

CURRICULUM VITAE

NAME:

Matthew Tihen Harting, MD, MS, FAAP, FACS

PRESENT TITLE:

Associate Professor

Medical Director, Pediatric Extracorporeal Life Support (ECLS or ECMO) Program

Medical Director, Pediatric Surgery Telemedicine Program

Medical Director of Telehealth, UT Physicians

Co-Director, High-risk, Multi-disciplinary Clinic for CDH within the Comprehensive Center for CDH Care

WORK ADDRESS:

McGovern Medical School at the University of Texas Health Science Center at Houston

Department of Pediatric Surgery

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Houston, Texas 77030

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BIRTHDATE:

September 23, 1976

CITIZENSHIP:

United States of America

UNDERGRADUATE EDUCATION:

08/1995 – 06/1999 University of Texas at Austin, Austin, TX

Bachelor of Arts, Microbiology

Dean's Scholars Honors Program, College of Natural Sciences

GRADUATE EDUCATION:

08/1999 – 06/2003 University of Texas McGovern Medical School, Houston, Houston, TX

Doctor of Medicine

07/2003 – 06/2004 University of Texas, Schools of Medicine and Public Health, Houston, TX

Master of Science, Clinical Research

POSTGRADUATE TRAINING:

07/2004 – 06/2008 University of Texas Health Science Center Hospitals, Houston, TX

Resident, PGY I & II; Research Fellow, Department of Surgery

07/2008 – 06/2010 University of Michigan, Ann Arbor, MI

Resident, PGY III-IV, Department of Surgery

07/2010 – 06/2011 University of Michigan, Ann Arbor, MI

Administrative Chief Resident, Department of Surgery

07/2011 – 06/2013 University of Washington, Seattle Children's Hospital, Seattle, WA

Fellow, Pediatric General & Thoracic Surgery

07/2013 – 06/2014 University of Texas, Memorial Hermann Hospital, Houston, TX

Fellow, Surgical Critical Care

ACADEMIC & ADMINISTRATIVE APPOINTMENTS:

2013 – 2014	Staff Physician (Surgical Critical Care Fellow), Department of Pediatric Surgery, The University of Texas McGovern Medical School, Houston, TX
2014 – 2020	Assistant Professor, Department of Pediatric Surgery, The University of Texas McGovern Medical School, Houston, TX
2020 – Present	Associate Professor, Department of Pediatric Surgery, The University of Texas McGovern Medical School, Houston, TX
2015 – Present	Medical Director, Pediatric ECMO Program
2015 – Present	Medical Director, Pediatric Surgery Telemedicine Program
2016 – Present	Co-Director, High-risk, multi-Disciplinary Clinic for CDH
2020 – Present	Medical Director of Telehealth, UT Physicians
2020 – Present	Surgical Director of ECLS, The Women's Hospital of Texas

HOSPITAL APPOINTMENTS:

Memorial Hermann/Children's Memorial Hermann Hospital	2013-Present
University of Texas MD Anderson Cancer Center	2013-Present
Memorial Hermann Southwest	2013-Present
Memorial Hermann Memorial City	2013-Present
Memorial Hermann The Woodlands Hospital	2015-Present
Memorial Hermann Katy Hospital	2016-Present
The Woman's Hospital of Texas & Fannin Surgicare Center	2015-Present
Lyndon B. Johnson General Hospital, Harris County Hospital District	2013-Present

LICENSURE:

State of Texas (P5988)	2013 – current
State of Washington	2011 – 2013
State of Michigan	2008 – 2011

BOARD CERTIFICATIONS:

American Board of Surgery Certification in Surgery	2012-present
American Board of Surgery Certification in Pediatric Surgery	2014-present
American Board of Surgery Certification in Surgical Critical Care	2014-present

OTHER CERTIFICATIONS:

Advanced Cardiac Life Support (ACLS)	7/2003-7/2021
Pediatric Advanced Life Support (PALS)	7/2003-5/2021
Advanced Trauma Life Support (ATLS)	7/2003-7/2023
Basic Life Support (BLS)	7/2003-5/2021
Fundamentals of Laparoscopic Surgery (FLS) #10348622789	2011-present
Advanced Surgical Skills for Exposure in Trauma (ASSET)	2013-present
Basic Endovascular Skills in Trauma (BEST/REBOA) Certification	2017-present

PROFESSIONAL ORGANIZATIONS:

American College of Surgeons - Fellow
American Academy of Pediatrics – Fellow
American Thoracic Society - Member
International Society for Stem Cell Research – Associate Member
Texas Medical Association – Member
Society of Critical Care Medicine – Member
Eastern Association for the Surgery of Trauma – Member
American Pediatric Surgical Association (APSA) – Member
Association of Academic Surgery (AAS) – Member

HONORS AND AWARDS:

- 1998 – 1999 College Scholar Award, College of Natural Sciences
University of Texas at Austin
- 2006 T15 Adult Stem Cell Training Grant Award recipient
National Institute of Health
- 2006 – 2008 T32 National Trauma Research Service Award recipient
National Institute of Health
- 2006 Alpha Omega Alpha Honor Medical Society
Delta Chapter, University of Texas McGovern Medical School
- 2009, 2011 Michigan Alumni Society Bronze Beeper Award, University of Michigan
Awarded for Outstanding resident teaching
- 2009 Frederick A. Collier Clinical Tour Award, University of Michigan
Educational, clinical, and research advancement award
- 2009, 2011 Arnold G. Coran Teaching Award, University of Michigan
The Annual Surgery Award for Excellence in Teaching – Senior Resident
- 2010 Michigan Chapter – American College of Surgeons
Residents Surgeon Competition, Committee on Trauma Clinical Award
- 2011 Michigan Alumni Society Golden Beeper Award, University of Michigan
Awarded to the most outstanding resident teacher – all disciplines
- 2016-2020 Dean's Teaching Excellence Award, University of Texas McGovern Medical School
- 2016-2020 Houstonia Top Doctor
- 2017-2020 Texas Monthly, Top Doctors in Texas (*Super Doctors*®), *Rising Stars*SM

EDITORIAL POSITIONS:

- 2008 – 2013 Reviewer, Stem Cells and Development
- 2008 – 2013 Reviewer, European Journal of Pediatrics
- 2010 – 2013 Reviewer, Tissue Engineering
- 2010 – 2013 Reviewer, Expert Reviews of Anticancer Therapy
- 2011 – Present Reviewer, Annals of Neurology
- 2013 – Present Reviewer, Tissue & Cell
- 2014 – Present Reviewer, World Journal of Pediatrics
- 2014 – Present Reviewer, Cytokine
- 2014 – Present Reviewer, Cytotherapy – The Journal of Cell Therapy
- 2014 – Present Reviewer, Journal of Pediatric Surgery
- 2014 – Present Reviewer, American College of Surgeons
- 2016 – Present Reviewer, Journal of Pediatrics
- 2016 – Present Reviewer, Archives of Disease in Childhood
- 2015 – Present Reviewer, Neonatology
- 2015 – Present Reviewer, American Journal of Perinatology
- 2016 – Present Reviewer, Journal of Laparoendoscopic and Advanced Surgical Techniques
- 2016 – Present Reviewer, Pediatrics
- 2016 – Present Reviewer, Annals of Surgery
- 2018 – Present Reviewer, Tissue and Cell
- 2018 – Present Reviewer, PLoS One
- 2018 – Present Reviewer, Am J of Physiology: Regulatory, Integrative & Comparative Physiology
- 2019 – Present Reviewer, Journal of Perinatology
- 2019 – Present Reviewer, The American Journal of Surgery
- 2019 – Present Reviewer, Frontiers in Pediatrics

SERVICE ON MCGOVERN MEDICAL SCHOOL DEPARTMENT COMMITTEES:

- 2014 – Present Member, Program Evaluation Committee, Department of Pediatric Surgery

2014 – Present Member, Clinical Competency Committee, Department of Surgery
2015 – Present Member, Fetal Center Ethics Committee, Department of Pediatric Surgery

SERVICE ON MCGOVERN MEDICAL SCHOOL AT UT HEALTH COMMITTEES:

2014 – Present Interviewer, Admission Committee
2014 – Present Member, Alumni Association Board
2015 – Present Alumni Student Life Advisory Committee

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Member of Scholarship Oversight Committee for Sowmya A. Kallur, MD (2014-2016)
Member of Scholarship Oversight Committee for Tin Nguyen, MD (2016-2018)
Member of Thesis Committee, Rice University – Madeline Monroe (2017-2020)
Member of Thesis Committee, GSBS at UTHealth – Kaavya Giridhar (2017-2020)

CURRENT TEACHING RESPONSIBILITIES:

2015 – Present Director, Medical Student Clerkship in Pediatric Surgery
2016 – Present Director/coordinator, case series fellowship-level lectures, Pediatric Surgery

MENTORING ACTIVITIES:

Undergraduate Students

2015 *Henry Bair*, Rice University; Project: Pulmonary artery abnormalities in Congenital Diaphragmatic Hernia (CDH)-associated pulmonary hypertension
2017-2019 *Lauren Hart*, University of Texas at Austin

Medical Students

2016 *Sushanth Gouni*; Project: Effects of mesenchymal stem-cell derived exosomes on pulmonary hypertension associated molecular pathways in nitrofen treated pulmonary artery smooth muscle cells
2018 *Chase Miller*; Project: The morbidity of survivorship in congenital diaphragmatic hernia
2020 *Elizabeth Popp*; Project: The morbidity of survivorship in congenital diaphragmatic hernia – Diaphragmatic hernia recurrence

Surgical Residents

2014-2016 *Luke Putnam*; Projects: Congenital diaphragmatic hernia defect size and infant morbidity at discharge, Minimally-invasive versus open congenital diaphragmatic hernia repair, Factors associated with early recurrence after CDH repair
Current position: Anesthesiology
2018-2019 *Louis Carrillo*; Project: A Morphometric and Physiological Modeling of Endovascular Occlusion in Pediatric Trauma Patients
2019-2020 *Dalya Ferguson*; Projects: Hepatopulmonary fusion in CDH, Weight-based outcomes in CDH, CDH-PH
2019-2021 *Vikas Gupta*, General Surgery, Southwestern Medical School; Projects: CDH-associated pulmonary hypertension, CDH-associated hypoxia and inflammation of the pulmonary vasculature, ECLS and Vaping-associated pulmonary injury

Pediatric Surgery Fellows

2016 *Laura Hollinger*; Project: Long-term follow-up of CDH
2020 *Megan Coughlin*; Project: Pulmonary sequestration in CDH

CURRENT CLINICAL SERVICE RESPONSIBILITIES:

- 2014 – Present Management of pediatric surgical patients at Children’s Memorial Hermann Hospital and The Women’s Hospital of Texas (15-90 hrs/wk)
- 2014 – Present Weekly clinic, pediatric surgery patients, UT Physicians (5-7 hrs/wk)
- 2016 – Present Monthly clinic, High-risk multi-disciplinary clinic for CDH, UT Physicians (6-10 hrs/mon)

CURRENT GRANT SUPPORT:

- 2015 – 2019 University of Texas McGovern Medical School
Center for Clinical and Translational Sciences (CCTS) Scholar Award (5KL2-TR000370-10)
Human Mesenchymal Stromal Cell-Derived Exosome Therapy for Congenital Diaphragmatic Hernia-Associated Pulmonary Hypertension (\$345,000). Principal Investigator.
- 2017 – 2019 University of Texas McGovern Medical School and Rice University
Joint Grant Program, Women’s and Children’s Health
Extracellular vesicles for the extracellular matrix: Identifying and influencing the pathologic pulmonary vasculature in CDH (\$60,000). Co-Principal Investigator.
- 2018 – 2020 University of Texas McGovern Medical School
Learning Healthcare Scholars Award
Cost-Effectiveness of an Integrated Telemedicine-Home Visitation Program for Children with Medical Complexity: A Randomized Quality Improvement (QI) Study (\$100,000). Co-Investigator.
- 2019 – 2020 Men of Distinction Foundation
Medical Beneficiary for Pediatric Investigation Award
Umbilical cord blood cellular treatment and NuvOx (DDFPe) nanotechnology for congenital diaphragmatic hernia-associated pulmonary hypertension – Preclinical investigation of two novel therapies (\$100,000). Principal Investigator.

PAST GRANT SUPPORT:

- 2006 – 2008 National Institutes of Health, Houston, TX
T32 Trauma Research Fellow; Award #: T32 GM008792-06
Cellular therapy for traumatic brain injury (\$114,000)
- 2016 – 2017 University of Texas McGovern Medical School
The Pulmonary Center of Excellence, Pulmonary Discovery Award Program
Induced Pluripotent Stem (iPS) Cell-Derived Lung Progenitor Cells as Therapy for Lung Injury and Surfactant Protein Disorders (\$100,000). Co-Investigator.

PUBLICATIONS:

PEER-REVIEWED ORIGINAL INVESTIGATION:

1. Guelev V, Harting MT, Lokey RS, and Iverson BL. **Altered sequence-specificity identified from a library of DNA-binding small molecules.** *Chemistry and Biology* 7(1):1-8, 2000. PMID: 10662682
2. Murr M, Harting MT, Guelev V, Ren J, Chaires J, and Iverson B. **An Octakis-intercalating molecule.** *Bioorganic and Medicinal Chemistry* 9(5):1141-8, 2001. PMID: 11377172
3. Kar B, Delgado RM 3rd, Frazier OH, Gregoric ID, Harting MT, Wadia Y, Myers TJ, Moser RD, Freund J. **The effect of LVAD aortic outflow-graft placement on hemodynamics and flow: Implantation technique and computer flow modeling.** *Tex Heart Inst J* 32(3):294-8, 2005. PMID: 16392208
4. Kar B, Delgado R, Radovancevic B, Myers T, Wadia Y, Letsou GV, Riaz I, Metcalfe R, Harting MT. **Vascular thrombosis during support with continuous flow ventricular assist devices: correlation with computerized flow simulations.** *Congest Heart Fail* 11(4):182-7, 2005. PMID: 16106119

5. Gregoric ID, Harting MT, Koshir R, Patel VS, Ksela J, Messner GN, Frazier OH. **Percutaneous tracheostomy after mechanical ventricular assist device implantation.** *J Heart Lung Transplant* 24(10):1513-6, 2005. PMID: 16210123
6. Harting MT, Blakely ML, Jaffe N, Cox CS Jr, Hayes-Jordan A, Benjamin RS, Raymond AK, Andrassy RJ, Lally KP. **Long-term survival after aggressive resection of pulmonary metastases among children and adolescents with osteosarcoma.** *J Pedi Surg* 41(1): 194-9, 2006. PMID: 16410132
7. Harting MT, Jimenez F, Pati S, Baumgartner J, Cox CS. **Immunophenotype characterization of rat mesenchymal stromal cells.** *Cytotherapy* 10(3): 243-53, 2008. PMID: 18418770
8. Harting MT, Blakely ML, Cox CS, Lantin-Hermoso R, Andrassy RJ, Lally KP. **Acute hemodynamic decompensation following patent ductus arteriosus ligation in premature infants.** *J Invest Surg* 21(3): 133-8, 2008. PMID: 18569433
9. Harting MT, Jimenez F, Kozar RA, Moore FA, Mercer DW, Hunter RL, Cox CS, Gonzalez EA. **Effects of Poloxamer 188 on human PMN cells.** *Surgery* 144(2): 198-203, 2008. PMID: 18656626
10. Harting MT, Jimenez F, Cox CS. **The pulmonary first-pass effect, xenotransplantation, and translation to clinical trials – a commentary.** *Brain* 131: e100- 101, 2008. PMID: 18669489
11. Harting MT, Jimenez F, Adams SD, Mercer DW, Cox CS. **Acute, regional inflammatory response after traumatic brain injury: Implications for cellular therapy.** *Surgery* 144(5):803-813, 2008. PMID: 19081024
12. Radhakrishnan RS, Radhakrishnan GL, Radhakrishnan HR, Xue H, Adams SD, Moore-Olufemi SD, Harting MT, Cox CS, Kone BC. **Pretreatment with bone morphogenetic protein-7 (BMP7) mimics ischemia preconditioning following intestinal ischemia/reperfusion injury in the intestine and liver.** *Shock* 30(5): 532-6, 2008. PMID: 18461025
13. Harting MT, Smith CT, Radhakrishnan RS, Aroom KR, Dash PK, Gill B, Cox CS. **Regional differences in cerebral edema after traumatic brain injury identified by impedance analysis.** *J Surg Res* 159(1):557-64, 2008. PMID: 19181334
14. Harting MT, Jimenez F, Cox CS. **Isolation of mesenchymal stem cells (MSCs) from green fluorescent protein positive (GFP+) transgenic rodents: the grass is not always green(er).** *Stem Cells Dev* 18(1):127-36, 2009. PMID: 18518666
15. Aroom K, Harting MT, Cox CS, Radhakrishnan RS, Smith CT, Gill B. **Bioimpedance analysis: A guide to simple design and implementation** *J Surg Res* 153(1): 23-30, 2009. PMID: 18805550
16. Harting MT, Sloan LE, Jimenez F, Baumgartner J, Cox CS. **Subacute neural stem cell therapy for traumatic brain injury.** *J Surg Res* 153(2): 188-194, 2009. PMID: 18694578
17. Fischer UM, Harting MT, Jimenez F, Monzon-Posadas WO, Xue H, Laine GA, Cox CS. **Pulmonary passage is a major obstacle for intravenous stem cell delivery: The pulmonary first-pass effect.** *Stem Cells Dev* 18(5): 683-92, 2009. PMID: 19099374
18. Harting MT, Jimenez F, Xue H, Fischer U, Baumgartner J, Dash PK, Cox CS. **Intravenous mesenchymal stem cell therapy for traumatic brain injury.** *J Neurosurg* 110(6): 1189-97, 2009. PMID: 19301973
19. Harting MT, Cox CS, Day MC, Walker P, Gee A, Brenneman MM, Grotta JC, Savitz SI. **Bone marrow-derived mononuclear cell populations in pediatric and adult patients.** *Cytotherapy* 11(4): 480-4, 2009. PMID: 19462318
20. Walker PA, Harting MT, Jimenez F, Shah SK, Pati S, Dash PK, Cox CS. **Direct intrathecal implantation of mesenchymal stromal cells leads to enhanced neuroprotection via an NFkappaB-mediated increase in Interleukin-6 production.** *Stem Cells Dev* 19(6): 867-76, 2010. PMID: 19775197
21. Harting MT, Lally KP, Andrassy RJ, Vaporciyan AA, Cox CS, Hayes- Jordan A, Blakely ML. **Age as a prognostic factor among patients with osteosarcoma: Analysis of 438 patients.** *J Cancer Res Clin Oncol* 136(4): 561-70, 2010. PMID: 19784847
22. Walker PA, Jimenez F, Gerber MH, Aroom KR, Shah SK, Harting MT, Gill BS, Savitz SI, Cox CS.

- Effect of needle diameter and flow rate on rat and human mesenchymal stromal cell characterization and viability.** *Tissue Engineering* 16(5) part C: 989-97, 2010. PMID: 20001789
23. Tsao K, Allison ND, Harting MT, Lally PA, Lally KP. **Congenital diaphragmatic hernia in the preterm infant.** *Surgery* 148(2): 404-10, 2010. PMID: 20471048
 24. Brennen M, Sharma S, Harting MT, Strong R, Cox CS Jr, Aronowski J, Grotta JC, Savitz SI. **Autologous bone marrow mononuclear cells enhance recovery after acute ischemic stroke in young and middle-aged rats.** *J Cereb Blood Flow Metab* 30(1):140-9, 2010. PMID: 19773802
 25. Cox CS, Baumgartner JE, Harting MT, Worth LL, Walker PA, Shah SK, Ewing-Cobbs L, Hasan KM, Day MC, Lee D, Jimenez F, Gee A. **Autologous bone marrow mononuclear cell therapy for severe traumatic brain injury in children.** *Neurosurgery* 68(3): 588-600, 2011. PMID: 21192274
 26. Letourneau PA, Xiao L, Harting MT, Lally KP, Cox CS Jr, et al. **Location of pulmonary metastasis in pediatric osteosarcoma is predictive of outcome.** *J Pediatr Surg*, 46(7):1333-7, 2011. PMID: 21763830
 27. Ward JL, Harting MT, Cox CS Jr, Mercer DW. **Effects of ketamine on endotoxin and traumatic brain injury induced cytokine production in the rat.** *The Journal of Trauma* 70(6):1471-9, 2011. PMID: 21817985.
 28. Pati S, Khakoo AY, Zhao J, Jimenez F, Gerber MH, Harting M, Redell JB, Grill R, Matsuo Y, Guha S, Cox CS, Reitz MS, Holcomb JB, Dash PK. **Human mesenchymal stem cells inhibit vascular permeability by modulating vascular endothelial cadherin/ β -catenin signaling.** *Stem Cells Dev* 20(1):89-101, 2011. PMID: 20446815
 29. Walker PA, Shah SK, Jimenez F, Aroom KR, Harting MT, Cox CS. **Bone marrow-derived stromal cell therapy for traumatic brain injury is neuroprotective via stimulation of non-neurologic organ systems.** *Surgery* 152(5):790-3, 2012. PMID: L 22853856
 30. Harting MT, Lally KP. **The congenital diaphragmatic hernia study group registry update.** *Semin Fetal Neonatal Med* 19(6):370-5, 2014. PMID: 25306471
 31. Savoie KB, Huang EY, Aziz SK, Blakely ML, Dassinger S, Dorale AR, Duggan EM, Harting MT, Markel TA, Moore-Olufemi SD, Shah SR, St Peter SD, Tsao K, Wyrick DL, Williams RF. **Improving gastroschisis outcomes: Does birthplace matter?** *J Pediatr Surg* 49(12):1771-5, 2014. PMID: 25487481
 32. Liao GP, Harting MT, Hetz RA, Walker PA, Shah SK, Corkins CJ, Hughes TG, Jimenez F, Kosmach SC, Day MC, Tsao K, Lee DA, Worth LL, Baumgartner JE, Cox CS Jr. **Autologous bone marrow mononuclear cells reduce therapeutic intensity for severe traumatic brain injury in children.** *Pediatr Crit Care Med* 16(3):245-55, 2015. PMID: 25581630
 33. Harting MT, DeWees JM, Vela KM, Khirallah RT. **Medical photography: current technology, evolving issues and legal perspectives.** *Int J Clin Pract*, 69(4):401-9, 2015. PMID: 25708063
 34. Liras IN, Cotton BA, Cardenas JC, Harting MT. **Prevalence and impact of admission hyperfibrinolysis in severely injured pediatric trauma patients.** *Surgery* 158(3):812-8, 2015. PMID: 26070849
 35. Liras IN, Rahbar E, Harting MT, Holcomb J, Cotton BA. **When children become adults and adults become most hypercoagulable after trauma: An assessment of admission hypercoagulability by rapid thrombelastography and venous thromboembolic risk.** *The Journal of Trauma and Acute Care Surgery* 80(5):778-82, 2016. PMID: 26886005
 36. Putnam LR, Richards MK, Sandvall BK, Hopper RA, Waldhausen J, Harting MT. **Laboratory Evaluation for Suspected Necrotizing Soft Tissue Infections in Children: A Case-Control Study.** *J Pediatr Surg* 51(6):1022-5, 2016. PMID: 27233372
 37. Putnam LR, Tsao K, Morini F, Lally PA, Miller CC, Lally KP, Harting MT. **Variability in Inhaled Nitric Oxide Use and Pulmonary Hypertension in Patients with Congenital Diaphragmatic Hernia.** The Congenital Diaphragmatic Hernia Study Group. *JAMA Pediatrics* 170(12):1188-1194, 2016. PMID: 27723858

38. Putnam LR, Harting MT, Tsao K, Morini F, Yoder BA, Luco M, Lally PA, Lally KP for the Congenital Diaphragmatic Hernia Study Group. **Congenital diaphragmatic hernia defect size and infant morbidity at discharge.** *Pediatrics* 138(5):1-8, 2016. PMID: 27940787
39. Burgos CM, Freckner B, Luco M, Harting MT, Lally PA, Lally KP; Congenital Diaphragmatic Hernia Study Group. **Prenatally diagnosed congenital diaphragmatic hernia: optimal mode of delivery?** *J Perinatol* 37(2):134-138, 2017. PMID: 28055024
40. Putnam LR, Tsao K, Lally KP, Blakely ML, Jancelewicz T, Lally PA, Harting MT; Congenital Diaphragmatic Hernia Study Group and the Pediatric Surgery Research Collaborative. **Minimally-invasive versus open congenital diaphragmatic hernia repair: Is there a superior approach?** *J Am Coll Surg* 7515(17):20-5, 2017. PMID: 28147253
41. Putnam LR, Gupta V, Tsao K, Davis CF, Lally PA, Lally KP, Harting MT, for the Congenital Diaphragmatic Hernia Study Group. **Factors associated with early recurrence after congenital diaphragmatic hernia repair.** *J Pediatric Surg* 3468(17):60-64, 2017. PMID: 28359590
42. Burgos CM, Freckner B, Luco M, Harting MT, Lally PA, Lally KP for the Congenital Diaphragmatic Hernia Study Group. **Right versus Left Congenital Diaphragmatic Hernia – What’s the difference?** *J Pediatr Surg* 3468(17):30649-8, 2017. PMID: 29122292
43. Harting MT, Hollinger L, Tsao K, Putnam LR, Wilson JM, Hirschl RB, Skarsgard ED, Tibboel D, Brindle ME, Lally PA, Miller CC, Lally KP for The Congenital Diaphragmatic Hernia Study Group. **Aggressive surgical management of congenital diaphragmatic hernia: worth the effort? A multicenter, prospective, cohort study.** *Ann Surg* 267(5):977-82, 2018. PMID: 28134682
44. Guner YS, Nguyen DV, Zhang L, Chen Y, Harting MT, Rycus P, Barbaro R, Di Nardo M, Brogan TV, Cleary J, Yu PT. **Development and validation of ECMO mortality-risk models for congenital diaphragmatic hernia.** *ASAIO J* 64(6):785-94, 2018. PMID: 29117038
45. Jancelewicz T, Brindle ME, Harting MT, Tolley EA, Langham MR, Lally PA, Gosain A, Storgion SA, Kays DW on behalf of the Congenital Diaphragmatic Hernia Study Group. **Extracorporeal membrane oxygenation (ECMO) risk stratification in newborns with congenital diaphragmatic hernia (CDH).** *J Pediatr Surg* 53(10):1890-95, 2018. PMID: 29754878
46. Harting MT, Srivastava AK, Zhaorigetu S, Bair H, Prabhakara KS, Toledano Furman NE, Vykoukal JV, Ruppert KA, Cox CS, Olson SD. **Inflammation-stimulated mesenchymal stromal cell-derived extracellular vesicles attenuate inflammation.** *Stem Cells* 36(1):79-90, 2018. PMID: 29076623
47. Zhaorigetu S, Bair H, Lu J, Jin Di, Olson SD, Harting MT. **Perturbations in endothelial dysfunction-associated pathways in the nitrofen-induced congenital diaphragmatic hernia model.** *J Vascular Research* 55(1):26-34, 2018. PMID: 29216632
48. Ruppert KA, Nguyen TT, Prabhakara KS, Toledano Furman NE, Srivastava AK, Harting MT, Cox CS, Olson SD. **Human mesenchymal stromal cell-derived extracellular vesicles modify microglial response and improve clinical outcomes in experimental spinal cord injury.** *Sci Rep* 8(1):480, 2018. PMID 29323194
49. Burgos CM, Freckner B, Luco M, Harting MT, Lally PA, Lally KP; Congenital Diaphragmatic Hernia Study Group. **Prenatally versus postnatally diagnosed congenital diaphragmatic hernia – side, stage, and outcome.** *J Pediatr Surg* 54(4):651-655, 2018. PMID: 29753526
50. Kalkwarf KJ, Jensen SD, Allukian M, Harting MT, Cox CS, Fox EE, Wade CE, Cotton BA. **Can we identify futility in kids? An evaluation of admission parameters predicting 100% mortality in 1292 severely injured children.** *J Am Coll Surg* 226(4):662-667, 2018. PMID: 29325878
51. Guner YS, Harting MT, Fairbairn K, Delaplain PT, Zhang L, Chen Y, Kabeer MH, Yu PT, Cleary JP, Stein JE, Stolar C, Nguyen DV. **Outcomes of infants with congenital diaphragmatic hernia treated with venovenous versus venoarterial extracorporeal membrane oxygenation: A propensity score approach.** *J Pediatr Surg* 53(11):2092-99, 2018. PMID: 30318280
52. Szafranski P, Kośmider E, Liu Q, Karolak JA, Currie L, Parkash S, Kahler SG, Roeder E,

- Littlejohn RO, DeNapoli TS, Shardonofsky FR, Henderson C, Powers G, Poisson V, Michaud JL, Janssens S, De Coen K, Van Dorpe J, Dheedene A, Harting MT, Weaver MD, Khan AM, Tatevian N, Wambach J, Popek E, Gambin A, Stankiewicz P. **LINE and Alu genomic instability hotspot at 16q24.1 initiates recurrent DNA breaks leading to variably-sized CNV deletions causative for ACDMPV.** *Hum Mutation* 39(12):1916-25, 2018. PMID: 30084155
53. Carrillo LA, Kumar A, Harting MT, Pedroza C, Cox CS. **Venous Thromboembolism Risk Factors in a Pediatric Trauma Population.** *Pediatr Surg Int* 35(4):487-493, 2019. PMID: 30456686
54. Carrillo LA, Skibber M, Kumar A, George M, Aziz S, Harting MT, Cox CS. **A morphometric model for endovascular occlusion of the retrohepatic vena cava in pediatric trauma.** *J Surg Res* 241:215-221, 2019. PMID: 31028943
55. Guner YS, Delaplain PT, Zhang L, Di Nardo M, Brogan T, Chen Y, Cleary JP, Yu PT, Harting MT, Ford HR, Nguyen DV. **Trends in mortality and risk characteristics of congenital diaphragmatic hernia treated with extracorporeal membrane oxygenation.** *ASAIO Journal* 65(5):509-515, 2019. PMID: 29863628
56. Delaplain PT, Jancelewicz T, Di Nardo M, Zhang L, Yu PT, Cleary JP, Morini F, Harting MT, Nguyen DV, Guner YS. **Management preferences in ECMO mode for congenital diaphragmatic hernia.** *J Pediatr Surg* 54(5):903-908, 2019. PMID: 30786989
57. Delaplain P, Harting MT, Jancelewicz T, Zhang L, Yu P, Di Nardo M, Chen Y, Stein JE, Ford H, Nguyen D, Guner Y for the ELSO CDH interest group. **Potential survival benefit with repair of congenital diaphragmatic hernia (CDH) after extracorporeal membrane oxygenation (ECMO) in select patients: Study by ELSO CDH Interest Group.** *J Pediatr Surg* 54(6):1132-1137, 2019. PMID: 30898399
58. Dao DT, Burgos CM, Harting MT, Lally KP, Lally PA, Nguyen HT, Wilson JM, Buchmiller TL. **Surgical repair of congenital diaphragmatic hernia after extracorporeal membrane oxygenation cannulation: early repair improves survival.** *Ann Surg* [Epub] XX(X):XX-XX, 2019. PMID: 31425289
59. Jancelewicz T, Brindle ME, Guner YS, Lally PA, Lally KP, Harting MT for the CDHSG. **Toward standardized management of congenital diaphragmatic hernia: an analysis of North American clinical practice guidelines.** *J Surg Res* 243:229-235, 2019. PMID: 31226462
60. Patel N, Lally PA, Kipfmueller F, Massolo C, Luco M, Van Meurs K, Lally KP, Harting MT for the CDHSG. **Ventricular dysfunction is a critical determinant of mortality in congenital diaphragmatic hernia.** *Am J Respir Crit Care Med* 200(12):1522-30, 2019. PMID: 31409095
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50. Burgos CM, Frenckner B, Luco M, Harting MT, Lally PA, Lally KP. **Prenatal versus postnatally diagnosed congenital diaphragmatic hernia – side, stage, and outcome**. *CDH International Symposium, Liverpool, UK* 11/2017 (oral)
51. Jancelewicz T, Brindle ME, Lally PA, Harting MT for the Congenital Diaphragmatic Hernia Study Group. **Mortality patterns and use of extracorporeal membrane oxygenation (ECMO) in congenital diaphragmatic hernia (CDH)**. *CDH International Symposium, Liverpool, UK* 11/2017 (oral)
52. Harris K, Hamilton E, Fonsesca A, Mahajan S, Eguia A, Harting MT, Tsao K, Austin M. **Exploring the family financial burden of outpatient pediatric surgical care and interest in telemedicine for post-operative care**. *13th Annual Academic Surgical Congress*; Jacksonville, FL 2/2018 (oral)
53. Jancelewicz T, Brindle ME, Lally PA, Lally KP, Harting MT for the Congenital Diaphragmatic Hernia Study Group and the Pediatric Surgery Research Collaborative. **Perinatal management of congenital diaphragmatic hernia: variability in clinical practice guidelines**. *13th Annual Academic Surgical Congress*; Jacksonville, FL 2/2018 (oral)
54. Jones J, Harting MT, Brindle ME, Lally PA, Jancelewicz T for the Congenital Diaphragmatic Hernia Study Group. **Mortality patterns and use of extracorporeal membrane oxygenation**

- (ECMO) in congenital diaphragmatic hernia (CDH).** 2018 APSA Meeting, Palm Desert, CA 5/2018 (*poster-oral*)
55. Fairbairn K, Zhang L, Chen Y, Stolar C, Yu P, McMullan M, Harting MT, Nguyen DV, Guner YS. **Outcomes of infants with Congenital Diaphragmatic Hernia (CDH) Treated with Venovenous versus Venoarterial Extracorporeal Membrane Oxygenation (ECMO): A Propensity Score Approach.** 2018 APSA Meeting, Palm Desert, CA 5/2018 (*oral – plenary session*)
 56. Srivastava AK, Zhaorigetu S, Bair H, Prabhakara KS, Toledano Furman NE, Vykoukal JV, Ruppert KA, Cox CS, Harting MT, Olson SD. **Inflammation-stimulated mesenchymal stem cell-derived extracellular vesicles attenuate inflammation via cyclooxygenase-mediated pathway.** Extracellular RNA Communication Consortium; Washington, DC 11/2017
 57. Kalkwarf KJ, Jensen SD, Allukian M, Harting MT, Cox CS, Fox EE, Wade CE, Cotton BA. **Can We Identify Futility In Kids? An Evaluation of Admission Parameters Predicting 100% Mortality in 1292 Severely Injured Children and Adolescents.** 2017 Southern Surgical Association 129th Annual Meeting Hot Springs, VA 12/2017 (*oral*)
 58. Harting MT, Zhaorigetu S, Jin D, Olson S, Pandit LM, Bryan RM, Cox CS, Lally KP. **Mesenchymal stromal cell-derived extracellular vesicles balance pulmonary vasoactive mediators and improve pulmonary artery responsiveness in congenital diaphragmatic hernia.** 2018 APSA meeting, Palm Desert, CA 5/2018 (*oral – scientific session*)
 59. Srivastava AK, Ruppert KA, Nguyen TT, Prabhakara KS, Zhaorigetu S, Toledano Furman NE, Cox CS, Harting MT, Olson SD. **Immunomodulatory treatment approach to CNS injury: role of mesenchymal stem cell-derived extracellular vesicles.** International Society for Extracellular Vesicles; Barcelona, Spain 5/2018 (*oral-poster*)
 60. Delaplain P, Zhang L, Harting MT, Jancelewicz T, Yu P, Stein J, Ford H, Nguyen D, Guner Y for the Congenital Diaphragmatic Hernia Study Group. **Propensity score analysis reveals a survival benefit with repair of congenital diaphragmatic hernia (CDH) after extracorporeal membrane oxygenation (ECMO) in select patients.** Scientific Forum program at the American College of Surgeons Clinical Congress, Boston, MA 10/2018 (*oral-clinical session*)
 61. Jancelewicz T, Brindle M, Guner Y, Lally P, Langham M, Harting MT for the Congenital Diaphragmatic Hernia Study Group. **High-risk patients benefit from extracorporeal membrane oxygenation (ECMO) in congenital diaphragmatic hernia (CDH): a study of center effects.** 2018 AAP Meeting, Orlando, FL 11/2018 (*oral-clinical session*)
 62. Delaplain P, Zhang L, Harting MT, Jancelewicz T, Yu P, Stein J, Ford H, Nguyen D, Guner Y for the Congenital Diaphragmatic Hernia Study Group. **Propensity score analysis reveals a survival benefit with repair of congenital diaphragmatic hernia (CDH) after extracorporeal membrane oxygenation (ECMO) in select patients.** 2018 AAP Meeting, Orlando, FL 11/2018 (*oral-clinical session*)
 63. Emelander C, Winton M, Shelley C, Harting MT. **ECMO Specialist led Run-Review – an adjunct to Morbidity and Mortality Conference.** 2018 ELSO Meeting, Scottsdale, AZ 9/2018 (*oral-poster*)
 64. Miller C, Harting MT. **The morbidity of survivorship in congenital diaphragmatic hernia.** 14th Annual Academic Surgical Congress; Houston, TX 2/2019 (*oral-quickshot*)
 65. Ohman K, Zhu H, Maizlin I, Henry D, Ramirez R, Manning L, Williams RF, Guner YS, Russell RT, Harting MT, Vogel AM. **A multicenter study of nutritional adequacy in neonatal and pediatric extracorporeal life support.** 14th Annual Academic Surgical Congress; Houston, TX 2/2019 (*oral-quickshot*)
 66. Emelander CA, Shelley CL, Wysoki MK, Harting MT. **Optimizing ECMO pump priming utilizing hemofiltration.** 35th Annual Children's National Symposium; Keystone, CO 2/2019 (*oral-poster*)
 67. Dao DT, Burgos CM, Harting MT, Lally KP, Lally PA, Nguyen HT, Wilson JM, Buchmiller TL. **Operative timing in congenital diaphragmatic hernia patients receiving ECMO, Part I: Repair on ECMO improves survival.** 2019 APSA Meeting, Boston, MA 5/2019 (*oral*)

68. Dao DT, Burgos CM, Harting MT, Lally KP, Lally PA, Nguyen HT, Wilson JM, Buchmiller TL. **Operative timing in congenital diaphragmatic hernia patients receiving ECMO, Part II: Repair early on ECMO improves survival.** 2019 APSA Meeting, Boston, MA 5/2019 (*oral*)
69. Monroe M, Zhaorigetu S, Jin D, Givan K, Segura A, Buja LM, Grande-Allen KJ, Harting MT. **Extracellular vesicles influence the pulmonary arterial extracellular matrix in congenital diaphragmatic hernia.** 2019 AHA: Vascular Discovery: from genes to medicine meeting, Boston, MA 5/2019 (*oral-poster*)
70. Zhaorigetu S, Bair H, Jin D, Gupta VS, Lally KP, Olson S, Cox CS, Harting MT. **Nitrofen-mediated pulmonary artery endothelial cellular dysfunction is attenuated by mesenchymal stromal cell-derived extracellular vesicles: Implications for congenital diaphragmatic hernia.** 2019 APSA Meeting, Boston, MA 5/2019 (*oral/poster*)
71. Ferguson DM, Lally PA, Harting MT, Tsao K, Fisher KA, Fouad D, Hawkins MJ, Kays DW, Levin DE, Lindeman JA, Luco M, Maroszynska IA, McGahren ED, McLean SE, Burgos CM, Russell RT, Schoel LJ, Villalona GA, Lally KP. **Hepatopulmonary Fusion in Congenital Diaphragmatic Hernia: A Case Series.** 2019 PAPS Meeting, New Zealand 3/2019 (*oral*)
72. Drake SA, Holcomb JB, Yang Y, Thetford C, Myers L, Brock M, Wolf DA, Persse D, Naik-Mathuria BJ, Wade CE, Harting MT. **Preventable/potentially preventable pediatric trauma deaths: Should there be a different interventional focus from adults?** 2019 SAVIR (Society for Advancement of Violence and Injury Research) Meeting, Cincinnati, OH 4/2019 (*oral*)
73. Burgos CM, Freckner B, Harting MT, Lally PA, Lally KP for the Congenital Diaphragmatic Hernia Study Group. **Congenital Diaphragmatic Hernia and associated omphalocele: A study from the CDHSG registry.** 2019 EUPSA Congress meeting, Belgrade, Serbia 6/2019 (*oral*)
74. Emelander CA, Johnson D, Gupta VS, Shelley CL, Harting MT. **Simulating the priming process using expired packed red blood cells in a simulation setting.** 30th Annual Extracorporeal life support organization (ELSO) meeting; Austin, TX 9/2019 (*oral-poster*)
75. Ferguson DM, Lally PA, Hebballi NB, Garcia EI, Lally KP, Tsao K, Harting MT. **Birth Weight Predicts Outcomes in Congenital Diaphragmatic Hernia.** 2019 ACS Clinical Congress, San Francisco, CA 10/2019 (*oral*)
76. Ferguson DM, Lally PA, Mitchell KG, Garcia EI, Tsao K, Lally KP, Harting MT. **Birth weight predicts outcomes in infants who undergo congenital diaphragmatic hernia repair.** 2019 American Academy of Pediatrics (AAP) National Conference & Exhibition, New Orleans, LA 10/2019 (*poster/oral*)
77. Ferguson DM, Gupta VS, Lally PA, Luco M, Tsao K, Lally KP, Patel N, Harting MT. **Early, postnatal pulmonary hypertension severity is predictive of early outcomes in congenital diaphragmatic hernia.** 2019 American Academy of Pediatrics (AAP) National Conference & Exhibition, New Orleans, LA 10/2019 (*oral - podium*)
78. Delaplain PT, Yu PT, Ehwerhemuepha L, Nguyen DV, Jancelewicz T, Stein J, Harting MT, Guner Y. **Predictors of long ECMO runs for congenital diaphragmatic hernia.** 2019 American Academy of Pediatrics (AAP) National Conference & Exhibition, New Orleans, LA 10/2019 (*oral - podium*)
79. Delaplain PT, Ehwerhemuepha L, Jancelewicz T, Harting MT, Brindle ME, Nguyen DV, Guner Y. **Increased risk of ECMO complications in congenital diaphragmatic hernia is associated with certain pre-ECMO conditions.** 2019 CAPS Meeting, Quebec City, Quebec 9/2019 (*oral-podium*)
80. Mansfield SA, Delaplain PT, Nguyen DV, Guner YS, Harting MT, Lally PA, Jancelewicz T. **Predicting failure of venovenous extracorporeal membrane oxygenation in congenital diaphragmatic hernia.** 2019 APSA Meeting, Boston, MA 5/2019 (*oral-poster*)
81. Gupta VS, Khan AM, Ebanks AH, Lally PA, Lally KP, Harting MT. **Cornelia de Lange syndrome and congenital diaphragmatic hernia.** 15th Annual Academic Surgical Congress; Orlando, FL 2/2020 (*oral - quickshot*)
82. Ferguson DM, Gupta VS, Lally PA, Luco M, Tsao K, Lally KP, Patel N, Harting MT for the CDHSG. **Early, postnatal pulmonary hypertension severity is predictive of early outcomes**

- in congenital diaphragmatic hernia. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
83. Burgos CM, Freckner B, Harting MT, Lally PA, Lally KP for the CDHSG. **Congenital diaphragmatic hernia and associated omphalocele: A study from the CDHSG. CDH International Symposium (CDH2020), Houston, TX 2/2020 (oral - quickshot)**
 84. Ferguson DM for the CDHSG. Writing committee: Lally PA, Tsao K, Harting MT, Fisher KA, Fouad D, Hawkins MJ, Kays DW, Levin DE, Lindeman JA, Luco M, Maroszynska IA, McGahren ED, McLean SE, Burgos CM, Russell RT, Schoel LJ, Villalona GA, Lally KP. **Hepatopulmonary Fusion: A rare variant in Congenital Diaphragmatic Hernia. CDH International Symposium (CDH2020), Houston, TX 2/2020 (oral - quickshot)**
 85. Jancelewicz TJ, Langham M, Stiles Z, Dong L, Wan J, Brindle M, Guner Y, Lally P, Harting MT for the CDHSG. **Extracorporeal life support is associated with improved survival for newborns with severe congenital diaphragmatic hernia. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 86. Emanuel H, Harting MT, Ebanks AH, Lally K, Stark J, Jon C, McBeth K, Yadav A, Flores C, Harris T, Mosquera R. **Pulmonary complications in children survivors of congenital diaphragmatic hernia. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 87. Gupta VS, Ebanks A, Mosquera R, Lally K, Harting MT. **Emergency presentation and hospital re-admission for CDH patients within one year of discharge. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 88. Gupta VS, Patel N, Lally P, Lally K, Harting MT. **Elevated proBNP levels are associated with disease severity, cardiac dysfunction, and mortality in CDH. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 89. Gupta VS, Zhaorigetu S, Jin D, Berg N, Eltzschig H, Lally K, Harting MT. **Perinatal hypoxia in congenital diaphragmatic hernia pulmonary parenchyma. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 90. Gupta VS, Harting MT. **Umbilical cord mononuclear cells for hypoxic neurologic injury in congenital diaphragmatic hernia: A phase I clinical trial. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 91. Dao DT, Patel N, Harting MT, Lally KP, Lally PA, Buchmiller TL. **Early Left Ventricular Dysfunction and Severe Pulmonary Hypertension Predict Adverse Outcomes in “Low-Risk” Congenital Diaphragmatic Hernia. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 92. Guner Y, Harting MT, Jancelewicz T. **Centrifugal pumps are the strongest predictor of hemolysis during ECLS for CDH. CDH International Symposium (CDH2020), Houston, TX 2/2020 (podium)**
 93. Gupta VS, Zhaorigetu S, Jin D, Berg N, Eltzschig H, Lally KP, Harting MT. **The lungs in congenital diaphragmatic hernia are severely hypoxic at birth – insight into pathogenesis. APSA meeting, Orlando, FL 5/2020 (Virtual oral - poster)**
 94. Gupta VS, Patel N, Lally PA, Lally KP, Harting MT. **Elevated pro-BNP levels are associated with disease severity, cardiac dysfunction, and mortality in CDH. APSA meeting, Orlando, FL 5/2020 (Virtual oral - poster)**
 95. Gupta VS, Meliones J, Tripathi S, Tchakarov AS, Harting MT. **Extracorporeal life support in e-cigarette and vaping-associated lung injury. American Thoracic Society (ATS) International Conference, Philadelphia, PA (virtual) 8/2020 (poster and audio virtual presentation)**
 96. Emanuel H, Harting MT, Martinez Castillo DJ, Ebanks AH, Lally KP, Harris T, Gupta V, Poe M, Colasurdo G, Stark JM, Jon C, McBeth K, Yadav A, Mosquera R. **Pulmonary Complications and Adverse Outcomes in Relation to Congenital Diaphragmatic Hernia (CDH) size defect among CDH survivors. American Thoracic Society (ATS) International Conference, Philadelphia, PA 5/2020 (Virtual oral – poster)**
 97. Emanuel H, Harting MT, Rennie K, Harris T, Ebanks AH, Zapata H, Flores C, Stark JM, Yadav

A, Caldas M, Eapen J, Ramanathan S, Colasurdo G, Mosquera R. **The impact of integrated multidisciplinary care on medical outcomes among childhood survivors of congenital diaphragmatic hernia.** *Pediatric Academic Societies (PAS) 2020 meeting, Philadelphia, PA 4/2020*

98. Popp EC, Gupta VS, Garcia EI, Qashqai S, Ankrom C, Wu T, Harting MT. **Telemedicine as an effective tool for forward triage during a pandemic.** *American Public Health Association meeting, 8/2020* (Oral – virtual)
99. Gupta VS, Ebanks A, Mosquera R, Lally K, Harting MT. **Emergency presentation and hospital re-admission for CDH patients within one year of discharge.** *Pacific Association of Pediatric Surgeons (PAPS), Tainan, Taiwan 11/2020* (Oral - Virtual)
100. Gupta VS, Hayes D, Hsu S, Tonna J, Bridges, B, Diaban F, Bosma K, Bhatt JM, Harting MT. **Extracorporeal Life Support for respiratory failure in patients with EVALI.** *31st Annual Extracorporeal Life Support Organization (ELSO) Virtual Conference 8/2020* (Virtual oral-poster)
101. Gupta VS, Harting MT, Miller CC, Lally PA, Hirschl RB, Davis CF, Dassinger MS, Buchmiller TL, Van Meurs KP, Yoder BA, Stewart MJ, Lally KP. **Has survival improved for congenital diaphragmatic hernia? A 25-year review of over 5000 patients from the CDH Study Group.** *American College of Surgeons Clinical Congress 10/2020* (Virtual Oral)
102. Gupta VS, Patel N, Lally PA, Lally KP, Harting MT. **Elevated pro-BNP levels are associated with disease severity, cardiac dysfunction, and mortality in CDH.** *American Academy of Pediatrics, Section on Surgery 10/2020* (Virtual Oral - Poster)
103. Coughlin MC, Gupta VS, Ebanks AH, Harting MT, Lally KP. **Congenital diaphragmatic hernia with pulmonary sequestration - incidence and outcomes.** *American Academy of Pediatrics, Section on Surgery 10/2020* (Virtual Oral)
104. Gupta VS, Harting MT, Miller CC, Lally PA, Hirschl RB, Davis CF, Dassinger MS, Buchmiller TL, Van Meurs KP, Yoder BA, Stewart MJ, Lally KP. **Has survival improved for congenital diaphragmatic hernia? A 25-year review of over 5000 patients from the CDH Study Group.** *American Academy of Pediatrics, Section on Surgery 10/2020* (Virtual Oral)
105. Gupta VS, Zhaorigetu S, Jin D, Berg NK, Eltzschig HK, Harting MT. **Early cardiac dysfunction in congenital diaphragmatic hernia may be due to hypoxia.** *The 16th Annual Academic Surgical Congress Scientific Program, 2/2021* (Virtual – Oral)
106. Gupta VS, Zhaorigetu S, Jin D, Berg NK, Eltzschig HK, Harting MT. **Congenital diaphragmatic hernia associated pulmonary hypoxia and inflammation are initiated *in utero*.** *American Pediatric Surgical Association, 5/2021* (Virtual – Oral, *accepted*)
107. Gupta VS, Perrone EE, Patel N, Guner YS, Jancelewicz T, Ebanks AH, Johnson A, Tsao K, Lally KP, Harting MT. **Prenatal imaging measurements correlate with early post-natal pulmonary hypertension and cardiac dysfunction in congenital diaphragmatic hernia.** *American Pediatric Surgical Association, 5/2021* (Virtual – Oral, Plenary - *accepted*)
108. Popp E, Gupta VS, Ebanks AH, Kardon G, Greenleaf CE, Annavaiahala VS, Patel N, Robie DK, Lally PA, Lally KP, Harting MT. **Isolated aortic arch anomalies are associated with defect severity and outcome in patients with congenital diaphragmatic hernia.** *American Association of Thoracic Surgeons Annual Conference and Aortic Symposium 2021, 5/2021* (Virtual – Oral-Poster, *accepted*)
109. Popp EC, Gupta VS, Emelander C, Johnson D, Chen P, Meliones J, Harting MT. **Ventricular dysfunction in pediatric non-cardiac extracorporeal life support.** *Children's National Symposium for ECMO and the Advanced Therapies for Cardiac and Respiratory Failure, 2/2021* (Virtual Oral/Poster, *submitted*)

INVITED SPEAKING ENGAGEMENTS – NON-SCIENTIFIC:

1. **White Coat Ceremony 2000** Houston, TX/Attendance: 400 parents of medical students/Virtual tour of our school and inside look at student life, 2000.
2. **One year memorial of September 11, 2001** Houston, TX/Attendance: 300 students, staff, and faculty/Personal reflections, 9/11/2002.

3. **Medical School Commencement, Class of 2003** Houston, TX/Attendance: 2,500 students, staff, family, and friends/Delivered the commencement address at our graduation ceremony, 2003.
4. **UT Houston Retreat 2002 – 2005, 2015, 2016, 2019, 2020(virtual)** Houston, TX/Attendance: 250 incoming medical students and faculty/Welcome to medical school
5. **Grand Sounds 2015** Houston, TX/Attendance: 250 students - Student Chapter of the Alumni Association/Personal experiences at UTMSH and accomplishments
6. **UTHouston Medical School's Student Surgical Association 2014-2018** Houston, TX/Attendance: 300 first & second year medical students/Discussion on pediatric surgery

INVITED PRESENTER LECTURES – NATIONAL AND INTERNATIONAL:

1. **Utilizing Connected Health in Procedure-Based Specialties.** Harting MT, *Invited lecturer*, mHealth+Telehealth World 7/2015 Boston, MA
2. **ECMO management for CDH.** Harting MT, *Visiting Assistant Professor*, Indiana University & Riley Children's Hospital, 10/18/2016 Indianapolis, IN
3. **Congenital Diaphragmatic Hernia – How should we manage those that require ECMO?** Harting MT, *Visiting Assistant Professor*, University of Tennessee & Le Bonheur Children's Hospital, 1/26/2017 Memphis, TN
4. **The Congenital Diaphragmatic Hernia Study Group Update. What have we learned? What do we do now?** Harting MT, *Invited lecturer*, 29th Annual Specialist Education in Extracorporeal Membrane Oxygenation (SEECMO) conference, Johns Hopkins All Children's Hospital, 5/3-5/2019 St. Petersburg, FL
5. **Current Controversies in the Management of Congenital Diaphragmatic Hernia.** Harting MT, *Invited lecturer*, 10th Annual Innovations in Neonatal Care Conference, 8/12/2019 Austin, TX
6. **Optimal timing of diaphragmatic hernia repair for patients on ECLS – Debate side: Early on ECLS.** Harting MT, *Invited panel (debate) lecturer*, Extracorporeal Life Support Organization Annual Meeting, 9/12-15/2019 Austin, TX
7. **Multidisciplinary, long-term follow-up in Congenital Diaphragmatic Hernia.** Harting MT, *Invited panel lecturer*, American College of Surgeons (ACS) Clinical Congress, 10/28/2019 San Francisco, CA
8. **The Congenital Diaphragmatic Hernia Study Group - Current evidence, collaborative evolution, and the future of CDH investigation.** Harting MT, *Invited podium lecturer*, Children's Hospital Neonatal Consortium Annual Meeting, 11/4/2019 Atlanta, GA
9. **Infectious challenges in the ICU – CDH as an example.** Harting MT, *Invited panel lecturer*, Pediatric Critical Care Annual Meeting, 11/8/2019 Houston, TX
10. **Prenatal and Fetal Cell Therapy – You can be anything you want to be when you grow up.** Harting MT, *Invited podium lecturer*, 7th Annual Fetal Think Tank Semi-annual meeting, 12/13/2019 Houston, TX
11. **Congenital Diaphragmatic Hernia Debate: When should we repair? My side: Early on ECLS!** Harting MT, *Invited podium/panel lecturer*, 36th Annual Children's National Symposium (Keystone – ECMO & Advanced Therapies for Respiratory Failure), 2/24/2020 Keystone, CO
12. **Congenital Diaphragmatic Hernia** Harting MT, *Invited podium/panel lecturer/moderator with an expert panel and audience response*, CDH International Symposium (CDH2020), 2/10/2020 Houston, TX
13. **The (uncharted) path forward in Congenital Diaphragmatic Hernia.** Harting MT, *Invited podium ("TEC talk") lecturer - virtual*, American Pediatric Surgical Association Annual Meeting, 5/21/2020 (Virtual presentation with subsequent discussion panel)
14. **Virtual care... what the h\$^# just happened?** Harting MT, *Invited podium lecturer - virtual*, 2020 Telehealth Innovation Forum , 6/29/2020 (Virtual+panel), shown 7/21/2020
15. **ECLS for Congenital Diaphragmatic Hernia – Seeking evidence-based answers.** Harting MT, *Virtual Visiting Associate Professor & Grand Rounds speaker*. Cohen Children's Medical

Center/Northwell Health & Zucker School of Med-Hofstra, 1/19/2021 New York, NY (Virtual)

16. **Current Controversies in the Management of Congenital Diaphragmatic Hernia – New evidence and the future.** Harting MT, *Invited lecturer*, NEO-The Conference for Neonatology, 2/15-19/2021 Virtual+panel
17. **Avoiding lung injury in infants with congenital diaphragmatic hernia.** Harting MT, *Invited lecturer*, 3rd Annual Baylor's Avoiding Lung Injury (BALI) Conference, 2/11/2021 Virtual+panel

CASE REPORTS:

1. Messner G, Harting MT, Russo P, Gregoric I, Mukhopadhyay M, Flamm S, Frazier OH. **Surgical management of metastatic melanoma to the ventricle.** *Tex Heart Inst J* 30(3):218-20, 2003. PMID: 12959206
2. Harting MT, Messner GN, Gregoric ID, Frazier OH. **Sarcoma metastatic to the right ventricle: surgical intervention followed by prolonged survival.** *Tex Heart Inst J* 31(1):93-5, 2004. PMID: 15061635
3. Harting MT, Blakely ML, Herzog C, Lally KP, Ajani JA, Andrassy RJ. **Treatment issues in pediatric gastric adenocarcinoma.** *J Pediatr Surg* 39(8):e8-10, 2004 Aug. PMID: 15300556
4. Harting MT, Doherty D, Lally KP, Andrews WM, Cox CS. **Modified pyloric exclusion for infants with complex duodenal injuries.** *Pediatr Surg Int* 21(7):569-72, 2005 Jul. PMID: 15926045
5. Harting MS, Tarrant W, Kovitz CA, Rosen T, Harting MT, Souchon EA. **Massive nodular melanoma: A case report.** *Dermatol Online J* 13(2):7, 2007 May. PMID: 17498426
6. Ricca RL, Harting MT, Healey PJ, Javid PJ. **Intussusception of bypassed ileal segment following ileal exclusion for progressive familial intrahepatic cholestasis.** *Journal of Pediatric Surgery Case Reports* 2: 344-46, 2014
7. Eguia A, Tyler M, Harting MT, Roy S. **Pediatric lateral floor of the mouth dermoid cyst – Transoral approach. Case report and literature review.** SENTAC 2017
8. Miles DG, Harting MT, Shah SK. **Obstructing colon mass in the setting of intestinal non-rotation.** *ANZ J Surg* 2018. PMID: 29974609
9. Winsett F, Ting J, Harting MT. **Rapunzel Syndrome: a rare case of acute pancreatitis requiring surgical management.** *Pancreas* 48(5):38-9, 2019. PMID: 31090664

OTHER:

1. **Course Director**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital / Memorial Hermann Hospital Extracorporeal Membrane Oxygenation (ECMO/ECLS) Course, 8/2015
2. **Course Director**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital / Memorial Hermann Hospital Extracorporeal Membrane Oxygenation (ECMO/ECLS) Symposium, 8/2016
3. **Course Director**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital / Memorial Hermann Hospital Extracorporeal Membrane Oxygenation (ECMO/ECLS) Symposium, 10/2017
4. **Course Director**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital / Memorial Hermann Hospital Extracorporeal Membrane Oxygenation (ECMO/ECLS) Symposium, 9/2018
5. **Course Director**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital / Memorial Hermann Hospital Extracorporeal Membrane Oxygenation (ECMO/ECLS) Symposium, 8/2019
6. **Co-editor**, *Seminars in Perinatology*, Congenital Diaphragmatic Hernia-focused edition, 2/2020
7. **CDH 2020, Symposium Director/Program Committee Chair**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital hosting the biennial International Meeting focusing on CDH; 3 day meeting – 2/10-12/2020
8. **Course Director**, University of Texas McGovern Medical School & Children's Memorial Hermann Hospital / Memorial Hermann Hospital Extracorporeal Membrane Oxygenation (ECMO/ECLS) Symposium (virtual), 9/2020