surgery patients. American Pediatric Surgical Association Annual Meeting. Boston, MA. March 1-014, 2019.
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195. Ferguson DM, Ferrante AB, Orr HA, Bartz-Kurycki MA, Anderson KT, Curbo BS, Parker TD, Kawaguchi AL, Austin MT, Chang ML. **Tsao K**. Variability of Antimicrobial Utilization in the Setting of a Pediatric Appendicitis Clinical Practice Guideline. Pacific Association of Pediatric Surgeons. Christchurch, New Zealand. March 1-014, 2019.
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199. Ferguson DM, Chica JK, Rodean J, Bartz-Kurycki MA, Owusu-Agyemang P, **Tsao K**, Austin MT. Racial and Ethnic Disparities in the use of Epidural Analgesia in Children undergoing Major Abdominal Surgery. American Pediatric Surgical Association. Boston, MA. May19-22, 2019.
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202. Ferguson DM, **Tsao K**. Postoperative White Blood Cell Count is an Independent Predictor of Intra-abdominal Abscess in Complicated Appendicitis. Scientific Forum. American College of Surgeon Clinical Congress. San Francisco, CA. October 27-31, 2019. (accepted)
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Refereed Original Abstracts (pending):

1. Ordonez AL, Ramarkishnan A, Benajmin RH, Mitchell LE, **Tsao K**, Johnson A, Langlois PH, Swatz MD, Agopian AJ. Gastroschisis mortality by mode of delivery. International Clearinghouse for Birth Defects Surveillance and Research. Prague, Czechoslovakia. September 2018. (submitted)
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3. Thomas EJ, Kilcullen MP, Bisbey TM, Ottosen MJ, **Tsao K**, Salas E. A New Evidence-Based Safety Culture Framework for Healthcare. Academy Health (submitted).

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Refereed Original Articles in Journals (pending):

1. Kawaguchi AL, Jain R, Hebballi NB, Pham DH, Kao LS, Lally KP, Tsao K. Using a Second Stakeholder-Driven Variance Reporting System Improves Pediatric Perioperative Safety. *The Joint Commission Journal on Quality and Patient Safety* (submitted)

2. Agopian AJ, Lopez A, **Tsao K**, Johnson A, Langlois PH, Swartz MD, Mitchell LE. Do Cesarean section deliveries reduce mortality risk among neonates with spina bifida? (pending)
3. Ordonez AL, Ramarkishnan A, Benajmin RH, Mitchell LE, **Tsao K**, Johnson A, Langlois PH, Swartz MD, Agopian AJ. Mode of delivery and mortality among neonates with gastroschisis. Paediatric and Perinatal Epidemiology. (pending)
4. Bartz-Kurycki MA, Anderson KT, Pham DH, Hebballi NB, Thomas EJ, Matuszczak ME, Eichenwald EC, Kao LS, Lally KP, **Tsao K**. 200 Consecutive Surgeries Performed in the Neonatal Intensive Care Unit: A Mixed Methods Study of Errors and Adverse Events. Journal of Pediatric Surgery (submitted)
5. Bisby T, Thomas EC, Ottosen M, Tsao K, Salas E. An Integrated Framework for Safety Culture: A Review and Evidence-based Propositions. Organizational Psychology Review. (submitted)
6. Anderson KT, Bartz-Kurycki M, Wythe, SN, Garwood, GM, Martin R, Gutierrez, R., Supak, DN, Kawaguchi AL, Austin MT, **Tsao K**. Hurry Up and Wait: Longer Pre-Incision Times with Lower Adherence to the Surgical Safety Checklist. Pediatric Quality and Safety. (accepted)
7. Anderson KT, Bartz-Kurycki, MA, Matuszczak, M, Ekeoduru, RA, Clary, J, Serrales, D, Kawaguchi AL, Kao, LS, Lally KP, **Tsao K**. Thinking Outside the (Check)Box: Evaluating Sustainable Surgical Safety Checklist Performance. APSA/JPS- awaiting decision
8. Anderson, KT, Putnam, LR, Bartz-Kurycki, MA, Hamilton, EC, Yafi, M, Pedroza, C, Austin, MT, Kawaguchi, AL, Kao, LS, Lally, KP, **Tsao, K**. Povidone-Iodine Irrigation for Pediatric Perforated Appendicitis May Be Protective: A Bayesian Randomized Controlled Trial. Annals of Surgery. (accepted)
9. Ferguson DM, Lally PA, Tsao K, Harting MT, Fisher KA, Fouad D, Hawkins MJ, Kays DW, Levin DE, Lindeman JA, Luco M, Maroszyńska IA, McGahren ED, McLean SE, Burgos CM, Russell RT, Schoel LJ, Villalona GA, Lally KP. Hepatopulmonary Fusion: A Rare Variant of Congenital Diaphragmatic Hernia. Journal of Pediatric Surgery. (submitted)

Refereed Original Articles in Multimedia:

1. **Tsao K.** “Umbilical Hernia and Umbilical Hernia Repair – general surgery resident”. multimedia module for the American Board of Surgery Pediatric SCORE curriculum, on line 2010. www.surgicalcore.org
2. **Tsao K.** “Umbilical Hernia – pediatric surgery fellow”, multimedia module for the American Board of Surgery Pediatric SCORE curriculum, on line 2014. www.surgicalcore.org
3. Anderson, KT, **Tsao K.** BMJ Best Practices. Evaluation of abdominal pain in children. <http://bestpractice.bmj.com/best-practice/verify-user-north-american-access.html>.
4. Anderson, KT, **Tsao K.** Measuring Safety Culture. Not a Textbook (NAT), American Pediatric Surgical Association. 2017.

Invited Articles in Journals:

1. **Tsao K,** Lee H. Postnatal Minimal Access Surgery for Birth Defects. *Pediatric Endosurgery & Innovative Techniques*, Vol. 6, No. 2: 131-141, Jun 2002
2. **Tsao K,** Albanese CT. Prenatal Therapy for Obstructive Uropathy. *World Journal of Surgery*, Jan 27 (1): 62-7, 2003.
3. **Tsao K,** Albanese CT. Harrison MR. Prenatal Therapy for Thoracic and Mediastinal Lesions. *World Journal of Surgery*, Jan 27 (1): 77-83, 2003.
4. **Tsao K,** Lally KP. The Congenital Diaphragmatic Hernia Group: An International Registry. *Seminars in Pediatric Surgery*, May, 17(2):90-97; 2008.
5. Shah S, Allison ND, **Tsao K.** Evaluation of acute abdominal pain in children. *BMJ Best Practice* 2009; www.bestpractice.bmj.com.
6. Kao LS, **Tsao K.** Commentary: Serum Markers in Acute Appendicitis. *J Surg Res.* 2010 Nov;164(1):69-71.
7. **Tsao K,** Lally KP. Surgical Management of the Newborn with Congenital Diaphragmatic Hernia. *Fetal Diagn Ther.* 2011;29(1):46-54.
8. **Tsao K.** Pediatric Appendectomy. *Current Problems in Surgery.* 2012.
9. **Tsao K,** Lally KP. Innovations in the surgical management of congenital diaphragmatic hernia. *Clinics in Perinatology.* Vol. 39, No. 2, June 2012.
10. Wray CJ, Kao LS, Millas SG, **Tsao K,** Ko TC. Acute appendicitis: controversies in diagnosis and management. *Curr Probl Surg,* 2013 vol. 50(2) pp. 54-86

11. **Tsao K**, Browne MB. Culture of safety: A foundation for patient care. *Semin Pediatr Surg*. 2015 Dec;24(6):283-7. doi: 10.1053/j.sempedsurg.2015.08.005.
12. Moise KJ, **Tsao K**, Papanna RM, Bebbington MW. Fetoscopic Repair of Meningomyelocele. *Obstet Gynecol*. 2015 Sep;126(3):674. doi: 10.1097/AOG.0000000000001020. PMID: 26287774
13. **Tsao K**. Surgical Wound Misclassification: A Multicenter Evaluation: In Reply to Dodds and Dodds. *J Am Coll Surg*. 2015 Sep;221(3):781-2. doi: 10.1016/j.jamcollsurg.2015.06.005. PMID: 26296687
14. Anderson KT, Appelbaum R, Bartz-Kurycki MA, **Tsao K**, Browne M. Advances in perioperative quality and safety. *Semin Pediatr Surg*. 2018 Apr;27(2):92-101. doi: 10.1053/j.sempedsurg.2018.02.006. Epub 2018 Feb 7. PMID: 29548358
15. **Tsao K**, Johnson A. Fetal Occlusion for Congenital Diaphragmatic Hernia. *Seminars in Perinatology*. August 2019.
16. **Tsao K**. The Rebirth of Fetal Surgery. *Seminars in Pediatric Surgery*. Guest Editor. August 2019.

Chapters:

1. **Tsao K**. Ch. 33: Inflammatory Bowel Disease. *The Mont Reid Surgical Handbook*, 5th edition; Fischer DR and Kelly BS (eds); Mosby Publishing Inc., Philadelphia, PA. 2005, p. 399-409.
2. **Tsao K**, Lally KP. Congenital Diaphragmatic Hernia and Eventration. *Pediatric Surgery*, 5th Edition; Holcomb GW and Murphy JP (eds); Elsevier Publishing, Philadelphia, PA 2010, p. 304-21.
3. **Tsao K**, Lally KP. Congenital Diaphragmatic Hernia and Eventration. *Pediatric Surgery*, 6th Edition; Holcomb GW and Murphy JP (eds); Elsevier Publishing, Philadelphia, PA. 2014, p. 315-340.
4. Harting MT, **Tsao K**. Chapter 69: Congenital Diaphragmatic Hernia. *Fundamentals of Pediatric Surgery*. 2nd Edition; Mattei P, Nichol PF, Gow KW, Rollins MD, Muratore CS (eds);
5. Putnam LR, **Tsao K**. Chapter 10: Tissue Engineering and Cell-based Therapeutics for Repair of Myelomeningocele. *Cellular Therapy for Neurological Injury*; Cox CS (ed);
6. **Tsao K**, Hirose S, Farmer DL. Fetal Therapy. *Pediatric Surgery*, 7th Edition; Holcomb GW and Murphy JP (eds); Elsevier Publishing, Philadelphia, PA 2010.

7. Ferguson DM, Anderson KT, **Tsao K.** (2019) Diagnostic Imaging for Pediatric Appendicitis. In: Hunter C. (eds) Controversies in Pediatric Appendicitis. Springer, Cham
8. Arshad SA, **Tsao K.** (2019) Fetal Surgery. In: Lacher, St. Peter, Zani (eds) Pearls and Tricks in Pediatric Surgery. Spring Nature Publishing

OTHER PROFESSIONAL COMMUNICATIONS:

Presentations:

1. Complications of Monochorionic Twinning: Spectrum of Disorders and Treatment. International Pediatric Endosurgical Group, Brisbane, Australia; March 2001.
2. Selective Reduction of Acardiac/Acephalic Twin by Radiofrequency Ablation. International Society for Twin Studies, 10th International Congress on Twin Studies, Imperial College, London; July 2001.
3. Liver Regeneration: Angiogenesis and Homeobox genes. Stanford University Surgical Research Seminar, Palo Alto, CA; February 2002.
4. Selective Reduction of Acardiac Twin by Radiofrequency Ablation. Kaiser Permanente San Francisco Prenatal Seminar, San Francisco, CA; February 2002.
5. Increased Expression of Angiogenesis genes during Liver Regeneration. University of California, San Francisco Department of Surgery, Resident Research Day San Francisco, CA; March 2002.
6. Extrapleural Thoracoscopic Repair of Esophageal Atresia with Tracheo-Esophageal Fistula. American Pediatric Surgical Association, Phoenix, AZ; May 2002.
7. Long term follow-up after portoenterostomy for Biliary Atresia. Pacific Association of Pediatric Surgery, San Diego, CA; May 2002.
8. VEGF promotes the Expression of Pro-angiogenic Hox D3 in cultured sinusoidal endothelial cells. Society of University Surgeons, Houston, TX; February 2003.
9. Liver Regeneration: Angiogenesis and Homeobox genes. Kempczinski Vascular Research Symposium, University of Cincinnati, Cincinnati, OH; February 2003.
10. Congenital Diaphragmatic Hernia: An evolution in Fetal Therapy. General Surgery Grand Rounds Department of Surgery, University of Cincinnati, Cincinnati, OH; November 2004.

11. Colon Cancer and You: Screening and Treatment. West Chester Chamber of Commerce, West Chester, OH; December 2004.
12. Prospective Randomized Trials in Pediatric Surgery. Kansas City Surgical Society, Kansas City, MO; January 2006.
13. Adhesive Small Bowel Obstruction after Appendectomy in Children: Comparison between the Laparoscopic and Open Approach. American Academy of Pediatrics. Atlanta, GA; October 2006.
14. Thoracoscopy for Malignancy in Children. Society of American Gastrointestinal and Endoscopic Surgeons. Las Vegas, NV; April 2007.
15. Laparoscopic Esophagomyotomy with Anterior Fundoplication. American Pediatric Surgical Association. Orlando, Florida; May 2007.
16. Once-a-day Dosing of Ceftriaxone and Metronidazole *versus* Standard Triple Antibiotic Regimen for Perforated Appendicitis in Children: *A Prospective Randomized Trial*. Kansas City Surgical Society. Kansas City, MO; May 2007.
17. Fetal Therapy for Congenital Diaphragmatic Hernia: Lessons Learned. Children's Mercy Hospital Grand Rounds. Kansas City, MO; June 2007.
18. Utilization of Thoracoscopy in Infants and Children. International Pediatric Endosurgical Group. Bueno Ares, Argentina; September 2007.
19. Laparoscopic Gastrostomy. American College of Surgeons Surgical Forum. Video session. New Orleans, LA; October 2007.
20. Laparoscopic Thal Fundoplication. American College of Surgeons Surgical Forum. Video session. New Orleans, LA; October 2007.
21. Post-operative Antibiotic Regimen for Perforated Appendicitis in Children: A Prospective Randomized Trial. American Academy of Pediatrics. San Francisco, CA; October 2007.
22. Management of Pediatric Appendicitis in the CT Era. Academic Surgical Congress. Huntington Beach, CA; February 2008.
23. Fetal Surgery. Grand Rounds - Department of Obstetrics, Gynecology and Reproductive Sciences, University of Texas Medical School at Houston. Houston, TX; May 2008.
24. Modification of the Nuss procedure with a small sub-xiphoid incision. American Pediatric Surgical Association. Phoenix, Arizona; May 2008.

25. Congenital Diaphragmatic Hernia in Preterm Infants: A Report from the Congenital Diaphragmatic Hernia Group. Academic Surgical Congress, San Antonio, TX; February 2010.
26. Complications of implanted central venous access devices in pediatric cancer patients – An under-appreciated high risk procedure. Pacific Association of Pediatric Surgeons, Kobe, Japan; May 2010.
27. Quality Improvement in Pediatric Appendicitis. Texas Surgical Collaborative. Houston, TX; July 2011.
28. Pediatric OR Safety Initiatives. Grand Rounds - Department of Anesthesiology, University of Texas Medical School at Houston. Houston, TX; January, 2012.
29. Current Application of the EXIT Procedure. Updates in Diagnosis, Treatment, and Care for Complex Fetal Conditions Seminar. Children’s Memorial Hermann Hospital, Austin, TX; April, 2012.
30. Evaluation of non-repair rates of congenital diaphragmatic hernia. Pacific Association of Pediatric Surgeons. Shanghai, China; June 2012.
31. Quality improvement in the pediatric operating rooms. Memorial Hermann Hospital System Shared Governance Symposium. June 2012.
32. Fetal surgery for spina bifida. Memorial Hermann 6th Annual Perianesthesia Nursing Seminar. March 2, 2013.
33. Current Status of Fetal Surgery: In Utero Repair of Spina Bifida. Obstetric Nursing, 30th Anniversary Conference. New Orleans, LA. April 22, 2013.
34. Errors and adverse events in the setting of neonatal surgery performed in the neonatal intensive care unit. American Pediatric Surgical Association Foundation. Marco Island, FL. May 2, 2013.
35. Continued Challenges but Promising Insights into Surgical Safety Checklist Implementation. University of Texas System: Building the Bridge: Public Policy and Public Health Effect Health Care Reform. San Antonio, TX; September 26, 2013.
36. Changing the Safety Culture in the Pediatric Operating Room. AORN of Greater Houston, 2013 Fall Conference. Houston, TX; October 5, 2013.
37. Doing what surgeons do best: Academic Surgical Careers in Quality and Safety Grand Rounds - Department of Surgery, University of Texas Medical School at Houston. Houston, TX; May 15, 2014.

38. Texas Fetal Center: Integrated care before, during, and after birth. Grand Rounds - Department of Pediatrics, University of Texas Medical School at Houston. Houston, TX; July 1, 2014.
39. Surgical Safety Checklists and Patient Safety Culture. American College of Surgeons Quality and Safety Conference. New York, New York; July 21-24, 2017.
40. Pediatric Minimally Invasive Surgery: The Good, The Bad, The Not-So-Good. Grand Rounds – The Woman’s Hospital of Texas. Houston, TX; September 18, 2015.
41. Updates on chest wall deformities. 16th Annual Sports Medicine Update. Memorial Hermann Ironman Sports Medicine Institute. Katy, TX; June 13, 2017.
42. Safety Culture – A Foundation in Patient Safety. Grand Rounds - Department of Surgery , University of Texas McGovern Medical School at Houston. Houston, TX; October 25, 2018.
43. Do as I say: Taking control of patient safety culture. American College of Surgeons Quality and Safety Conference. Washington DC; July 22, 2019.

Visiting Professorships:

1. Current status of fetal surgery. Department of Pediatrics Grand Rounds, National Taiwan University Medical School. May 2010.
2. Pediatric Minimally Invasive Surgery: possible applications to veterinary medicine. National Taiwan University School of Veterinary Medicine. May 2010.
3. Open Fetal Surgery for Myelomeningocele. Shanghai Children’s Medical Center. June 2012.
4. Advances in Fetal Surgery: Open repair of myelomeningocele. Wolfson’s Children’s Hospital, University of Florida – Jacksonville, Jacksonville, FL. March 2013.
5. More than checking a box: Surgical Safety Checklists as a Foundation for Patient Safety. University of California – Irvine School of Medicine – Irvine, California. October 27, 2016.
6. Fetal surgery for spina bifida: A paradigm for modern fetal centers. Children’s Hospital of Orange County – Orange, California. October 26, 2016.
7. Updated in Fetal surgery for spina bifida. Children’s Hospital & Medical Center – Omaha, Nebraska. December 14, 2017.

8. The Evolving Field of Fetal Surgery. Riley Children's Hospital, Indiana University School of Medicine. November 7, 2018.