

Michael V Zaretsky, MD FACOG  
Associate Professor  
Maternal Fetal Medicine  
Department of Obstetrics and Gynecology

Director of Research, Colorado Fetal Care Center

University of Colorado Anschutz Medical Campus  
12631 East 17th Avenue  
Academic Office 1, 4th floor  
Aurora, CO 80045  
303-724-2034

Colorado Fetal Care Center  
Children's Hospital of Colorado  
Anschutz Medical Campus  
13123 East 16th Avenue  
Aurora, CO 80045  
855-413-3825

EDUCATION:

Undergraduate: Youngstown State University 1991-93, B.S.  
Youngstown, OH

Graduate: Northeast Ohio Medical University 1993-97, M.D.  
Rootstown, OH

Internship/  
Residency: Baylor University Medical Center 1997-2001  
Dallas, TX

Fellowship: Maternal-Fetal Medicine 2001-2004  
University of Texas Southwestern  
Medical Center and  
Parkland Memorial Hospital  
Dallas, Texas

CERTIFICATION: American Board of Obstetrics & Gynecology- Fellow  
Maternal Fetal Medicine- Fellow  
- Written general exam passed 2001  
- Oral general exam passed 2005  
- Written MFM passed 2005

- Oral MFM passed 2007

LICENSURE: Colorado 0052417

CURRENT POSITION:

Associate Professor 2013-present  
Department Of Obstetrics and Gynecology  
Division of Maternal Fetal Medicine  
University of Colorado Anschutz Medical Campus

Medical Director, Colorado Fetal Care Center 2018-2022

Director, Labor and Delivery 2014-2022  
Colorado Fetal Care Center  
University of Colorado Anschutz Medical Campus

Fetal Precision Medicine Board, Colorado Children's Hospital 2021-present

Local Principal Investigator for Colorado Fetal Care Center, North American Fetal Therapy Network 2013-present

Executive Board North American Fetal Therapy Network (Secretary) 2022-present

Research Lead, Colorado Fetal Care Center 2013-Present

Fetal Therapy Simulation Lab Director, Colorado Fetal Care Center- 2020-Present

PRIOR POSITIONS:

Associate Professor 2012-2013  
Department of Obstetrics and Gynecology  
University of Texas Southwestern Medical Center

Assistant Professor, 2006-2012  
Department of Obstetrics and Gynecology  
University of Texas Southwestern Medical Center

Medical Director, Maternal Fetal Medicine Outreach Clinic 2008-2013

Maternal Fetal Medicine at Children's Medical Center  
 UT Southwestern Medical Center  
 Plano, TX

Lead, Fetal Therapy, 2006-2013  
 UT Southwestern Medical Center, Dallas  
 Parkland Memorial Hospital

Maternal Fetal Medicine 2004-2006  
 Private Practice  
 Collin County, Texas

**SPECIALIZATION:**

Fetal diagnosis and therapy  
 Fetal Surgery  
 High-risk and complicated pregnancy  
 Prenatal diagnosis and genetics  
 Fetal malformations  
 Ultrasound imaging

**HOSPITAL AFFILIATIONS:**

University of Colorado Anschutz 2013-present  
 Aurora, Colorado

Children's Hospital of Colorado 2013-present  
 Aurora, Colorado

Littleton Adventist Hospital 2013-present  
 Littleton, CO

Parker Adventist Hospital 2013-present  
 Parker, CO

Castle Rock Adventist Hospital. 2016-present  
 Castle Rock, CO

UT Southwestern Medical Center 2006-2013  
 Dallas, Texas

Parkland Memorial Hospital 2006-2013  
 Dallas, Texas

Baylor Frisco 2008-2013  
 Frisco, Texas

Presbyterian of Allen Allen, Texas	2008-2013
Presbyterian Hospital of Plano Plano, Texas	2004-2013
Medical Center of Plano Plano, Texas	2004-2013
Trinity Medical Center Carrollton, Texas	2004-2013
Centennial Medical Center Frisco, Texas	2004-2013
Medical Center of Lewisville Lewisville, Texas	2009-2013
Methodist Medical Center Dallas, Texas	2004-2005
Parkland Memorial Hospital Dallas, Texas	2001-2004
St. Paul Medical Center Dallas, Texas	2001-2004

#### PREVIOUS POSITIONS:

Steering Committee Chair, NAFTNet 2018-2021

Executive Committee, NAFTNet 2010-2013 and 2018-2021

Consultant for Texas Medical Liability Trust

Private Practice Maternal Fetal Medicine in Collin/Denton County  
2004-2006

Maternal Fetal Medicine Fellow 2001-2004

Ob/Gyn Float Physician, Presbyterian Hospital, Dallas 2001-2004

Resident Physician, Baylor Medical Center Dallas 1997-2001

Tutor, Anatomy and Biochemistry, NEOUCOM, Rootstown, OH (1994)

Laboratory Instructor, NEOMED, Rootstown, OH (1994)

Laboratory Assistant, Histology & Biology, Youngstown State University, Youngstown, OH (1993)

#### SOCIETIES, COMMITTEES:

Grant Reviewer for the March of Dimes: Basil O'Connor for Society of Reproductive Investigators 2021

NAFTNet Fetal Therapy Focus Group, Children's Hospital Neonatal Consortium 2020-present

Scientific Review Subcommittee, North American Fetal Therapy Network 2018-present

Grand Rounds Second Opinion Expert- 2020- present

Promotion and Tenure Committee, Dept of OB/GYN- 2019-2021

Steering Committee Chair, NAFTNet 2018-2021

Education Committee, NAFTNet 2015-present

Search Committee CU Denver, Division MFM 2017-2018

Blood Utilization, Children's Hospital of Colorado 2014-present

Quality and Patient Safety Committee Colorado Fetal Care Center 2014-present

AEF Committee for UC Denver OB/GYN Department 2016-present

Prior Executive Committee North American Fetal Therapy Network 2010-2013

Membership Committee, North American Fetal Therapy Network 2010-present

Local Principal Investigator, North American Fetal Therapy Network UT Southwestern 2008-2013 and Colorado Fetal Care Center 2013-present

Fetal Therapy Committee Parkland Memorial Hospital  
2006-2013

Ex-Utero Intrapartum Therapy Committee UT Southwestern  
2006-2013

American College of Obstetricians & Gynecologists

Texas Medical Association

Collin County Medical Society

Chairman, Dept OB/GYN Centennial Medical Center- 2006

#### HONORS/AWARDS:

*Undergraduate:*

Phi Kappa Honor Society

Golden Key National Honor Society

Youngstown State University Foundation Scholarship (1992)

Dean's List (all quarters)

*Medical School:*

Alpha Omega Alpha Honor Society

Committee Concerning Curriculum of the Undergraduate Medical  
Program (1994-95)

*Internship/Residency:*

Wyeth-Ayerst Resident Reporter, ACOG Annual Clinical Meeting

Kemp Strother CREOG Award, 1998 and 2001

*Professional*

Core Clerkship Teaching Award- 2006-2007

Elected Executive Committee NAFTNet 2010

Elected Steering Committee NAFTNet 2018

Elected Secretary NAFTNet 2022

Nominated for Foundations of Doctoring Award, CU Denver 2016

Named Director of Colorado Fetal Care Center 2018

Graduate Inaugural Physician Leadership Development Course,  
Children's Hospital of Colorado 2019

Five and Four Star Family Experience Awards for both the  
Outpatient and Inpatient Units of the Colorado Fetal Care Center  
yearly since 2018

## GRANTS

The Grantor: AEF OBGYN Research Project 2301837  
 Title of Project: Development of in-utero approaches for gene editing  
 Principal Investigator: Michael V. Zaretsky, M.D.  
 Role of the Nominee: Principal Investigator  
 Annual amount and date: \$100,000/4 years- 2019-2023

The Grantor: CCTSI TM-Pilot and Feasibility Grant  
 Title of Project: In utero targeting of the CFTR gene using CRISPR/Cas9  
 Principal Investigator: Michael V. Zaretsky, M.D.  
 Role of the Nominee: Principal Investigator  
 Annual amount and date: \$20,000/two year grant 2020-2022

The Grantor: National Institute of Health 1R01HD100540-01  
 Title of Project: Renal Anhydramnios Fetal Therapy (RAFT)  
 Principal Investigator: Eric Jelin M.D. Johns Hopkins  
 Role of the Nominee: Local PI  
 Annual amount and date: \$7,042/patient enrolled

The Grantor: National Institute of Health 1R01HD104607-01  
 Title of Project: Gastroschisis Outcomes of Delivery (Good) Study  
 Principal Investigator: Amy Wagner, MD Medical College of Wisconsin  
 Role of the Nominee: Local Co-Investigator  
 Annual amount and date: \$5,000/patient enrolled

The Grantor: Avanos Industry Sponsored  
 Title of Project: Double blind randomized trial of post-operative cesarean continuous infusion of bupivacaine versus placebo for local incisional pain control  
 Principal Investigator: Michael V. Zaretsky, M.D.  
 Role of the Nominee: Principal Investigator  
 Annual amount and date: \$100,000/Two year grant

The Grantor: National Institute of Health/National Institute of Child Health and Human Development  
 Title of Project: Cooperative Multicenter Maternal-Fetal Medicine Units Network NIH U10-HD34116  
 Principal Investigator: Kenneth J. Leveno, M.D.  
 Role of the Nominee: Co-Investigator

Annual amount and date: \$6,213,411/Five year grant –04/01/96 To 03/31/01

The Grantor: National Institute of Health/National Institute of Child Health and Human Development Title of Project: Cooperative Multicenter Maternal-Fetal Medicine Units Network NIH 2 U10-HD34116-05  
Principal Investigator: Kenneth J. Leveno, M.D.  
Role of the Nominee: Co-Investigator  
Annual amount and date: \$5,254,268/Five year grant –04/01/01 To 03/31/06

The Grantor: National Institute of Health/National Institute Of Child Health and Human Development Cooperative Multicenter Maternal-Fetal Medicine Units NIH 2 U10-HD34116-11  
Title of Project: National Institute of Health/National Institute Of Child Health and Human Development  
Principal Investigator: Kenneth J. Leveno, M.D.  
Role of the Nominee: Co-Investigator  
Annual amount and date: \$1,486,944/Five year grant –04/01/06 To 03/31/11

The Grantor: National Institute of Health/National Institute Of Child Health and Human Development Cooperative Multicenter Maternal-Fetal Medicine Units NIH 2 U10-HD34116-11  
Title of Project: National Institute of Health/National Institute Of Child Health and Human Development North American Fetal Therapy Network Biannual Scientific Meeting NIH 5R13HD059293-02  
Principal Investigator: William Goodnight, MD  
Role of the Nominee: Co-Investigator  
Annual amount and date: \$30,000/Five year grant –04/06/09 To Present

#### RESEARCH PROJECTS/STUDIES:

1. “ CFTR locus in relevant tissues can be effectively targeted in utero using CRISPR/Cas9” PI Michael Zaretsky, Jennifer Matsuda, Patrick McGrath, Ganna Bilousova, Igor Kogut, Paul Rozance, Thomas Jansson, Scott Sagel, Evgenia Dobrinskikh.

2. "Fetal Growth Restriction Perlman Study" with PI John Hobbins



3. "Amniocentesis utilization in the setting of exam indicated cerclage" PI Laura Rodriguez-Riesco- published manuscript
4. "Fetal echocardiogram findings in fetal genitourinary malformations" PI Michael V. Zaretsky, MD
5. "Indications for delivery after SFLP for Twin-Twin Transfusion Syndrome" North American Fetal Therapy Network PI Michael Zaretsky, MD (2010-present)- Manuscript Published
6. "ONQ pump utilization for cesarean delivery" PI Michael V. Zaretsky - manuscript published
7. "Addition of intravenous anesthesia and early magnesium sulfate reduces inhaled anesthesia requirement during open fetal surgery for myelomeningocele repair." PI Cristina Wood and manuscript published
8. "Indomethacin dosing and constriction of the ductus arteriosus during open fetal surgery for myelomeningocele repair" PI Lisa Howley- manuscript published
9. "FDA IDE and IRB - FETO for CDH" PI Ken Liechty
10. "FDA IDE and IRB - Fetoscopic MMC repair" PI Ken Liechty
11. "MOMS Plus" PI Michael Zaretsky, MD
12. "Prenatal Diagnosis of Aqueductal Stenosis" PI Henry Galan, MD
13. "GOOD Study" Local PI Nicholas Behrendt, MD
14. "Complicated Monochorionic Twin Database" PI William Goodnight for the North American Fetal Therapy Network
15. "fMMC registry" PI Julie Moldenhauer for the North American Fetal Therapy Network
16. "Standardization of risk stratification for fetuses with isolated CDH" PI Rodrigo Ruano for the North American Fetal Therapy Network
17. "Preventive strategies for TTTS including pessary and progesterone" through George Washington University. PI Ramesh Papanna for the North American Fetal Therapy Network
18. "Sleep disorder breathing in neonates with myelomeningocele" PI Renee Shellhaas for the North American Fetal Therapy Network

19. "Variables correlating with the duration of pregnancy after selective fetoscopic laser photocoagulation" PI Michael Zaretsky, MD

20. "Comparison of congenital pulmonary airway malformations volume ratios calculated by ultrasound and magnetic resonance imaging" PI Anna Euser, MD- manuscript published

21. "Oxidative stress in fetuses with decompensated alloimmune hemolytic disease of the fetus and newborn (HDFN) North American Fetal Therapy Network PI Richard O'Shaughnessy, MD (2010-2013}

22. "Natural history registry for pregnancies complicated by lower urinary tract obstruction with normal amniotic fluid" North American Fetal Therapy Network (2010-2018)

23. "Karl Storz Fetoscopic Instrument Set for the treatment of Twin-Twin Transfusion Syndrome" (2008-present)

24. "Randomized trial of misoprostol vs. prostin for induction of labor"  
Principal Investigator: Christine Brandl, M.D., Baylor University Medical Center, Dallas, TX (1998-99)

25. "Prospective randomized clinical trial of misoprostol for induction of labor for premature rupture of membranes at term: a multicenter trial" Principal Investigator: Ellen Mozurkewich, M.D.- manuscript published

26. "Comparison between ultrasound and fetal magnetic resonance imaging in the prediction of birthweight and amniotic fluid volume" Investigators: Michael Zaretsky, M.D., Diane M. Twickler, M.D., Kenneth J. Leveno, M.D. (2001-2004)- multiple manuscripts published

## PUBLICATIONS

### Journal Articles

1. Twickler DM, Magee KP, Caire J, **Zaretsky M**, Fleckenstein JL, Ramus RM. Second-opinion magnetic resonance imaging for suspected fetal central nervous system abnormalities. Am J Obstet Gynecol 2003;188:492-6. **PMID: 12592261**

2. **Zaretsky MV**, Ramus RM, Twickler DM. Single uterine axial fast acquisition magnetic resonance fetal survey: is it feasible? J Matern Fetal Neonat Med 2003;14:107-112. **PMID: 14629091**

3. **Zaretsky MV**, Twickler DM. Magnetic resonance imaging in obstetrics. Clin Obstet Gynecol 2003;46:866-877. **PMID: 14595229**

4. Mozurkewich E, Horrocks J, Daley S, von Oeyen P, Halvorson M, Johnson M, **Zaretsky M**, Tehranifar M, Bayer-Zwirello L, Robichaux A III, Droste S, Turner G. The MisoPROM study: a multicenter randomized comparison of oral misoprostol and oxytocin for premature rupture of membranes at term. *Am J Obstet Gynecol* 2003;189:1026-30. **PMID: 14586349**
5. **Zaretsky MV**, McIntire D, Twickler DM. Feasibility of the fetal anatomic and maternal pelvic survey by magnetic resonance imaging at term. *Am J Obstet Gynecol* 2003;189:997-1001. **PMID: 14586343**
6. **Zaretsky MV**, Reichel TF, McIntire D, Twickler DM. Comparison of magnetic resonance imaging to ultrasound in the estimation of birth weight at term. *Am J Obstet Gynecol* 2003;189:1017-20. **PMID: 14586347**
7. **Zaretsky MV**, Alexander JM, Byrd W, Bawdon, RE. Transfer of inflammatory cytokines across the placenta. *Obstet Gynecol* 2004;103:546-50. **PMID: 14990420**
8. **Zaretsky MV**, Twickler DM, McIntire DD, Reichel TF, Leveno KJ. Correlation of measured amniotic fluid volume to sonographic and magnetic resonance predictions of oligohydramnios. *Am J Obstet Gynecol*. 2004;191:2148-53. **PMID: 15592305**
9. **Zaretsky MV**, Ramus RM, McIntire DD, Magee KP, Twickler DM. Magnetic resonance calculation of lung volumes to predict outcome in fetuses with genitourinary abnormalities. *AJR Am J Roentgenol* 2005;185:1328-34. **PMID: 16247158**
10. Hassibi S, Farhataziz N, **Zaretsky M**, McIntire D, Twickler DM. Optimization of fetal weight estimates using MRI: comparison of acquisitions *AJR Am J Roentgenol*. 2004;183:487-92. **PMID: 15269045**
11. Boreham M, **Zaretsky M**, Corton J, Alexander J, McIntire D, Twickler D. Appearance of the levator Ani muscle in pregnancy as assessed by 3-D MRI. *Am J Obstet Gynecol* 2005;193:2159-2164. **PMID: 16325634**
12. **Zaretsky MV**, Alexander JM, McIntire DD, Hatab MR, Twickler DM, Leveno KJ. Magnetic resonance imaging pelvimetry and the prediction of labor dystocia. *Obstet Gynecol* 2005;106:919-26. **PMID: 16260507**
13. Farhataziz N, Engels JE, Ramus RM, **Zaretsky M**, Twickler DM. Fetal MRI of urine and meconium by gestational age for the diagnosis of genitourinary and gastrointestinal abnormalities. *JR Am J Roentgenol* 2005;184:1891-7. **PMID: 15908548**
14. Hatab M, **Zaretsky M**, Alexander J, Twickler D. Comparison of fetal biometric values with sonographic and 3D reconstruction MRI in term gestations. *AJR* 2008.191:340-345. **PMID: 18647899**

15. Pates JA, **Zaretsky MV**, Alexander J, Babcock EE, McIntire DD, Twickler DM. Determining Cervical Ripeness and Labor Outcome: The Efficacy of Magnetic Resonance T<sub>2</sub> Relaxation Times. *Obstet Gynecol*. 2007 Feb;109:326-30. **PMID: 17267832**
  
16. Pates JA, Avendanio TC, **Zaretsky MV**, McIntire DD, Twickler DM. The appendix in pregnancy: confirming historical observations with a contemporary modality. *Obstet Gynecol* 2009;114:805-808. **PMID: 19888038**
  
17. **Zaretsky MV**, Somme S, Crombleholme TM. The Role of Adjunctive Medical Therapy in the Fetoscopic Surgical Treatment of Twin-Twin Transfusion Syndrome. *Amer J Perinatol* 2014 Sep;31 Suppl 1:S39-46. **PMID: 25077476**
  
18. Howley L, Wood C, Patel SS, **Zaretsky MV**, Crombleholme T, Cuneo B. Flow patterns in the ductus arterioles during open fetal myelomeningocele repair. *Prenatal Diagnosis* 2015. 35:564-70. **PMID: 25663164**
  
19. Euser AG, Meyers ML, **Zaretsky MV**, Crombleholme TM. Comparison of congenital pulmonary airway malformation volume ratios calculated by ultrasound and magnetic resonance imaging. *J Matern Fetal Neonatal Med* 2016. 29:3172-7. **PMID: 26607147**
  
20. Behrendt N, **Zaretsky MV**, West NA, Galan HL, Crombleholme TM, Meyers ML. Ultrasound versus MRI: is there a difference in measurements of the fetal lateral ventricles? *J Matern Fetal Neonatal Med* 2017. 30:298-301 **PMID: 27092972**
  
21. **Zaretsky MV**, Liechty KW, Galan HL, Behrendt NJ, Reeves S, Marwan AI, Wilkinson C, Handler M, Lagueux M, Crombleholme TM. Modified hysterotomy closure technique for open fetal surgery. *Fetal Diagn Ther* 2017 Sep 6. **PMID: 28873371**
  
22. **Zaretsky MV**, Manchester DK, Galan HL, Behrendt NJ, Marwan AI, Liechty KW, Crombleholme TM. Myometrial window following fetoscopic treatment of twin-twin transfusion syndrome: Indications of underlying vascular disease? *Clinical Case Reports* 2017. May 9. **PMID: 28588850**
  
23. Johnson MP, Danzer E, Koh J, Polzin W, Harman C, O'Shaughnessy R, Brown R, **Zaretsky MV**; North American Fetal Therapy Network (NAFTNet). History of fetal lower urinary tract obstruction with normal amniotic fluid volume at initial diagnosis. *Fetal Diagn Ther*. 2017 Jul 13. **PMID: 28700992**
  
24. **Zaretsky MV**, Wood CL, Nivens TL, McLaughlin G, Zuk J, Pan Z, Chow F. Continuous local bupivacaine wound infusion with neuraxial morphine reduces opioid consumption after cesarean delivery. *Journal of Maternal-Fetal and Neonatal Medicine*. *J Matern Fetal Neonatal Med* 2018; 30:1-8. **PMID: 29848107**

25. **Zaretsky MV**, Tong S, Lagueux M, et al. North American Fetal Therapy Network: Timing of and indications for delivery following laser ablation for twin-twin transfusion syndrome. *Am J Obstet Gynecol MFM*. 2019;1(1):74-81. **PMID: 32832884**
26. Niestadt B, Carrubba A, **Zaretsky M**. Natural Killer/T-cell lymphoma and secondary hemophagocytic lymphohistiocytosis in pregnancy. *BMJ Case Reports* 2018 Sep 15;2018. **PMID: 30219776**
27. Hobbins JC, Gumina DL, **Zaretsky M**, Driver C, Wilcox A, DeVore GR. Size and Shape of the Four-Chamber View of the Fetal Heart in Fetuses with an Estimated Fetal Weight Less than the Tenth Centile. *Am J Obstet Gynecol*. 2019 Jun 14. **PMID: 31207236**
28. **Zaretsky MV**, Rodriguez Riesco LG, Pan Z, Galan HL. Comparison of obstetrical outcomes in patients undergoing cerclage with or without amniocentesis. *J Matern Fetal Neonatal Med*. 2019 Jun 10:1-5. **PMID: 31177883**
29. Hilton SA, Hodges MM, Dewberry LC, Handler M, Galan HL, **Zaretsky MV**, Behrendt N, Marwan AI, Liechty KW. MOMS Plus: Single-Institution Review of Outcomes for Extended BMI Criteria for Open Fetal Repair of Myelomeningocele. *Fetal Diagn Ther*. 2019 May 2:1-4 **PMID: 31048584**
30. Goodnight WH, Bahtiyar O, Bennett KA, Emery SP, Lillegard JB, Fisher A, Goldstein R, Jatres J, Lim FY, McCullough L, Moehrlen U, Moldenhauer JS, Moon-Grady AJ, Ruano R, Skupski DW, Thom E, Treadwell MC, Tsao K, Wagner AJ, Waqar LN, **Zaretsky M**; fMMC Consortium sponsored by NAFTNet. Subsequent pregnancy outcomes after open maternal-fetal surgery for myelomeningocele. *Am J Obstet Gynecol*. 2019 May;220(5):494.e1-494.e7 **PMID: 30885769**
31. Howley LW, Chatterjee D, Patel SS, Cuneo BF, Crombleholme TM, Behrendt N, **Zaretsky MV**, Marwan AI, Zuk J, Galan HL, Wood C. Indomethacin Dosing and Constriction of the Ductus Arteriosus During Open Fetal Surgery for Myelomeningocele Repair. *Fetal Diagn Ther* 2019;45:339-344. **PMID: 30157479**
32. DeVore GR, **Zaretsky M**, Gumina DL, Hobbins JC. Right and left ventricular 24-segment sphericity index is abnormal in small-for-gestational-age fetuses. *Ultrasound Obstet Gynecol*. 2018 Aug;52(2):243-249. **PMID: 28745414**
33. Abbasi N, Cortes MS, Ruano R, Johnson A, Morgan T, Coleman B, Baschat A, **Zaretsky M**, Lim FY, Bulas D, Benachi A, Ryan G; NAFTNet. Variability in antenatal prognostication of fetal diaphragmatic hernia across the North American Fetal Therapy Network (NAFTNet). *Prenat Diagn*. 2019 Oct 10. **PMID: 31600412**

34. Dewberry LC, Hilton SA, **Zaretsky MV**, Behrendt N, Galan HL, Marwan AI, Liechty KW. Examination of Prenatal Sonographic Findings: Intra-Abdominal Bowel Dilation Predicts Poor Gastroschisis Outcomes. *Fetal Diagn Ther*. 2019 Aug 27;1-6. **PMID: 31454815**
35. Marwan AI, **Zaretsky M**, Feltis B. Complex multigestational anomalies. *Semin Pediatr Surg*. 2019 Aug;28(4) **PMID: 31451170**
36. Hobbins JC, Gumina DL, **Zaretsky MV**, Driver C, Wilcox A, DeVore GR. Size and shape of the four-chamber view of the fetal heart in fetuses with an estimated fetal weight less than the tenth centile. *Am J Obstet Gynecol*. 2019 Nov;221(5):495.e1-495.e9. **PMID: 31207236**
37. Bahtiyar MO, Baschat A, Deprest J, Emery S, Goodnight WH, Johnson A, McCullough L, Moldenhauer JS, Ryan G, Tsao K, Van Mieghem T, Wagner A, **Zaretsky M**. Fetal interventions in the setting of the coronavirus disease 2019 pandemic: statement from the North American Fetal Therapy Network. *Am J Obstet Gynecol*. 2020 Aug;223(2):281-284. doi: 10.1016/j.ajog.2020.04.025. Epub 2020 Apr 26. **PMID: 32348742**.
38. Dewberry LC, Trecartin A, Galambos C, Hilton SA, Dannull K, **Zaretsky MV**, Behrendt N, Galan HL, Marwan AI, Liechty KW. A congenital cystic pulmonary airway malformation occurring together with both an extralobar pulmonary sequestration and an esophageal duplication cyst. *Clin Case Rep*. 2019;8(1):18-23. **PMID: 31998479**
39. Dewberry LC, Kalia N, Vazquez J, Hilton SA, **Zaretsky MV**, Behrendt N, Galan HL, Marwan AI, Liechty KW. Determining maternal risk factors for gastroschisis using colorado's birth registry database. *J Pediatr Surg*. 2020 Jun;55(6):1002-1005. **PMID: 32173119**
40. **Zaretsky M**, Brockel M, Derderian SC, Francom C, Wood C. A Graceful EXIT impeded by obstetrical complications. *BMJ Case Rep*. 2021 Feb 5;14(2):e237911 **PMID: 33547119**
41. Porter AC, Behrendt NJ, **Zaretsky MV**, Liechty KW, Wood C, Chow F, Galan HL. Continuous local bupivacaine wound infusion reduces oral opioid use for acute postoperative pain control following myelomeningocele repair. *Am J Obstet Gynecol MFM*. 2021 Mar;3(2) **PMID: 33485023**
42. Bischoff A, Guimaraes CVA, Mirsky DM, Santos-Jasso KA, **Zaretsky MV**, Ketzer J, Hall J, Mueller C, de La Torre L, Peña A, Meyers ML. Visualization of the fetal anus by prenatal ultrasound for the diagnosis of anorectal malformations: is it feasible? *Pediatr Surg Int*. 2021 Apr;37(4):425-430. **PMID: 33399927**
43. Shahi N, Phillips R, Meier M, Grover T, Galan H, **Zaretsky M**, Meyers M, Kelley P, Marwan AI. Outcomes of Airway Management in Micrognathia and Retrognathia

Patients Born at Fetal versus Nonfetal Centers. *Fetal Diagn Ther.* 2020;47(12):933-938. **PMID: 33105131**

44. Chatterjee D, Arendt KW, Moldenhauer JS, Olutoye OA, Parikh JM, Tran KM, **Zaretsky MV**, Zhou J, Rollins MD. Anesthesia for Maternal-Fetal Interventions: A Consensus Statement From the American Society of Anesthesiologists Committees on Obstetric and Pediatric Anesthesiology and the North American Fetal Therapy Network. *Anesth Analg.* 2021 Apr 1;132(4):1164-1173. **PMID: 33048913**

45. Wood CL, Zuk J, Rollins MD, Silveira LJ, Feiner JR, **Zaretsky M**, Chatterjee D. Anesthesia for Maternal-Fetal Interventions: A Survey of Fetal Therapy Centers in the North American Fetal Therapy Network. *Fetal Diagn Ther.* 2021;48(5):361-371. **PMID: 33827094**

46. Lyttle BD, Liechty K, Corkum K, Galan H, Behrendt N, **Zaretsky M**, Bruny J, Derderian SC. *In-utero* gastric perforation from combined duodenal and esophageal atresia without consistent polyhydramnios. *J Surg Case Rep.* 2021 Dec 28;2021(12):rjab551. **PMID: 34987752**

47. Lillegard JB, Eyerly-Webb SA, Watson DA, Bahtiyar MO, Bennett KA, Emery SP, Fisher A, Goldstein RB, Goodnight WH, Lim FY, McCullough LB, Moehrlen U, Moldenhauer JS, Moon-Grady AJ, Ruano R, Skupski DW, Treadwell MC, Tsao K, Wagner AJ, **Zaretsky MV**. Placental Location in Maternal-Fetal Surgery for Myelomeningocele. *Fetal Diagn Ther.* 2021 Dec 10. doi: 10.1159/000521379. **PMID: 34915495**

48. Gien J, Kinsella JP, Behrendt NJ, **Zaretsky MV**, Galan HL, Liechty KW. Improved survival for infants with severe congenital diaphragmatic hernia. *J Perinatol.* 2022 Apr 23. doi: 10.1038/s41372-022-01397-3. Epub ahead of print. **PMID: 35461332.**

49. Atkinson MA, Jelin EB, Baschat A, Blumenfeld YJ, Chmait RH, O'Hare E, Moldenhauer JS, **Zaretsky MV**, Miller RS, Ruano R, Gonzalez JM, Johnson A, Mould WA, Davis JM, Hanley DF, Keiser AM, Rosner M, Miller JL. Design and Protocol of the Renal Anhydramnios Fetal Therapy (RAFT) Trial. *Clin Ther.* 2022 Jul 30:S0149-2918(22)00224-7. **PMID: 35918190**

50. Vaughn AE, Louiselle AE, Tong S, Niemiec SM, Ahmad S, **Zaretsky M**, Galan HL, Behrendt N, Wilkinson CC, O'Neill B, Handler M, Derderian SC, Mirsky DM, Liechty KW. Early outcomes of a myofascial repair technique for fetal myelomeningocele. *J Pediatr Surg.* 2022 Sep 26:S0022-3468(22)00626-1. doi: 10.1016/j.jpedsurg.2022.09.030. Epub ahead of print. **PMID: 36289034.**

51. Niemiec SM, Louiselle AE, Phillips R, Gien J, **Zaretsky MV**, Derderian SC, Liechty KW, Meyers ML. Third-trimester percentage predicted lung volume and percentage liver herniation as prognostic indicators in congenital diaphragmatic hernia. *Pediatr*

Radiol. 2022 Oct 27. doi: 10.1007/s00247-022-05538-w. Epub ahead of print. **PMID: 36289070.**

52. Masaracchia MM, **Zaretsky MV**, Pan Z, Zhou W, Chow FS, Wood CL. Evolution of postoperative care: marked reduction of opioid consumption when ERAC pathway added to wound soaker therapy for cesarean delivery. *J Matern Fetal Neonatal Med.* 2022 Oct 3:1-7. doi: 10.1080/14767058.2022.2130241. Epub ahead of print. **PMID: 36191923.**

53. Micke KC, Elfman HM, Fantauzzo KA, McGrath PS, Clouthier DE, McCandless SE, Larson A, Putra M, Cuneo BF, Reynolds RM, **Zaretsky MV**. Piloting a multidisciplinary approach to improve outcomes of fetal whole exome sequencing: An overview of workflow and case example. *Prenat Diagn.* 2023 Feb 9. doi: 10.1002/pd.6332. Epub ahead of print. **PMID: 36759743.**

## ABSTRACTS

1. Zaretsky MV, Andersen F. Prospective randomized clinical trial of misoprostol for induction of labor for premature rupture of membranes at term: a multicenter trial. Julian Wells Lectureship, Baylor University Medical Center, Dallas, TX, June 15, 2001.

2. Twickler DM, Magee KP, Zaretsky N, Ramus RM. Second opinion magnetic resonance imaging for suspected fetal central nervous system abnormalities. Society for Maternal-Fetal Medicine Annual Meeting, New Orleans, LA, January 14-18, 2002. *Am J Obstet Gynecol* 2001;185:S98 (#63).

3. Zaretsky MV, Ramus RM, Twickler DM. Fast acquisition magnetic resonance fetal survey: Is it feasible? Society for Gynecologic Investigation, Los Angeles, CA, March 18-23, 2002. *J Soc Gynecol Invest* 2002;9:106A (#128).

4. Reichel TF, McIntire D, Zaretsky M, Ramus RM, Magee KP, Twickler DM. Feasibility of magnetic resonance imaging in calculation of fetal weight and amniotic fluid  
Michael V. Zaretsky, M.D. - 7 volume. American Roentgen Ray Society Annual Meeting, Atlanta, GA, April 28-May 3, 2002 (#123).

5. Caire JT, Zaretsky M, Magee KP, Ramus RM, Twickler DM. MR imaging findings of complicated twin pregnancies. American Roentgen Ray Society Annual Meeting, Atlanta, GA, April 28-May 3, 2002 (#263).

6. Zaretsky MV, McIntire D, Twickler DM. Feasibility of the fetal anatomic and maternal pelvic survey by magnetic resonance imaging at term. Society for Maternal-Fetal Medicine, San Francisco, CA, Feb. 3-8, 2003. *Am J Obstet Gynecol* 2002;187:S192 (#490).



7. Zaretsky MV, Reichel TF, McIntire D, Twickler DM. Comparison of magnetic resonance imaging to ultrasound in the estimation of birth weight at term. Society for Maternal-Fetal Medicine, San Francisco, CA, Feb. 3-8, 2003. Am J Obstet Gynecol 2002;187:S192 (#491).
8. Mozurkewich E et al. for the MisoPROM Trial Group. The MisoPROM Study: A randomized controlled trial of misoprostol for premature rupture of membranes at term. Society for Maternal-Fetal Medicine, San Francisco, CA, Feb. 3-8, 2003. Am J Obstet Gynecol 2002;187:S168 (#398).
9. Zaretsky MV, Alexander J, Bawdon R. The transfer of IL-1 $\alpha$ , IL-6 and TNF- $\alpha$  in the ex-vivo human placental model. Society of Gynecologic Investigation, Washington, D.C., March 26-29, 2003. J Soc Gynecol Investig 2003;10:158A (#205).
10. Zaretsky MV, Reichel TF, McIntire D, Twickler DM. Magnetic resonance measurements of fetal head volume and pelvimetry at term. Society of Gynecologic Investigation, Washington, D.C., March 26-29, 2003. J Soc Gynecol Investig 2003;10:224A (#406).
11. Engels JE, Ramus RM, Zaretsky M, Fullington BK, Twickler DM. Ultrafast T1-weighted SPGR and T2-weighted SSFSE MR Sequences; Findings in fetal genitourinary and gastrointestinal abnormalities. American Roentgen Ray Society, San Diego, CA, May 4-9, 2003.
12. Hassibi SM, Reichel TF, Zaretsky M, McIntire DD, Twickler DM. MR Calculation of fetal weight at term: comparison of planar orientations. American Roentgen Ray Society, San Diego, CA, May 4-9, 2003.
13. Gouvion MD, Ramus RM, Zaretsky M, Twickler DM. MR evaluation of the fetal corpus callosum in relation to gestational age and CNS dysmorphology. Michael V. Zaretsky, M.D. - 8 Radiological Society of North America Annual Scientific Assembly, Chicago, Illinois, Nov. 30-Dec. 5, 2003 (#992).
14. Brandon JS, Ramus RM, Zaretsky MV, Twickler DM. Fetal magnetic resonance imaging of Chiari II malformations and associated spinal defects: Does gestational age effect ability to identify features? Radiological Society of North America Annual Scientific Assembly, Chicago, Illinois, Nov. 30-Dec. 5, 2003 (#519PD-p).
15. Zaretsky M, Ramus R, McIntire D, Magee K, Twickler DM. Magnetic resonance lung volumes in fetuses with suspected genitourinary abnormalities. Society for Maternal-Fetal Medicine, New Orleans, LA, Feb. 2-7, 2004 (#631).
16. Omar HA, Zaretsky MV, Hatab MR, Alexander JM, McIntire DD, Twickler DM. Comparison of fetal biometry measurements by MRI and ultrasound in term and postterm gestations. American Roentgen Ray Society, Miami Beach, FL, May 2-7, 2004 (Submitted).

17. Zaretsky MV, McIntire D, Reichel TF, Twickler DM. Correlation of measured amniotic fluid volume to sonographic and magnetic resonance predictions. *Am J Obstet Gynecol.* 2004 Dec;191(6):2148-53.
18. Hassibi s, Farhataziz N, Zaretsky M, McIntire D, Twickler DM. The optimization of fetal weight estimates using MRI: comparison of acquisitions. *AJR Am J Roentgenol.* 2004 Aug;183(2):487-92.
19. Gainer J, Alexander J, Zaretsky MV, McIntire D, Twickler DM, Leveno K. The use of MRI and sonographic cervical length in the post-term pregnancy. *Am J Obstet Gynecol.* 2004 Dec. S177.
20. Boreham MK, Zaretsky MV, Corton MM, Alexander JM, McIntire DD, Twickler DM. Appearance of the levator ani muscle in pregnancy as assessed by 3-D MRI.
21. Zaretsky MV, Hickman MA, McIntire D. The impact on maternal fetal medicine practice procedures after implementation of non-invasive aneuploidy screening by circulating cell-free DNA analysis. Poster Session IV SMFM February 15, 2013 San Francisco, Ca
22. Tudela CM, Hernandez JS, Zaretsky M, Sheffield JS. Ultrasound and clinical predictors of pathologic invasion in patients undergoing an emergent peripartum hysterectomy. Poster Session II SMFM February 14, 2013
23. Behrendt N, Meyers M, Zaretsky MV, West N, Galan HL, Crombleholme TM. Ultrasound versus MRI: Is There a Difference in Fetal Brain Ventricle Measurements? Poster Session I SMFM New Orleans February 6, 2014
24. Behrendt N, Zaretsky MV, Galan H, Crombleholme T. TTTS outcomes in a population with a high proportion of donor twin intrauterine growth restriction. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
25. Howley L, Behrendt N, Patel S, Jone Pei-Ni, Cuneo B, Zaretsky M, Galan H, Crombleholme TM. Novel evidence of hemodynamic changes in donor twins in TTTS: Prolonged atrioventricular valve inflow duration. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
26. Zaretsky MV, Zuk J, Pan Z, Behrendt N, Crombleholme TM. Variable correlating with duration of pregnancy after selective fetoscopic laser photocoagulation. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
27. Zaretsky MV, Zuk J, Crombleholme TM. MOMS-Plus Protocol. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.

28. Comparison of congenital pulmonary airway malformation volume ratios calculated by ultrasound and magnetic resonance imaging. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
29. Behrendt N, Zaretsky MV, Galan H, Crombleholme TM. Fetal shunt placement using fetoscope guidance. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
30. Cuneo B, Howley L, Zaretsky MV, Wood C, Crombleholme TM. Flow patterns in the fetal ductus arteries during MMC repair. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
31. Marwan A, Behrendt N, Galan H, Zaretsky MV, Liechty K, Crombleholme TM. Amnioport for the treatment of renal agensis. Oral Presentation. International Fetal Medicine and Surgical Society. Chatham, 2014.
32. Behrendt N, Jessel R, Allshouse A, Zaretsky M, Galan H, Liechty K, Marwan A, Crombleholme T. The donor survivor score (dtss): a model to predict donor twin survival following laser photocoagulation for twin-to-twin transfusion syndrome complicated by placental insufficiency. Poster Session SMFM, San Diego CA Feb 2015.
33. Zaretsky MV, Liechty KW, Galan HL, Behrendt NJ, Reeves S, Marwan AI, Wilkinson C, Handler M, Lagueux M, Crombleholme TM. Modified hysterotomy closure technique for open fetal surgery. Poster Session SMFM, Atlanta Feb 2016.
34. Howley L, Patel SS, Zaretsky M, Weisenborn E, Crombelholme T. Systolic to diastolic time index in assessment of cardiac function in twin twin transfusion syndrome cardiomyopathy. Poster Session SMFM, Atlanta Feb 2016.
35. Chatterjee D, Wood CL, Howley LW, Polaner DM, Zuk J, Zaretsky MV, Palmer C, Crombleholme T. Use of intravenous anesthetic minimizes fetal cardiac dysfunction during prenatal myelomeningocle repair. Poster Session SMFM, Atlanta Feb 2016.
36. Ehrig J, Meyers M, Behrendt N, Howley L, Cuneo B, Mirsky D, Zaretsky M, Liechty K, Crombleholme T, Galan HL. Abnormal fetal vascular studies in twin twin transfusion syndrome and their association to abnormalities in fetal brain MRI. Poster Session SMFM, Atlanta Feb 2016.
37. Rodriguez CE, Galan HL, Behrendt N, Reeves S, Liechty KW, Marwan R, Handler M, Wilkinson C, Zuk J, Pan Z, Crombleholme T, Zaretsky MV. Number of uterine contractions following open fetal myelomeningocele repair. Poster Session SRI Montreal 2016.
38. Euser AG, Zaretsky MV, Handler M, Liechty K, Marwan R, Galan HL, Reeves S, Behrendt N, Wilkinson CC, Crombleholme T. Preoperative imaging to predict need for patch in fetal myelomeningocele repair. Poster Session SRI Montreal 2016.

39. Rodriguez CE, Galan HL, Behrendt N, Reeves S, Liechty KW, Marwan R, Handler M, Wilkinson C, Zuk J, Pan Z, Crombleholme T, Zaretsky MV. Factors associated with longer duration of pregnancy after open fetal myelomeningocele repair. Poster Session SRI Montreal 2016.
40. Rodriguez-Riesco L, Pan ,Zuk J, Galan, Zaretsky M. Rescue cerclage with or without prior amniocentesis. Poster Session SRI Orlando 2017
41. Rodel R, Zaretsky M, Galan H, Behrendt N, Liechty K, Patel S, Cuneo B. Left Ventricular Sphericity Index In Fetuses With Congenital Diaphragmatic Hernia. Poster Session SRI Orlando 2017
42. Zaretsky M, Devore GR, Gumina D, Pinter M, Hobbins J. Assessment of the Global Sphericity Index and Cardiac Area as indirect indicators of cardiac dysfunction in fetal growth restriction. Poster Session SRI Orlando 2017
43. Zaretsky M, Patel S, Howley L, Galan H, Behrendt N, Liechty K, Cuneo B. Biventricular diastolic but not diastolic dysfunction is impaired in fetal lower urinary tract obstruction. Poster session SMFM Las Vegas 2017
44. Ehrig J, Paulsen K, Suhong T, Meier MR, Lagueux M, Galan HL, Zaretsky MV, Behrendt N. Use of virtual organ computer-aided analysis (VOCAL) for volume calculation compared to traditional volume calculations of fetal thoracic tumors. Poster Session SMFM Dallas 2018.
45. Zaretsky MV, Devore GR, Gumina D, Driscoll B, Hobbins J. Fetal growth restriction cardiac dysfunction is independent of Doppler indices. Poster Session SMFM Dallas 2018.
46. McKinney JR, Euser AG, Meyers ML, Mirsky DM, Zaretsky MV. Prediction of myelomeningocele/myeloschisis size and repair type by preoperative imaging. Poster Session SMFM Dallas 2018.
47. Zaretsky MV, Behrendt NJ, Lagueux M, Pan Z, Marwan AI, Liechty KW, Galan HL. Best predictors of duration and gestational age at delivery after fetoscopic laser photocoagulation for twin-twin transfusion syndrome. Poster Session SMFM Dallas 2018.
48. Howley L, Patel SS, Zaretsky M, Weisenborn E, Crombleholme T, Cuneo B, Galan HL. Systolic to diastolic time index in assessment of cardiac function in twin twin transfusion syndrome cardiomyopathy. Poster Session SMFM Dallas 2018.
48. Zaretsky MV, Tong S, Lagueux M, Lim FY, Khalek N, Emery SP, Davis S, Moon-Grady AJ, Drennan K, Treadwell MC, Petersen E, Santiago-Munoz P, Brown R, for the North American Fetal Therapy Network. North American Fetal Therapy Network:

Indications for delivery following laser ablation for twin-twin transfusion syndrome. Poster Session SMFM Dallas 2018.

49. Ehrig J, Behrendt N, Lagueux M, Liechty KW, Zaretsky MV, Crombleholme TM, Galan HL. Immediate Perioperative Predictors of Survival in TTTS. Oral Presentation SRI March 2018.

50. Goodnight WH, Bahtuyar O, Bennet KA, Emery S, Feltis BA, Fisher A, Goldstein R, Jatres J, Lim FY, McCullough L, Moehrlen U, Moldenhauer J, Grady A, Ruano R, Skupski DW, Thom E, Treadwell MC, Tsao K, Wagner AJ, Waqar LN, Zaretsky M. Subsequent pregnancy outcomes after open maternal-fetal surgery for fetal myelomeningocele closure. Opening Oral Presentation SMFM Las Vegas 2019.

51. Moldenhauer J, Bahtuyar O, Bennet KA, Emery S, Feltis BA, Fisher A, Goldstein R, Jatres J, Lim FY, McCullough L, Moehrlen U, Grady A, Goodnight WH, Ruano R, Skupski DW, Thom E, Treadwell MC, Tsao K, Wagner AJ, Waqar LN, Zaretsky M. Fetal myelomeningocele closure: outcomes from the fMMC consortium registry sponsored by NAFTNet . Poster session SMFM Las Vegas 2019.

52. Papanna R, Moldenhauer J, Bahtuyar O, Bennet KA, Emery S, Feltis BA, Fisher A, Goldstein R, Jatres J, Lim FY, McCullough L, Moehrlen U, Grady A, Goodnight WH, Ruano R, Skupski DW, Thom E, Treadwell MC, Tsao K, Wagner AJ, Waqar LN, Zaretsky M. Use of tissue grafts for in-utero spina bifida closure of large skin defects. Poster session SMFM Las Vegas 2019.

53. Adkins K, Lageaux M, Levek C, Pickett K, Zaretsky MZ. Rates of echocardiographic findings in monozygotic twins with selective intrauterine growth restriction compared to twin-twin transfusion syndrome. Poster session SRI Paris 2019.

54. Adkins K, Lageaux M, Levek C, Pickett K, Zaretsky MZ. Rates of echocardiographic findings in monozygotic twins with fluid discordance compared to twin-twin transfusion syndrome. Poster session SRI Paris 2019.

55. Micke K, Reynolds R, Zaretsky MV. First known truncating BCOR mutation in a live-born male with Lenz microphthalmia/oculofaciocardiodental syndrome. Poster presentation ACMG Seattle 2019.

56. Masaracchia MM, Wood C, Zaretsky MV, Zhou W, Pan Z, Hernandez M, Chow F. Enhanced recovery after cesarean (ERAC) delivery with local bupivacaine wound infusion. Poster Session SMFM 2021.

57. Moldenhauer J, Soni S, Bennett K, Crombleholme T, Fisher A, Goldstein R, Goodnight W, Hirose S, Jatres J, Lillegard J, McCullough L, Lim FY, Moehrlen U, Moon-Grady A, Skupski D, Thom E, Treadwell M, Tsao K, Wagner A, Zaretsky MV. Does parity impact outcomes with open maternal-fetal surgery for myelomeningocele closure? Poster Session SMFM 2020.

58. Lagueux M, Silveira L, Cuneo B, Liechty K, Marwan A, Behrendt NJ, Galan HL, Zaretsky MV. Delivery outcomes of monochorionic twins without standard twin twin transfusion staging criteria undergoing laser photocoagulation. Poster Session SMFM 2019.

59. Peterson E, Bennett K, Crombleholme T, Fisher A, Goldstein R, Goodnight W, Hirose S, Jatres J, Lillegard J, Lim FY, Laurence M, Moehrlen U, Moldenhauer J, Moon-Grady A, Skupski D, Thom E, Treadwell M, Tsao K, Wagner A, Zaretsky MV. Perinatal outcomes after fetal resuscitation during fetal MMC closure. Poster Session SMFM 2019.

60. Zaretsky MV, Liechty K, Behrendt N, Derderian S, Galan H, Silveira L. Association of open fetal MMC repair post-operative cervical length and gestational age at delivery. Poster Session SMFM 2022

61. Micke, KC; Galan HL, Zaretsky M. Multiple minor anomalies lead to the diagnosis of a rare genetic disorder: Mosaic trisomy 14. ISPD 2022, Montreal. Poster Session

62. Micke KC, Elfman, H, Coughlin, C, Jones K, Reynolds R, Larson A, McCandless S, Zaretsky M. Piloting a multidisciplinary approach for fetal exome sequencing to optimize yield and patient management. ISPD 2022, Montreal. Poster Session

63. Miller JL, Baschat AA, Rosner M, Blumenfeld YJ, Moldenhauer J, Johnson A, Schenone M, Zaretsky MV, Chmait RH, Velez JG, Miller RS, Moon-Grady AJ, Bendel-Stenzel EM, Keiser A, Avadhani R, Jelin A, Davis J, Warren D, Hanley D, Atkinson M. Neonatal survival after serial amniotomies for fetal bilateral renal agenesis: report from the raft trial, American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Pages S766-S767,

64. Krispin E, Javinani A, Odibo AO, Miller JL, Stirnemann J, Khalil A, Hecher K, Chmait RH, Carreras E, Habli M, Emery S, Sepúlveda G, Kilby M, Lewi L, Otano L, Zaretsky MV, Sananès N, Yinon Y, William WA, Turan OM, Bannasr M, Papanna R, Slaghekke F, Miegheem TV, Shamshirsaz A. Consensus protocols for the management of early and late twin-twin-transfusion-syndrome (TTTS), a delphi study, American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Pages S638-S639,

65. Bergh EP, Baschat AA, Hedrick H, Lim FY, Magee K, Ryan G, Cortes MS, Schenone M, Zaretsky MV, Johnson A. Fetoscopic endoluminal tracheal occlusion (FETO) versus expectant care of severe left-diaphragmatic hernia in north america, American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Pages S44-S45,

66. Wautlet CK, Cuneo B, Kops S, Solomon B, Snyder K, Silveira L, Behrendt N, Zaretsky MV, Henry L. Galan. Fetal single ventricle defects are associated with high

rates of growth restriction and intrauterine demise, American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Page S117,

67. Micke K, Elfman H, Reynolds R, Austin L, Shawn M, Zaretsky MV, Multidisciplinary committee's impact on prenatal whole exome sequencing variant interpretation. American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Page S345,

68. Kops S, Cuneo B, Kaizer A, Wautlet CK, Gilbert L, Snyder K, Zaretsky MV, Behrendt N, Galan HL, Grenier M. Fetal characteristics and neonatal outcomes in single ventricle cardiac defects diagnosed in utero, American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Pages S222-S223,

69. Wautlet CK, Cuneo B, Kops S, Solomon B, Snyder K, Silveira L, Nivens T, Chow F, Behrendt N, Zaretsky MV, Galan HL. Delivery outcomes of fetal single ventricle cardiac defects: Results of a multi-disciplinary approach, American Journal of Obstetrics and Gynecology, Volume 228, Issue 1, Supplement, 2023, Pages S116-S117,

## Chapters

1. Zaretsky, M. 2013. Fetal Therapy. Nezhat's Video Assisted and Robotic Assisted Laparoscopy and Hysteroscopy, 4th Edition. Cambridge University Press. 2013
2. Zaretsky, M 2013 Multiple and Higher Order Gestation. Inside healthcare-ICU care of the neonate. eBook. Mathew Oommen, MD.

## CME Courses

1. Co-Director "Advances in Fetal Echo" Children's Medical Center of Dallas 2010 and 2012
2. Director "Controversies in OB/GYN" Children's Medical Center of Legacy 2009-2012
3. Hands on Ultrasound Course. Faculty. ACOG National Convention 2014-2017
4. NAFTNet Fetal Therapy Course. SMFM 2016 and AIUM 2017
5. Colorado Fetal Care Center Fetology Conference 2016 and 2017. Vail, Colorado.
6. SMFM OB/GYN clinical debates post graduate course 2018
7. SMFM Twins Post Graduate Course 2019

8. SMFM NAFTNet: Bridging prenatal diagnosis and postnatal management  
Post-Graduate Course 2021

Presentations

1. "What to Expect When Expecting Multiples" 2004 Plano Mothers of Multiples
2. "Fetal MRI" 2004 Presbyterian Hospital of Plano OB/GYN grand rounds.
3. "Fetal Loss" 2005, 2006, 2008. Healing Matters Medical Center of Plano.
4. "Cerclage or Not to Cerclage" 2005 Presbyterian Hospital of Plano OB/GYN grand rounds.
5. "Progesterone Therapy for Preterm Labor: 2005 Association of Women's Health, Obstetric, and Neonatal Nurses (AWHONN).
6. "First Trimester Aneuploidy Screening" 2005 NTD labs
7. "Multiple Gestation" Lecture to rotating medical students 2006-2013
8. "Alloimmunization" Lecture to rotating medical students 2007-2013
9. "Fetal Anemia and Thrombocytopenia" Grand Rounds for Ultrasound in Obstetrics 08/10/2007
10. "Innovations in Antenatal Care" Baylor University Medical Center GME Reunion-2007
11. Osler Board Review lectures 2006-2008
  - "Preterm Labor"
  - "Post-term Pregnancy"
  - "Pregnancy Loss"
  - "Postpartum Complications"
12. Osler Board Review private and public mock oral exams 2006-2008
13. Baylor University Medical Center GME Reunion 2007
14. Grand Rounds for Ultrasound in Obstetrics Twin-Twin Transfusion Syndrome UT Southwestern Medical Center Dept. OB/GYN 2008
15. Prenatal Diagnosis and Screening, Association of Women's Health Obstetric and Neonatal Nurses 2009, 2010



16. Cerclage for a Short Cervix, Controversies in OB/GYN Children's Legacy 2010
17. Antiphospholipid Antibody Syndrome, Controversies in OB/GYN Children's Legacy 2010
18. Update on Twin-Twin Transfusion Syndrome, Advances in Fetal Echo Course Children's Medical Center 2010
19. Circulating Cell-Free DNA Non-invasive Aneuploidy Screening Controversies in OB/GYN Children's Legacy 2012
20. Fetal anemia: Diagnosis and Treatment, Advances in Fetal Echo Course. Dallas Museum of Art 2012
21. Non-Invasive Aneuploidy Screening. Southwestern Gynecologic Assembly. Dallas Westin Galleria 2012
22. Preventive Strategies for Preterm Birth. Butterfield Conference 2013 Laramie, Wyoming.
23. Aneuploidy Screening. Butterfield Conference 2013 Laramie, Wyoming.
24. Ultrasound in Multiple Gestation. Fetal Imaging and Perinatal Care Conference, UC Denver, 2014
25. Labor and Delivery Sonogram. ACOG Postgraduate Course Hands-On Ultrasound course, 2014, 2015
26. Updates in OB/GYN What's New! What's Changed! Colorado Springs, Butterfield Conference 2014
27. Ultrasound Unknowns. MFM Fellow lectures 2013-2018
28. CFCC Multidisciplinary Conference 2013-Present
29. International Fetal Medicine and Surgical Society Meeting Chatham, 9/2014  
Oral Presentations
  1. MOMS-Plus
  2. Variables correlating with the duration of pregnancy after SFLP
  3. Comparison of congenital pulmonary airway malformations volume ratios calculated by ultrasound and magnetic resonance imaging
  4. Fetal shunt placement using fetoscope guidance
  5. TTTS outcomes in a population with high proportion of donor twin growth restriction

30. Twin twin transfusion syndrome. SMFM North American Fetal Therapy Network Fetal therapy course. Atlanta 2016.
31. 37th Annual Perinatal Clinical Update 2016. Prenatal screening and diagnosis. Children's Hospital of Colorado.
32. Spina Bifida. Fetal Imaging and Perinatal Care Conference, UC Denver, 2016.
33. Inaugural Fetology Conference 2016, Vail Colorado.
  - "MOMS Plus protocol"
  - "Debate for expansion of inclusion criteria for prenatal myelomeningocele repair"
  - "Congenital diaphragmatic hernia delivery dilemmas"
34. Preterm delivery -NP Midwifery Program CU Denver 2015- present
35. Perinatal ethics rounds- 2016-2018
36. Non-Invasive Fetal Therapy. Society of Pediatric Pathology, Denver 2017.
37. SMFM OB/GYN Clinical Debates: Selective Fetal Growth Restriction, the Case for Expectant Management, Dallas 2018
38. Selective Fetal Growth Restriction. The 39th Annual Perinatal Clinical Update Recent Advances and Current Controversies. Denver 2018.
39. Society of Pediatric Urology. Multidisciplinary clinical and research collaborations through the CFCC and NAFTNET. Atlanta 2018.
40. Selective Fetal Growth Restriction. St. Marys Hospital Grand Junction Grand Rounds 2019
41. Selective Fetal Growth Restriction. Mayo Clinic Grand Rounds 2019
42. Spina Bifida. Genetics Symposium 2020. Children's Hospital of Colorado
43. When fetal tumors go bad- SMFM Post-Graduate Course 2021  
NAFTNet: Bridging prenatal diagnosis and postnatal management
44. Moderator with Lyn Simpson, MD for Fetal Therapy Oral Plenary SMFM 2021
45. Challenging Fetal Cases- 18th Annual Fetal Imaging Conference 2021
46. Fetal Anemia- Fellows Lecture University of Arizona 9/2021
47. Fetal Therapy: Past, Present, and Future- Vail OB/GYN Conference 2/2022

48. In utero gene editing research update- CU MFM Division 3/2/2022
49. In utero gene editing research update- CHCO Cystic Fibrosis Research Group 6/2022
50. In Utero gene editing research update- Perinatal Research Facility 5/2022
51. Poster judge 2022 Obstetrics and Gynecology Research Retreat- Division of Reproductive Sciences University of Colorado Schools of Medicine

## Mentees

Anna Euser, MD- Publication of manuscript “Comparison of congenital pulmonary airway malformation volume ratios calculated by ultrasound and magnetic resonance imaging” Dr. Euser is maternal fetal medicine attending at CU Anschutz SOM

Megan Lagueux- research coordinator at the Colorado Fetal Care Center- Manuscript “North American Fetal Therapy Network: Timing of and indications for delivery following laser ablation for twin-twin transfusion syndrome”- Completed Nursing degree

Rodriguez Riesco, MD- Manuscript “Comparison of obstetrical outcomes in patients undergoing cerclage with or without amniocentesis”- High risk obstetrician practicing in Argentina

Sarah Hilton, MD, Maggie Hodges, MD, Lindel Dewberry, MD, Bailey Lyttle, MD - Pediatric Surgery Fellows with following manuscripts:

“A congenital cystic pulmonary airway malformation occurring together with both an extralobar pulmonary sequestration and an esophageal duplication cyst.”

“Examination of Prenatal Sonographic Findings: Intra-Abdominal Bowel Dilation Predicts Poor Gastroschisis Outcomes”

“MOMS Plus: Single-Institution Review of Outcomes for Extended BMI Criteria for Open Fetal Repair of Myelomeningocele”

“*In-utero* gastric perforation from combined duodenal and esophageal atresia without consistent polyhydramnios”

Aakriti Carrubba, MD- Manuscript “Natural Killer/T-cell lymphoma and secondary hemophagocytic lymphohistiocytosis in pregnancy”- Minimally Invasive Gynecologist at the Mayo Clinic

Kestutis Micke- Genetic Counselor at Colorado Fetal Care Center- multiple abstracts at ACGME and ISPD and now directs the Fetal Precision Medicine Board at Children's Hospital of Colorado.

Manesha Putra, MD- Maternal fetal medicine specialist and genetics resident for project "Quantification of paternal sperm mosaicism in apparently de novo mutations in prenatally diagnosed congenital anomaly cases"

Cynthia Wautlet. MFM Fellow. Project analyzing cardiac indices in selective fetal growth restriction. 2022-present.

Non-peer reviewed scientific publications

1. Dallas Child "When Pregnancy and Cancer Collide" 2008
2. Parkland Fall Magazine 2009 "Innovative Care for Babies"
3. Parkland Spring Magazine 2009 "Babies' lives saved before they are born"
4. Children's Medical Center 2009 Annual Report "Answering the Toughest Question"
5. Children's Medical Center 2010 Annual Report "A Matter of Minutes"
6. "Your Child's Health" 2009 WFAA Channel 8 "Pregnancy later in life"
7. "Your Child's Health" 2009 WFAA Channel 8 "Preparing your body for pregnancy"
8. UTSW Newsroom 2011 "UT Southwestern specialists perform area's first fetal surgery to correct Twin-Twin Transfusion Syndrome"
9. Multiple media outlets nationally "Unborn Twins undergo surgery" 2011
10. The Great Candy Run. Colorado and Company Channel 9 News, Denver. Nov 2016
11. Meet our Docs, Michael Zaretsky, MD: Children's Hospital of Colorado 2017
12. Congenital Diaphragmatic Hernia educational video, Colorado Fetal Care Center. 2018.  
<https://www.childrenscolorado.org/doctors-and-departments/departments/colorado-fetal-care-center/healthcare-professionals/maternal-fetal-medicine-education-videos/>
13. Fetoscopic endoluminal tracheal occlusion educational video, Colorado Fetal Care Center 2019.  
<https://www.childrenscolorado.org/doctors-and-departments/departments/colorado-fetal-care-center/healthcare-professionals/maternal-fetal-medicine-education-videos/>

14. APSA Handbook on Fetal Diagnosis and Therapy. A reference handbook for pediatric surgeons. April 2019.
15. Colorado Fetal Care Center Virtual Reunion 2020, Facebook
16. Delivery Indications after laser ablation for TTTS educational video. Colorado Fetal Care Center 2020  
<https://www.childrenscolorado.org/doctors-and-departments/departments/colorado-fetal-care-center/healthcare-professionals/maternal-fetal-medicine-education-videos/>
17. 2021 Webinar on germ line gene editing- CPU and Denver Museum Nature and Science: Cut, Paste, Delete: The Ethics of Genome Editing and Humanity's Hereditary Future.  
<https://www.facebook.com/15645844443/videos/cut-paste-delete-the-ethics-of-gene-editing-and-humanitys-hereditary-future/844301949491329/>
18. Summer Internship Gates Center for Regenerative Medicine- Seminar on ethics of gene editing 2021 and 2022
19. Colorado Fetal Care Center Educational Video on CRISPR with Patrick McGrath, PhD 2021  
<https://www.childrenscolorado.org/doctors-and-departments/departments/colorado-fetal-care-center/healthcare-professionals/maternal-fetal-medicine-education-videos/>
20. Colorado Fetal Care Center Educational Video on anesthesia in labor and delivery with Cristina Wood, MD 2021  
<https://www.childrenscolorado.org/doctors-and-departments/departments/colorado-fetal-care-center/healthcare-professionals/maternal-fetal-medicine-education-videos/>
21. Colorado Fetal Care Center animated education video on Twin Twin Transfusion Syndrome- graphics artist/animation by Nathaniel Billington  
<https://www.childrenscolorado.org/doctors-and-departments/departments/colorado-fetal-care-center/services/fetosopic-laser-surgery/>
22. Q Magazine February 2021 Children's Hospital of Colorado <https://joom.ag/dIWI/p4>  
Plan pump for obstetrical anesthesia
23. Q Magazine August 2021 Children's Hospital of Colorado <https://joom.ag/DLSI/p6>  
GU anomalies working group at the CFCC
24. Q Magazine May 2021 Children's Hospital of Colorado <https://joom.ag/D4JI/p6>  
Unique approach to laser ablation for TTTS

25. Q Magazine July 2022 Children's Hospital of Colorado Gene Therapy of Cystic Fibrosis <https://www.childrenscolorado.org/research-innovation/research-area/maternal-fetal-medicine/gene-therapy-for-cystic-fibrosis/>