

**CURRICULUM VITAE  
SARAH MARIE DAVIS, M.D.**

Division of Maternal-Fetal Medicine  
Department of OB/GYN  
Women & Infants Hospital of Rhode Island  
101 Dudley Street  
Providence, RI 02905-2499

Phone: (401) 274-1122, extension 47452  
Fax: (401) 453-7622  
Email: [smdavis@wihri.org](mailto:smdavis@wihri.org)

**EDUCATION**

Undergraduate Eastern Mennonite University, Biology, B.A., *magna cum laude*, 1998-2002  
Honors: Cords of Distinction Award  
Medical School Penn State College of Medicine, M.D., 2002-2006, Doctor of Medicine 2006.

**POSTGRADUATE TRAINING**

Residency Obstetrics and Gynecology, Department of Obstetrics and Gynecology, University of Utah Health Care, 50 N. Medical Drive, Salt Lake City, UT, 84132, 2006-2010  
Fellowship Maternal-Fetal Medicine, Department of Obstetrics, Gynecology & Reproductive Sciences, University of Vermont, 111 Colchester Ave, Burlington, VT 05401, 2010-2013

**POSTGRADUATE HONORS AND AWARDS**

2009 The Michael W. Varner, M.D. Resident Research Award, Second place, Department of Obstetrics and Gynecology, University of Utah, Salt Lake City, UT  
2011 Selected participant, 23rd Annual NICHD Conference on Maternal-Fetal-Neonatal-Reproductive Medicine, Itasca, IL  
2012 Best New Investigator Poster Presentation Award, Society for Gynecologic Investigation, San Diego, CA  
2012 Selected participant, Excellence in Clinical Research course, San Diego, CA  
2015 Obstetrics & Gynecology: Top 10% of Peer Reviewers  
2016 CG CAHPS Dean's List for extraordinary patient satisfaction, scoring in the 99th percentile among providers nationwide. PennState Health: Milton S. Hershey Medical Center  
2016 Obstetrics & Gynecology: Top 10% of Peer Reviewers  
2017-present Scholar, Brown University/Women & Infants Hospital Women's Reproductive Health Research (WRHR K12) Career Development Program: Improving Women's Health Through Career Development in Clinical Research  
2018-present Hassenfeld Child Health Innovation Institute Award, Brown University

**PROFESSIONAL LICENSES AND BOARD CERTIFICATION**

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State medical licensure

2007-2012	State of Utah License Physician Medical License: 6803854-1205, 6803854-8905
2010-2014	State of Vermont License Physician Medical License: 042.0011972
2013-2016	State of Pennsylvania License Physician Medical License: MD449808
2015-present	State of Rhode Island License Physician Medical License: MD15152
2015-present	Commonwealth of Massachusetts License Physician Medical License: 265332

Board certification

2013	Diplomate, American Board of Obstetrics & Gynecology, Obstetrics & Gynecology
2015	Diplomate, American Board of Obstetrics & Gynecology, Maternal-Fetal Medicine

ACADEMIC APPOINTMENTS

2013-2015	Assistant Professor, Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, Penn State College of Medicine, Hershey, PA
2015-2017	Assistant Professor (Clinical), Maternal-Fetal Medicine, Obstetrics & Gynecology at the Warren Alpert Medical School of Brown University, Providence, RI
2017-present	Assistant Professor, Maternal-Fetal Medicine, Obstetrics & Gynecology at the Warren Alpert Medical School of Brown University, Providence, RI

HOSPITAL APPOINTMENTS

2010-2013	Clinical Instructor, University of Vermont Department of Obstetrics, Gynecology & Reproductive Sciences, Burlington, VT
2013-2015	Assistant Professor, Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, Penn State Milton S. Hershey Medical Center, Hershey, PA
2015-present	Maternal-Fetal Medicine Specialist, Division of Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, Women & Infants Hospital of Rhode Island, Providence, RI
2016-present	Consulting physician, Obstetrics and Gynecology, Rhode Island Hospital, Providence, RI
2016-present	Medical staff, Obstetrics – Maternal Fetal Medicine, Southcoast Health, Fall River, MA

OTHER APPOINTMENTS

2014-present	Peer Reviewer: Obstetrics & Gynecology
2016	Ad hoc member, Center for Disease Control (CDC) Special Emphasis Panel (SEP): <u>IP16-001</u> : “Research on the Epidemiology, Vaccine Effectiveness and Treatment of Influenza and Other Respiratory Viruses in Southeast Asia and the Western Pacific” <u>IP16-002</u> : “Annual Estimates of Influenza Vaccine Effectiveness for Preventing Medically Attended Laboratory-Confirmed Influenza in the

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United States”  
2016-present Institution representative (PI) for Fetal Treatment Program of New  
England, North American Fetal Therapy Network (NAFTNet)  
2017 Ad hoc reviewer: Public Library of Science (PLOS) ONE

#### HOSPITAL COMMITTEES

2014-2015 Delivery Room Committee, Penn State Milton S. Hershey Medical  
Center, Hershey, PA  
2016-2017 Member, Care New England Simulation Steering Committee

#### UNIVERSITY COMMITTEES

2008-2010 Student Advisory Committee, Department of Obstetrics and  
Gynecology, University of Utah, Salt Lake City, UT  
2011-2012 Program Representative, Graduate Medical Education, University of  
Vermont, Burlington, VT  
2014-2015 Obstetrics & Gynecology Departmental Research Committee, Penn  
State Milton S. Hershey Medical Center, Hershey, PA  
2015-present Obstetrics program leader, Resident simulation training, Obstetrics &  
Gynecology at the Warren Alpert Medical School of Brown University,  
Providence, RI  
2016-present Member, Program Evaluation Committee, Maternal-Fetal Medicine  
fellowship, The Warren Alpert Medical School of Brown University,  
Providence, RI

#### MEMBERSHIP IN SOCIETIES

2006-present The American Congress of Obstetricians and Gynecologists  
2010-present Society for Maternal-Fetal Medicine  
2012-2013 Society for Gynecologic Investigation, in-training membership  
2014-present American Institute of Ultrasound in Medicine  
2016-present Institution representative (PI) for Fetal Treatment Program of New  
England, North American Fetal Therapy Network (NAFTNet)  
2016-present Member, American Society for Reproductive Immunology

#### PUBLICATION LIST

##### ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Davis SM**, Clark EA, Nelson LT, Silver RM. The association of innate immune response gene polymorphisms and puerperal group A streptococcal sepsis. *Am J Obstet Gynecol.* 2010 Mar;202(3):308.e1-8.
2. Allaf MB, Vintzileos AM, Chavez MR, Wax JA, Ravangard SF, Figueroa R, Borgida A, Shamshirsaz A, Markenson G, **Davis S**, Habenicht R, Haeri S, Ozhand A, Johnson J, Sangi-Haghpeykar H, Spiel M, Ruano R, Meyer M, Belfort MA, Ogburn P, Campbell WA, Shamshirsaz AA. First-trimester sonographic prediction of obstetric and neonatal outcomes in monochorionic diamniotic twin pregnancies. *J Ultrasound Med.* 2014 Jan;33(1):135-40.
3. Allaf MB, Campbell WA, Vintzileos AM, Haeri S, Javadian P, Shamshirsaz AA, Ogburn P, Figueroa R, Wax J, Markenson G, Chavez MR, Ravangard SF, Ruano R, Sangi-Haghpeykar H, Salmanian B, Meyer M, Johnson J, Ozhand A, **Davis S**, Borgida A, Belfort MA, Shamshirsaz AA. Does early second-trimester sonography predict adverse perinatal outcomes in monochorionic diamniotic twin pregnancies? *J Ultrasound Med.* 2014 Sep;33(9):1573-8.
4. **Davis SM**, Sweet LM, Oppenheimer KH, Suratt B, Phillippe M. Estradiol and

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progesterone influence on influenza infection and immune response in a mouse model. *Am J Reprod Immunol*. 2017 Oct;78(4).

#### OTHER PEER-REVIEWED PUBLICATIONS

1. Cheng S-B, **Davis S**, Sharma S. Maternal-Fetal cross talk through cell-free DNA, telomere shortening, microchimerism, and inflammation. *Am J Reprod Immunol*. 2018;e12851.

#### BOOKS AND BOOK CHAPTERS

1. **Davis SM**, Branch DW. *Thromboprophylaxis in pregnancy: who and how?* *Obstet Gynecol Clin North Am*. 2010 Jun;37(2):333-43.
2. Klein LL, **Davis SM**, Moore M, Silver B, Feltovich H, Krakow D (2012). Abnormal Hands: Number of Fingers. In: Copel, D'Alton, Gratacos, Platt, Tutschek, Feltovich, Odibo (Eds). *Obstetric Imaging* (pp. 323-329). Philadelphia: Elsevier Saunders.
3. **Davis SM**, Silver B, Feltovich H, Krakow D (2012). Abnormal Hands: Thumbs. In: Copel, D'Alton, Gratacos, Platt, Tutschek, Feltovich, Odibo (Eds). *Obstetric Imaging* (pp. 320-323). Philadelphia: Elsevier Saunders.

#### PUBLICATIONS SUBMITTED OR IN PREPARATION

1. North American Fetal Therapy Network: Timing of and indications for delivery following laser ablation for twin-twin transfusion syndrome. Zaretsky M, 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. Manuscript submitted to the *American Journal of Obstetrics and Gynecology*, submitted March 2, 2018.

#### ABSTRACTS

1. **Davis SM**, Clark EA, Nelson LT, Silver RM. The Association between Innate Immune Response Gene Polymorphisms and Puerperal Group A Streptococcal Sepsis Morbidity. 2009 Central Association of Obstetricians and Gynecologists 76<sup>th</sup> Annual Meeting, Maui, HI. **ORAL**
2. Clark AS, Spargen PF, **Davis SM**, Wilson AR, Augustine NH, Martins TB, Silver RM, Hill HR. Puerperal Group A Streptococcal Sepsis and Proinflammatory Immune Response. 2010 Society for Gynecologic Investigation Annual Scientific Meeting, Orlando, FL.
3. **Davis SM**, Sweet L, Oppenheimer K, Phillippe M. Sex Steroid Effect on Influenza Infection. 2012 Society for Gynecologic Investigation Annual Scientific Meeting, San Diego, CA. **Best New Investigator Poster Presentation Award**
4. Phillippe M, **Davis SM**, Sweet LM. Synergistic Effects of Bacterial PAMPs on Influenza Infection During Pregnancy. 2012 Society for Gynecologic Investigation Annual Scientific Meeting, San Diego, CA.
5. **Davis SM**, Sweet L, Oppenheimer K, Phillippe M. Estradiol and Progesterone Influence on TLR Signaling Pathway Gene Expression during Influenza Infection. 2013 Society for Gynecologic Investigation Annual Scientific Meeting, Orlando, FL. **ORAL**
6. North American Fetal Therapy Network: Indications for delivery following laser ablation for twin-twin transfusion syndrome. Zaretsky M, 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. 2018 Society for Maternal-Fetal Medicine Annual Meeting, Dallas, TX.

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## SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

### PEER-REVIEWED

1. Clinical Expert Series: Ask the Experts. A practical approach to fetal growth restriction. Copel JA, Bahtiyar MO. *Obstetrics & Gynecology*. 123(5):1057-1069, May 2014. Questions written by Sarah Davis, MD. [www.greenjournal.org](http://www.greenjournal.org)

## INVITED PRESENTATIONS

### *Local/Regional*

1. *Thromboprophylaxis in pregnancy: who & how*. Grand Rounds, Department of Obstetrics and Gynecology, The University of Utah School of Medicine, Salt Lake City, UT. December 10, 2009.
2. *Estradiol and progesterone influence on influenza infection in a mouse model*. Vermont Lung Center, Burlington, VT. September 10, 2013.
3. *Timing of umbilical cord clamping after birth*. Perinatal conference, Penn State Milton S. Hershey Medical Center, Hershey, PA. April 18, 2014.
4. *Estradiol and progesterone influence on influenza infection in a mouse model and influenza update*. Grand Rounds, Department of Obstetrics and Gynecology, Penn State Milton S. Hershey Medical Center, Hershey, PA. October 15, 2014.
5. *A case of suspected multicystic dysplastic kidney*. Multidisciplinary Antenatal Diagnosis and Management (M.A.D.A.M.) Conference, The Program in Fetal Medicine, Alpert School of Medicine at Brown University, Women & Infants Hospital, Providence, RI. December 4, 2015.
6. *Patient Round Up*. Multidisciplinary Antenatal Diagnosis and Management (M.A.D.A.M.) Conference, The Program in Fetal Medicine, Alpert School of Medicine at Brown University, Women & Infants Hospital, Providence, RI. January 6, 2017.
7. *Patient Round Up*. Multidisciplinary Antenatal Diagnosis and Management (M.A.D.A.M.) Conference, The Program in Fetal Medicine, Alpert School of Medicine at Brown University, Women & Infants Hospital, Providence, RI. March 3, 2017.
8. *Patient Round Up*. Multidisciplinary Antenatal Diagnosis and Management (M.A.D.A.M.) Conference, The Program in Fetal Medicine, Alpert School of Medicine at Brown University, Women & Infants Hospital, Providence, RI. July 7, 2017.
9. *CPC: HIE and anemia in a late preterm infant*. Perinatal Management Conference, Department of Pediatrics, Alpert School of Medicine at Brown University, Women & Infants Hospital, Providence, RI. September 6, 2017.
10. *Biology of Pregnancy: An Overview*. Reproductive and Perinatal Epidemiology at the Brown School of Public Health, Providence, Rhode Island. September 18, 2017.
11. *Patient Round Up*. Multidisciplinary Antenatal Diagnosis and Management (M.A.D.A.M.) Conference, The Program in Fetal Medicine, Alpert School of Medicine at Brown University, Women & Infants Hospital, Providence, RI. March 16, 2018.

## GRANTS

### **Completed funding**

1. *The study of cell-free DNA, inflammation, and trophoblast apoptosis*  
Center of Biomedical Research Excellence (COBRE) for Reproductive Health  
Pilot Project, Women and Infants Hospital, Brown University  
Role: PI

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Dates: 10/01/2017-03/31/2018

Funding (direct): \$33,180

### Ongoing funding

1. *Brown University/Women & Infants Hospital Women's Reproductive Health Research (WRHR) Career Development Program: Improving Women's Health Through Career Development in Clinical Research*  
NIH/NICHD: 5 K12 HD050108 13  
Role: Scholar (02/2017-current), PI-Phipps  
Dates: 7/1/2015-6/30/2020  
Funding (direct): \$312,324
2. *Mechanisms underlying obstetric pathobiology: the study of cell-free fetal DNA, TLR9 mediated inflammation, and parturition using human in vitro modeling*  
Oh-Zopfi Pilot Project Grant Program, William and Mary Oh – William and Elsa Zopfi Professorship in Pediatrics for Perinatal Research  
Brown University and Women & Infants Hospital  
Role: PI  
Dates: 6/1/2017-5/30/2018  
Funding (direct): \$13,450
3. *The association between fetal telomeres, placental apoptosis, parturition, and health disparities*  
Hassenfeld Child Health Innovation Institute, Alpert Medical School of Brown University  
Role: PI  
Dates: 01/01/2018-12/31/2018  
Funding (direct): \$25,000

### UNIVERSITY TEACHING ROLES

07/2010-09/2013	Obstetrics and Gynecology resident lecturer, The University of Vermont Medical Center, Burlington, VT (Class size 12)
07/2011-09/2013	Medical student mentor, The University of Vermont College of Medicine, Burlington, VT
07/2011-09/2013	Medical student lecturer, The University of Vermont College of Medicine, Burlington, VT (Class size 15)
11/2013-09/2015	Obstetrics and Gynecology resident lecturer, Penn State Milton S. Hershey Medical Center, Hershey, PA (Class size 20)
11/2013-09/2015	Maternal-Fetal Medicine fellowship lecturer, Penn State Milton S. Hershey Medical Center, Hershey, PA (Class size 3)
2014-09/2015	Medical student mentor, Penn State College of Medicine, Hershey, PA
2015-current	Obstetrics and Gynecology resident lecturer, The Warren Alpert Medical School of Brown University, Providence, RI (Class size 32)
2015-current	Resident simulation training, Obstetrics program leader, Obstetrics & Gynecology at the Warren Alpert Medical School of Brown University, Providence, RI (Class size 32)
2016-current	Course co-director, BIOL 6505, Introduction to Fetal Medicine. The Warren Alpert Medical School of Brown University, Providence, RI <a href="http://med.brown.edu/pedisurg/Fetal/Seminar/FetalSeminar.html">http://med.brown.edu/pedisurg/Fetal/Seminar/FetalSeminar.html</a>
2016-current	Maternal-Fetal Medicine fellowship lecturer, Maternal-Fetal Medicine fellowship program, The Warren Alpert Medical School of Brown

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- 2016-current University, Providence, RI (Class size 3)  
Resident research mentor, Obstetrics and Gynecology residency program, The Warren Alpert Medical School of Brown University, Providence, RI
1. 2016-present: Katherine Miller, "Is anterior location of placenta previa associated with higher incidence of placenta accreta in women undergoing repeat cesarean delivery?"
  2. 2016-present: Libertad Flores, "Antenatal education and maternal satisfaction with inpatient postpartum care"

HOSPITAL TEACHING ROLES

05/2014 Fetal Cardiac Imaging, Maternal-Fetal Medicine Sonographer Education, Penn State Milton S. Hershey Medical Center, Hershey, PA (Class size 5)