

Curriculum Vitae

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Name: Anjali Joann Kaimal, MD, MAS

Office Address: University of South Florida Morsani College of Medicine
Department of Obstetrics and Gynecology
Maternal-Fetal Medicine
2 Tampa General Circle, 6th Floor Tampa, FL 33606 (mailing and physical)

Education

08/93-05/97	BA summa cum laude	Psychology/Policy Studies	Rice University
08/98-06/02	MD	Medicine	Harvard Medical School
09/07-06/09	MAS	Clinical Research	University of California, San Francisco

Postdoctoral Training

06/02-06/03	Intern	Obstetrics & Gynecology	BWH/MGH Integrated Residency Program
07/03-06/06	Resident	Obstetrics & Gynecology	BWH/MGH Integrated Residency Program
07/06-06/09	Fellow	Maternal-Fetal Medicine	University of California, San Francisco

Faculty Academic Appointments

09/09-06/11	Instructor	Obstetrics, Gynecology and Reproductive Biology	Harvard Medical School
06/11-09/17	Assistant Professor	Obstetrics, Gynecology and Reproductive Biology	Harvard Medical School
09/17-07/22	Associate Professor	Obstetrics, Gynecology and Reproductive Biology and Population Medicine	Harvard Medical School
08/22-	Professor	Obstetrics and Gynecology	University of South Florida Morsani College of Medicine

Appointments at Hospitals/Affiliated Institutions

Past

07/06-06/09	Clinical Instructor	Obstetrics & Gynecology	San Francisco General Hospital
07/06-06/09	Clinical Instructor	Obstetrics & Gynecology	Moffitt-Long Hospital

10/06-06/09	Staff Physician	Obstetrics & Gynecology	St. Luke's Hospital, San Francisco
09/09-07/22	Assistant in Obstetrics and Gynecology	Obstetrics & Gynecology	Massachusetts General Hospital
Current			
08/22-	Staff Physician	Obstetrics & Gynecology	Tampa General Hospital

Major Administrative Leadership Positions

Local

2005-2006	Administrative Chief Resident, Integrated Residency Program in Obstetrics and Gynecology	Brigham & Women's Hospital/ Massachusetts General Hospital
2012-2022	Director of Obstetric Services, Multidisciplinary Fetal Care Group	Massachusetts General Hospital
2013-2015, 2021-2022	Associate Program Director, Maternal-Fetal Medicine Fellowship	Massachusetts General Hospital
2015-2021	Program Director, Maternal-Fetal Medicine Fellowship	Massachusetts General Hospital
2016-2022	Director of Obstetric Research	Massachusetts General Hospital
2018-2022	Division Chief, Maternal-Fetal Medicine	Massachusetts General Hospital
2018-2022	Director, Deborah Kelly Center for Clinical Research in Obstetrics and Gynecology	Massachusetts General Hospital
2022-	Vice Chair of Clinical Operations	University of South Florida Morsani College of Medicine Department of Obstetrics and Gynecology

Committee Service

Local

2004-2006	Education Committee	Brigham & Women's Hospital
2004-2006	Partners Education Committee	Brigham & Women's Hospital/ Massachusetts General Hospital
2005-2006	Residency Governance Committee, Integrated Residency Program in Obstetrics and Gynecology	Brigham & Women's Hospital/ Massachusetts General Hospital
2008-2009	Ultrasound Protocol Committee, Prenatal Diagnosis Center	University of California, San Francisco
2010-2017	Institutional Review Board	Massachusetts General Hospital
2012-2022	Program Evaluation Committee, Integrated Residency Program in Obstetrics and Gynecology	Brigham & Women's Hospital/ Massachusetts General Hospital
2014-2022	Obstetrics Clinical Competency Committee	Brigham & Women's Hospital/ Massachusetts General Hospital
2023-	Core Faculty	USF OBGYN Residency
2023-	Program Evaluation Committee	USF OBGYN Residency

Regional

2011-2017	Program Services Committee	March of Dimes- Massachusetts Chapter
	2013-2016	Chair
2011-2015	Grant Review Committee	March of Dimes- Massachusetts Chapter
2012-2013	Clinical Advisory Board	Isis Parenting

National

2014	Writing Group on Periviable Birth	Society for Maternal-Fetal Medicine and American College of Obstetricians and Gynecologists Obstetric Care Consensus Group
2016	Accreditation Council for Graduate Medical Education/American Board of Obstetrics and Gynecology Working Group for the Maternal-Fetal Medicine Milestones Project	American Board of Obstetrics and Gynecology
2016	Beyond Ultrasound First: Forum on Quality and Standardization of Ultrasound in OB/GYN Imaging	American College of Obstetrics and Gynecology
2017	SMFM/AIUM Task force on ultrasound curriculum development and competency assessment for Maternal-Fetal Medicine Fellowship	American College of Obstetrics and Gynecology
2018	AIUM Committee to revise the practice parameter for the performance of fetal echocardiography	American College of Obstetrics and Gynecology
2018	Invited participant for Standard setting for Maternal-Fetal Medicine Qualifying (written) examination	American Board of Obstetrics and Gynecology
2018-2021	Education Committee	Society for Maternal-Fetal Medicine
2021-	Oral Board Examiner	American Board of Obstetrics and Gynecology
2021	DIF Fairness Panel	American Board of Obstetrics and Gynecology
2022-	Certifying Examination Development Committee	American Board of Obstetrics and Gynecology

Professional Societies

2002-2006	American Medical Association	Member
2002-2022	Massachusetts Medical Society	Member
2002-	American College of Obstetricians & Gynecologists	Member
	2015-2023	ACOG Committee on Obstetric Practice Bulletins- now Clinical Practice Guidelines- Obstetrics (Chair effective May 2020)
	2020-2023	ACOG Committee on Clinical Consensus- Obstetrics (Liaison from ACOG OB-CPG)
2005-	Society for Maternal-Fetal Medicine	Member

	2013	Abstract Judge, Annual Meeting
	2016	Oral session judge, Annual Meeting
	2019	Oral session judge, Annual Meeting
	2018-2020	Education Committee
	2020	Oral session judge, Annual Meeting
	2020-2023	Publications Committee (Liaison from ACOG OB-CPG)
2006-2020	Society for Medical Decision Making	Member
	2016	Abstract reviewer, Annual meeting
2012-2018	Boston Obstetric Society	Member
2020-	American Gynecological and Obstetrical Society	Member

Grant Review Activities

2011	Massachusetts March of Dimes	Program services grant reviewer
2014	Deborah Kelly Center	Massachusetts General Hospital Grant reviewer
2015	Scholars Program	Massachusetts General Hospital Grant reviewer
2018	Patient Centered Outcomes Research Institute (PCORI) Pragmatic Clinical Trials Review Panel	Scientist reviewer
2018	Patient Centered Outcomes Research Institute (PCORI) Medication Assisted Treatment Review Panel	Scientist reviewer
2020, 2022	NIH Study Section: Clinical Management of Patients in Community Based Settings	Ad Hoc Reviewer
2020	NIH Study Section: Infectious Diseases, Reproductive Health, Asthma, and Pulmonary Conditions Study Section	Ad Hoc Reviewer
2021	Patient Centered Outcomes Research Institute (PCORI) Improving Healthcare Systems Review Panel	Scientist reviewer
2022	NIH RFA-NR-22-002: Advancing Integrated Models (AIM) of Care to Improve Maternal Health Outcomes among Women Who Experience Persistent Disparities	Reviewer
2022	Patient Centered Outcomes Research Institute (PCORI) Maternal Outcomes Review Panel	Scientist reviewer
2023	NIH Panel PAR-22-233 Time Sensitive Opportunities for Health Research	Reviewer
2023	NIH panel focused on Advancing Integrated Models (AIM) of Care to Improve Maternal Health Outcomes among Women Who Experience Persistent Disparities	Invited Reviewer (Scheduled for July 2023)

2023 PCORI Partnering Research and Community Organizations for Novel Health Equity Research: Addressing Health Systems Factors and Social Determinants of Maternal Health Panel Invited Reviewer (Scheduled for July 2023)

Editorial Activities

Ad hoc Reviewer

Obstetrics and Gynecology
 New England Journal of Medicine
 American Journal of Obstetrics and Gynecology
 British Journal of Obstetrics and Gynecology
 Menopause
 Health Affairs
 Journal of Perinatology
 Journal of Maternal, Fetal, Neonatal Medicine
 American Journal of Perinatology
 Journal of Ultrasound in Medicine
 BMC Pediatrics
 BMC Health Services Research
 BMC Pregnancy and Childbirth
 Journal of Women’s Health

Honors and Prizes

1995-1997	Psi Chi	The International Honor Society in Psychology
1997	Phi Beta Kappa	
2002	Best poster presentation	New England Perinatal Society
2003	Outstanding Teacher of Obstetrics & Gynecology	Harvard Medical School
2004	Best PGY2 Teaching Resident of the Year	Brigham and Women’s Hospital/Massachusetts General Hospital (BWH/MGH) Integrated Residency Program In Obstetrics and Gynecology
2006	Humanism Award	Brigham and Women’s Hospital/Massachusetts General Hospital (BWH/MGH) Integrated Residency Program In Obstetrics and Gynecology
2006	Partners in Excellence Award	Brigham & Women’s Hospital
2007	Best Clinical Fellow Teaching Award	University of California, San Francisco Residency Program
2007	Frank Lynch Memorial Essay	Pacific Coast Obstetrics and Gynecology Society
2008	Best Clinical Fellow Teaching Award	University of California, San Francisco Medical School
2008	Ted Adams Scholarship Award	Pacific Coast Obstetrics and Gynecology Society
2009	Best Clinical Fellow Teaching Award	University of California, San Francisco Residency Program
2012	Outstanding Teacher of Obstetrics	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2013	Leadership Academy	Society for Maternal-Fetal Medicine

2013	Outstanding Resident Mentor	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2013	Outstanding Teacher of Obstetrics	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2014	Nominee, Charles McCabe Faculty Prize for Excellence in Teaching	Harvard Medical School
2015	Council on Resident Education in Obstetrics and Gynecology National Faculty Award	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2016	Outstanding Resident Mentor	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2018	Excellence in Mentoring Award	Nominee Harvard Medical School
2018	Minehan-Schiff Endowed Scholar	Massachusetts General Hospital
2019	Outstanding Resident Mentor	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2020	Outstanding Teacher of Obstetrics	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology
2021	McGovern Award for Clinical Excellence Nominee	Massachusetts General Hospital
2022	Mentor Award	ACOG District I
2022	Outstanding Teacher of Obstetrics	BWH/MGH Integrated Residency Program in Obstetrics and Gynecology

Report of Funded and Unfunded Projects

Funding Information

Past

- 03/01/07-03/31/08 Evidence Review of Elective Induction in Labor
290-02-0017 AHRQ / Stanford-UCSF Evidence-based Practice Center
Co-Investigator
This project from AHRQ was contracted out to the Stanford-UCSF Evidence-based Practice Center. The project was designed to answer clinical outcomes questions with regards to elective induction of labor.

- 03/01/07-02/28/08 Women’s Satisfaction and Attitudes Regarding Their Labor and Delivery Experience
UCSF Research Evaluation and Allocation Committee
Co- Investigator
This project was designed to collect qualitative data regarding women’s experiences of and preferences regarding the process and outcomes of induction of labor and to develop a questionnaire that measures women’s satisfaction with their labor and delivery process and birth experience.

- 07/01/07-6/30/09 Graduate Research Training in Perinatal Biology
NICHD/5T32HD007162-27
Mentored Scholar (\$117,000)
This was an interdisciplinary post-doctoral program at the University of California San Francisco designed to provide comprehensive training in perinatal science as

well as mentored career development for pediatricians and obstetricians with MD or MD, PhD degrees that are committed to academic careers with a strong research component.

- 05/04/12-05/03/13 Deborah Kelly Center for Outcomes Research
Principal Investigator (\$20,000)
This was a prospective examination assessing the patient experience of care and the impact of mode of delivery.
- 10/01/11-9/30/13 NIH Loan Repayment Program
Principal Investigator (\$41,854)
This was an effectiveness study of a decision aid previously shown to be efficacious in improving prenatal testing decision quality in a diverse population of women. The goal of the study was to collect data regarding the use of the decision aid in real world conditions, and the effect of the availability of the decision aid on knowledge, decision quality, and testing behavior.
- 01/01/16-12/31/16 Dorothy Rackemann Fellowship
Vincent Memorial Hospital/MGH Department of Obstetrics and Gynecology
Principal Investigator (\$30,000)
Harvard Medical School Fellowship to support junior faculty.
This study will assess the impact of patient and provider factors on decision making for primary cesarean delivery.
- 10/17/16-9/30/17 Use of 17-OHP to prevent preterm birth in the HPHC Patient population: Adherence, Outcomes, and Costs
Harvard Pilgrim Health Care Pilot Funding (PI Galbraith)
This study will assess the adherence to evidence based prescribing of 17-OHP for the prevention of recurrent preterm birth in the Harvard Pilgrim Health Care population, with the goal of defining barriers to optimal use. The data from this pilot study will be used to inform an intervention study to promote adherence across a range of patient populations.
- 12/1/2017-11/30/2019 Intranasal Oxytocin as a Means to Enhance Mother-infant Bonding in the Early Postpartum Period
NIH/NICHD R21 HD090396 (PI Dekel)
Role: Co-Investigator (\$252,750)
This phase II clinical trial will test a novel preventive approach in postpartum mothers within the hours and days following childbirth, i.e., during the important time for bonding. We will examine the role of exogenous oxytocin in decreasing postpartum psychopathology and promoting maternal bonding in mothers at risk for postpartum depression and maternal bonding impairment.
- 07/01/14-6/30/20 PROCEED: Effect of a patient-centered decision app on Trial of Labor After Cesarean Section (TOLAC): An RCT
NIH/NICHD R01 HD078748 (PI Kuppermann)
Site Principal Investigator (\$570,215)

This study will address the gap in knowledge regarding the role of patient preferences in decision making regarding delivery approach after prior cesarean and combine the newly gained information with a validated VBAC risk calculator and state-of-the art mobile health technology to create an innovative decision tool for women who are facing the TOLAC decision. Our study also will generate evidence on the effectiveness of this app in increasing TOLAC rates and improving decision quality.

04/01/2020-
03/31/2022

Project Title: Predictive Modeling of Peripartum Depression
1R03HD101724-01 (PI Dekel)
Role: Co-investigator (\$100,000)

This study proposes to use state-of-the-art machine learning methods to improve the accuracy of the prediction of peripartum depression. We will prospectively explore the combined effect of various disease-related factors and make use of the massive health information in patient medical record to optimize prediction.

04/01/2020-
03/31/2022

Project Title: Neural Underpinnings of Postpartum Adaptation Following Traumatic Delivery and Implications for Infant Development
1R21HD100817-01A1 (PI: Dekel)
Role: Co-investigator (\$150,000)

This functional neuroimaging study is aimed to reveal the neural basis of maternal bonding impairment in childbirth-related PTSD. We will examine possible neural alterations in mothers PTSD following traumatic delivery and the association of neural alterations with outcomes of bonding and infant development

Current

06/01/2019 –
05/31/2023

Project title: Understanding preferences regarding the offer of elective induction of labor to inform development of a decision support tool
NIH/NICHD R21HD098496 (PI Kaimal)
Role: Principal Investigator (\$419,301)

The goals of this study are to conduct formative research among pregnant women and prenatal care providers regarding how they would view the offer of elective induction of labor at 39 weeks, to use this information in the creation of a prototype decision tool regarding elective induction, and to conduct a pilot study of feasibility and acceptability of the tool.

07/01/2021-
6/30/2023

Project Title: Leveraging Electronic Health Record Data and Machine-Learning for Neonatal Risk Stratification on Labor and Delivery
Research Grant (Clapp)
Risk Management Foundation of the Harvard Affiliated Institutions
Role: Co-Investigator (\$199,807)

The objective of this project is to leverage the power of machine-learning and EHR data within the Mass General Brigham health system to reduce the risk of harm related to fetal distress.

04/01/2022-
3/31/2024

Project Title: Epidemiology of prehospital obstetric conditions and out-of-hospital deliveries in the US
R21 (PI: Cash)
Role: Co-Investigator (\$462,001)

This is a national study of prehospital OB conditions and out of hospital deliveries to gain a better understanding of the epidemiology of these encounters, frequency of patient safety events during care, and factors associated with these events.

07/01/2022-
6/30/2026

Project Title: Reducing Maternal Health Disparities: Effects of recent health workforce policies
R01 (PI: Yu)
Role: Co-Investigator (\$115,368)
The goal of this work is to assess the effect of the recent National Health Service Corps (NHSC) expansion on women's health and health care disparities. The overarching goal is to inform policymaking on the geographical distribution of clinicians through empirical analysis of the ongoing federal program whose charge is to reduce health care workforce shortages in underserved areas.

Pending

04/01/2023-
3/31/2028

Project Title: The Impact of Including Pregnancy as a Qualifying Event for Marketplace Special Enrollment on Child and Maternal Health
R01 (PI: Garabedian)
Role: Co-Investigator
This study will describe the Marketplace enrollment by pregnancy people and assess the impact of changing policies regarding pregnancy as a qualifying life event on enrollment and prenatal care as well as maternal and child health outcomes. This application was scored at the 10%ile.

Current Unfunded Projects

- 2009- Obstetric outcomes in a diverse population of women/ Principal Investigator
This is an obstetric data repository for perinatal epidemiology research.
- 2016- Hospital Level Variation in Postpartum Readmission/Co-Investigator
Retrospective cohort study using discharge data from the state inpatient databases to assess the contributions of patient and hospital level factors to obstetric readmissions.
- 2017- Impact of health insurance coverage on pregnancy outcomes before and after the Affordable Care Act/Mentor
Retrospective cohort study using the PRAMs database to assess the impact of insurance coverage on pregnancy outcomes.
- 2018- Unexpected Term NICU Admission Rate: A Marker of Obstetric Care Quality?/Mentor
Retrospective study to investigate this balancing measure in obstetrics
- 2018- Maternal versus Neonatal Levels of Care/Mentor
Retrospective study to evaluate the differences in classification of hospitals based on maternal and neonatal level
- 2018- Obesity rates and maternal mortality/Co-investigator
Ecological study to assess the impact of maternal obesity on maternal mortality trends
- 2018- Utilization of Electronic Health Record information for defining risk of maternal morbidity and mortality/Mentor
- 2019- Utilization of electronic health record data elements to better risk stratify obstetric patients/Mentor
- 2020- Impact of magnesium on labor course and complications/Mentor
- 2020- COVID-19 and pregnancy/Co-investigator

- 2022- OASIS risk factors and protective factor/Mentor
- 2022- Periviability pregnancy outcomes/Mentor
- 2022- Use of quasi-experimental methods to explore changes in obstetric policy regarding late preterm steroids and progesterone for prevention of preterm birth

Report of Local Teaching and Training

Teaching of Students in Courses

1999-2000	Physiology 1 st year medical students	Harvard Medical School Three 2-hour tutorial sessions
2001-2002	Physical Examination & Differential Diagnosis, Patient-Doctor II 2 nd year medical students	Massachusetts General Hospital, Harvard Medical School Weekly ½ day small group teaching
2007-2009	Lifecycle 1 st year medical students	University of California, San Francisco One hour lecture yearly
2008	Epidemiologic Methods Postdoctoral Fellows, Masters and Certificate Students in Advanced Training for Clinical Research	University of California, San Francisco Weekly 1.5 hour session with lecture, discussion and homework review
2009-2022	Essentials of the Medical/Surgical Complications of Pregnancy 3 rd year Harvard Medical students	Massachusetts General Hospital One hour lecture- several times per year

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2009, 2011	Fetal CNS and Spine Radiology Residents	Massachusetts General Hospital One hour lecture
2010	Pathogenesis and Prediction of Pre-term Delivery Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2010	Developmental Origins of Health & Disease Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2011	Nonimmune Hydrops Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2011	Pregnancy & Rheumatic Diseases Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2011	Critical Care in Pregnancy Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2012	Antepartum Fetal Assessment by Ultrasonography: The Fetal Biophysical Profile Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2012	The Role of Doppler Ultrasound in OB Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2012	Hemolytic Disease of the Newborn Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2012	Cardiac Rhythm Maternal-Fetal Medicine Fellows	Massachusetts General Hospital One hour lecture
2012	TB Guidelines/Treatment/Screening/T-Spot	Massachusetts General Hospital

2013	Maternal-Fetal Medicine Fellows U/S of Fetal Neural Axis	One hour lecture Massachusetts General Hospital
2013	Maternal-Fetal Medicine Fellows Basic Statistics Every MFM Fellow Should Know	One hour lecture Massachusetts General Hospital
2013	Maternal-Fetal Medicine Fellows Critically Ill Patient Review Blood Gases	One hour lecture Massachusetts General Hospital
2013	Maternal-Fetal Medicine Fellows Ultrasound Evaluation During First Trimester of Pregnancy	One hour lecture Massachusetts General Hospital
2013	Maternal-Fetal Medicine Fellows Placental Respiratory Gas Exchange and Fetal Oxygenation	One hour lecture Massachusetts General Hospital
2013	Maternal-Fetal Medicine Fellows Research Database Development	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Intensive Care Considerations for the Critically Ill Parturient	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Tachyarrhythmias & Bradyarrhythmias	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Assessment and Induction of Fetal Pulmonary Maturity	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Fetal Lung Development and Sufactant	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Ultrasound Intro	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Fetal Heart: Normal Circulation, Normal Structure, Ultrasound Techniques	One hour lecture Massachusetts General Hospital
2014	Maternal-Fetal Medicine Fellows Fetal Review of Dopplers: Techniques and Uses	One hour lecture Massachusetts General Hospital
2015	Maternal-Fetal Medicine Fellows Principles of Clinical Cytogenetics	One hour lecture Massachusetts General Hospital
2015	Maternal-Fetal Medicine Fellows Cancer Treatment in Pregnancy - Board Review	One hour lecture Massachusetts General Hospital
2015	Maternal-Fetal Medicine Fellows Hemolytic disease of the fetus and newborn	One hour lecture Massachusetts General Hospital
2016	Maternal-Fetal Medicine Fellows Management/Workup of IUGR	One hour lecture Massachusetts General Hospital
2016	Maternal-Fetal Medicine Fellows Amnio Simulation	One hour lecture Massachusetts General Hospital
2016	Maternal-Fetal Medicine Fellows Stillbirth	One hour lecture Massachusetts General Hospital
2016	Maternal-Fetal Medicine Fellows Umbilical Cord Gas Evaluation	One hour lecture Massachusetts General Hospital

2016	Maternal-Fetal Medicine Fellows Cervical Pessaries	One hour lecture Massachusetts General Hospital
2016	Maternal-Fetal Medicine Fellows Nonimmune Hydrops	One hour lecture Massachusetts General Hospital
2016	Maternal-Fetal Medicine Fellows Fetal Heart- Imaging of normal anatomy	One hour lecture Massachusetts General Hospital
2017	Maternal-Fetal Medicine Fellows Principles of Clinical Cytogenetics	One hour lecture Massachusetts General Hospital
2017	Maternal-Fetal Medicine Fellows Fetal transfusion	One hour lecture Massachusetts General Hospital
2017	Maternal-Fetal Medicine Fellows Fetal cardiac anomalies	One hour lecture Massachusetts General Hospital
2018	Maternal-Fetal Medicine Fellows Fetal Assessment	One hour lecture Massachusetts General Hospital
2018	Maternal-Fetal Medicine Fellows Preeclampsia in the periviable period	One hour lecture Massachusetts General Hospital
2019	Maternal-Fetal Medicine Fellows Research Methods	One hour lecture Massachusetts General Hospital
2019-2022	Maternal-Fetal Medicine Fellows Monthly Ultrasound/Anomalies Lecture	One hour lecture Massachusetts General Hospital
2021	Maternal-Fetal Medicine Fellows Fetal Growth Abnormalities	One hour lecture each month Massachusetts General Hospital
2021	MGH/ BWH OBGYN Residents Counseling for common ultrasound findings	One hour lecture each month Massachusetts General Hospital
2023	Maternal-Fetal Medicine Fellows Respiratory Diseases in Pregnancy	One hour lecture University of South Florida
	Maternal-Fetal Medicine Fellows	One hour lecture

Clinical Supervisory and Training Responsibilities

Prior appointment – University of California, San Francisco

2006-2009	San Francisco General Hospital Obstetrics Clinic Preceptor	½ day per week
2006-2009	Moffitt-Long Labor and Delivery Supervision of Medical Students and Residents on the Inpatient Obstetrics service	3 months in the first year, weekdays 3-4 calls per month

Prior Appointment - Massachusetts General Hospital

2009-2022	Ultrasound/Prenatal Diagnostic Unit Supervision of MFM Fellows	½ day per week
2009-2022	Antepartum Service Supervision of MFM Fellows	7 weeks per year
2009-2022	Labor and Delivery Supervision of Medical Students and Residents	2 days per month plus overnight call 2 out of 3 months

Current Appointment – University of South Florida, Tampa General Hospital

2022-	Ultrasound/Prenatal Diagnostic Unit	1.5 days per week
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2022-	Supervision of MFM Fellows Antepartum Service	1-5 days per month
2022-	Supervision of MFM Fellows, Residents Labor and Delivery Supervision of Medical Students and Residents	1-2 days per month plus 1 overnight call per month

Formally Supervised Trainees

2009	Vanitha Janakiraman, MD, MPH/ Maternal-Fetal Medicine Faculty, Kaiser Walnut Creek Supervised Dr. Janakiraman's fellowship research project, Manuscript published.
2010	Katherine O'Malley, MD/ Maternal-Fetal Medicine Faculty, Stanford University Supervised Dr. O'Malley's residency research project, presented at a national meeting.
2011	Brett Young, MD/ Maternal-Fetal Medicine Faculty, Beth Israel Deaconess Hospital. Supervised Dr. Young's fellowship research project. Manuscript published.
2011-2014	Sorapop Kiatpongsan, MD/Faculty, Mentor, Dissertation Committee Member. Multiple abstracts presented. Winner of the Lee Lusted Prize from the Society for Medical Decision Making.
2012	Anthony Imudia, MD/ Faculty, Reproductive Endocrinology, University of South Florida. Co-mentored Dr. Imudia's fellowship research project. Manuscript Published.
2013	Teresa Sparks, MD/Maternal-Fetal Medicine and Genetics Fellow, University of California, San Francisco. Supervised Dr. Spark's residency research project, presented at a national meeting.
2013-2015	Michael Honigberg, MD, MPP/Internal Medicine Resident, Brigham and Women's Hospital Supervised medical student research project, presented at a national meeting, manuscript submitted.
2013-2015	Rachel Pilliod, MD/Maternal-Fetal Medicine Fellow (2016-2019), Faculty, 2019-, Oregon Health and Sciences University. Co-mentor for Dr. Pilliod's residency research project. Manuscript published.
2013-2016	Mariam Naqvi, MD/Maternal-Fetal Medicine Faculty (2016-2019), Mt. Sinai Hospital, Cedars-Sinai, 2019-. Supervised Dr. Naqvi's fellowship research project. Manuscript published.
2014-2015	Stephanie Guseh, MD/Maternal-Fetal Medicine Fellow, Brigham and Women's Hospital. Supervised Dr. Guseh's residency research project, presented at a national meeting. .
2014-	Lori Berkowitz, MD/OB/GYN Faculty, Massachusetts General Hospital Faculty mentor for Association of Professors of Gynecology and Obstetrics/Council on Resident Education in Gynecology and Obstetrics Research Program. Project presented at a national meeting. Manuscript published.
2014-2016	Cassie Bigelow, MD/Maternal-Fetal Medicine Fellow (7/16), Mt Sinai Hospital. Supervised Dr. Bigelow's residency research project, presented at a national meeting. Manuscript published.
2015-2017	Kartik Venkatesh, MD, PhD/OB/Gyn Resident, now Maternal-Fetal Medicine Faculty. Supervised Dr. Venkatesh's residency research project. Manuscript published.
2016-2019	Mark Clapp, MD, MPH, Maternal-Fetal Medicine Fellow, now faculty, Massachusetts General Hospital Mentor for several projects during fellowship. Multiple manuscripts accepted. Seven grant applications submitted- five funded, including a career development award

- 2018- Taylor Freret, MD, OB/Gyn Resident, now MFM Fellow. Mentor for multiple research projects during residency and fellowship.
- 2022- Peeraya Sawangkum, MD, MFM Fellow. Mentor for periviability research project; working with COPH faculty.

Mentees

Current

- 2013- Mariam Naqvi, MD, Maternal-Fetal Medicine Staff, Cedars-Sinai
- 2013- Sharon Dekel, PhD, Psychiatry Faculty, Massachusetts General Hospital
- 2014- Erik Clinton, MD, OB/Gyn Faculty, Massachusetts General Hospital
- 2014- Lori Berkowitz, MD, OB/GYN Faculty, Massachusetts General Hospital
- 2015- Kartik Venkatesh, MD, PhD, MFM Faculty, The Ohio State University
- 2015- Amy Stagg, MD, OB/Gyn Faculty, Massachusetts General Hospital
- 2018- Lauren Hanley, MD, OB/GYN Faculty, Family Health Centers of San Diego
- 2021- Raj Reddy, MD, OB/GYN Resident
- 2022- Peeraya Sawangkum, MFM Fellow

Formal Teaching of Peers

No presentations below were sponsored by outside entities

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| 2008 | Cutting the Cord: Management of the Third Stage
Antepartum and Intrapartum Management CME Course
University of California, San Francisco | Lecture
San Francisco |
| 2008 | The Use of Fetal Fibronectin and Cervical Length
Obstetrics and Gynecology Update CME Course,
University of California, San Francisco | Lecture
San Francisco |
| 2009 | Induction of Labor: What do women want?
Antepartum and Intrapartum Management CME Course
University of California, San Francisco | Lecture
San Francisco |
| 2011-2017 | Diagnosis and Management of the Short Cervix
Topics in Contemporary Obstetrics and Gynecology,
Massachusetts General Hospital/Harvard Medical
School | Lecture
Boston |
| 2015, 2016 | Would you offer this woman a TOLAC?
Topics in Contemporary Obstetrics and Gynecology,
Massachusetts General Hospital/Harvard Medical
School | Lecture
Boston |
| 2017, 2019,
2021 | Preeclampsia: What Obstetricians and Cardiologists
need to know
Massachusetts General Hospital/Partners Healthcare | Lecture
Boston |
| 2019 | First trimester ultrasound and Cell free DNA: More is
Better
Society for Maternal Fetal Medicine | Lecture
Las Vegas, NV |
| 2021 | Access to Reproductive Services:
Implications for Maternal Morbidity and Mortality
Antepartum and Intrapartum Management CME Course
University of California, San Francisco | Lecture
San Francisco, CA |
| 2021 | Management of the malpositioned fetus in labor
Antepartum and Intrapartum Management CME Course | Lecture
San Francisco, CA |

2021 University of California, San Francisco
 Fetal Heart Rate Monitoring Panel
 Antepartum and Intrapartum Management CME Course San Francisco, CA
 University of California, San Francisco

Local Invited Presentations

No presentations below were sponsored by outside entities

2003 Cervical Lymphoma / Resident Teaching Conference
 Department of Obstetrics and Gynecology, Massachusetts General Hospital

2004 Endometriosis Associated Ovarian Cancer / Resident Grand Rounds
 Department of Obstetrics and Gynecology, Brigham and Women's Hospital

2005 Medical Treatment of Ectopic Pregnancy / Resident Teaching Conference
 Department of Obstetrics and Gynecology, Massachusetts General Hospital

2005 Progesterone for Prevention of Preterm Birth / Resident Grand Rounds
 Department of Obstetrics and Gynecology, Brigham and Women's Hospital

2006 Management of Tubo-Ovarian Abscess / Gynecology conference
 Department of Obstetrics and Gynecology, Brigham & Women's Hospital

2010 Improving patient-centeredness and patient-provider communication in Obstetrics and
 Gynecology / Grand Rounds
 Department of Obstetrics and Gynecology, Massachusetts General Hospital

2011 Fetal Surgery for Myelomeningocele: Implications of the MOMs trial for prenatal
 counseling/Grand Rounds
 Pediatric Surgery and Pediatric Anesthesia Conference, Massachusetts General Hospital

2015 Understanding risk, preferences, and obstetric decision making: Optimizing approach to
 delivery after cesarean / Grand Rounds
 Department of Obstetrics and Gynecology, Massachusetts General Hospital

2016 Primary cesarean delivery: Much to do, or much ado about nothing?/Grand Rounds
 Department of Obstetrics and Gynecology, Massachusetts General Hospital

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

Regional

No presentations below were sponsored by outside entities

2010 Progesterone and Antenatal Steroids: Evidence Based Interventions to Reduce Preterm Birth
 and its Complications
 Massachusetts March of Dimes Healthy Baby Symposium, Waltham, MA

2011 Diagnosis and Management of the short cervix / Grand Rounds
 Department of Obstetrics and Gynecology, North Shore Medical Center, Salem, MA

2012 It Takes a Village: Bridging the Gaps in Perinatal Care / Panel Member
 Isis Parenting Panel, Needham, MA

2013 Diagnosis and Management of Intrauterine Growth Restriction / Grand Rounds
 Department of Obstetrics and Gynecology, North Shore Medical Center, Salem, MA

2016 Update on Zika Virus Infection/Grand rounds
 Department of Obstetrics and Gynecology, North Shore Medical Center, Salem, MA

2016 Trials and Tribulations of Trial of Labor after Cesarean/Grand Rounds
 Department of Obstetrics and Gynecology, North Shore Medical Center, Salem, MA

- 2017 Optimizing decision making for cesarean delivery/Grand Rounds
Department of Obstetrics and Gynecology, Tufts Medical Center, Boston, MA
- 2018 Management of hypertension in pregnancy/Grand Rounds
Department of Obstetrics and Gynecology, North Shore Medical Center, Salem, MA
- 2018 Understanding risk, preferences, and decision making: Optimizing the approach to delivery after cesarean. Boston Children's Hospital, Boston, MA
Pediatrics Health Services Research Seminar
- 2018 Optimizing Evidence-Based, Patient-Centered Care in Obstetrics and Gynecology
China Program for Health Innovation and Transformation, Harvard Medical School, Boston, MA
- 2019 Understanding Risk: Optimizing the approach to delivery after cesarean.
Beth Israel/Deaconess Medical Center Newborn Epidemiology and Clinical Research Series, Boston, MA
- 2020 Understanding risk: Optimizing approach to delivery after cesarean
Tufts Medical Center Department of Obstetrics and Gynecology Grand Rounds, Boston, MA
- 2021 Advancing equitable, risk-appropriate, patient-centered maternity care: Trial of labor after cesarean and Elective induction of labor
Brigham and Women's Hospital Department of Obstetrics and Gynecology Grand Rounds, Boston, MA
- 2021 Advancing equitable, risk-appropriate, patient-centered care
Beth Israel/Deaconess Medical Center Department of Obstetrics and Gynecology Grand Rounds, Boston, MA
- 2021 Advancing equitable, risk-appropriate, patient-centered care
North Shore Medical Center Department of Obstetrics and Gynecology Grand Rounds, Salem, MA
- 2021 Hypertensive disorders of pregnancy: Peripartum management
Lawrence General Hospital Grand Rounds, Lawrence, MA

National

No presentations below were sponsored by outside entities

- 2011 Measuring Obstetric Quality: Which Measure? Which Data? From Where?/ Presentation
Society for Maternal-Fetal Medicine Annual Meeting, Informatics Interest Group.
- 2013 Understanding Risk: Implications of Health Literacy and Numeracy for Vaccination / Presentation
National Vaccine Advisory Council Meeting, Washington, DC
- 2015 Optimizing Evidence-Based, Patient-Centered Care in Obstetrics and Gynecology: Understanding Risks, Preferences and Decision Making / Presentation
The George Washington University, Washington, DC
- 2018, 2019, 2021 Optimizing shared decision making in MFM and Neonatology: Counseling at the limits of Viability/Presentation.
American Association of Pediatrics Perinatal Medicine Conference, Scottsdale, AZ
- 2019 First Trimester Ultrasound in the Age of Cell Free DNA: Yes or No?/Presentation
Society for Maternal-Fetal Medicine
- 2019 What are the factors to access care and services and the continuity of care issues for high risk women?/Presentation.
Society for Maternal-Fetal Medicine Workshop on reproductive services for women at high risk for maternal mortality. Las Vegas, NV.

- 2019 Counseling women at high risk for maternal mortality/Presentation.
Society for Maternal-Fetal Medicine Workshop on reproductive services for women at high risk for maternal mortality. Las Vegas, NV.
- 2019 Optimizing approach to delivery after cesarean/Presentation
Harbor-UCLA Medical Center Grand Rounds
- 2021 Advancing equitable, risk-appropriate, patient-centered maternity care
University of South Florida Department of OB/GYN Grand Rounds
- 2022 Universal Anticoagulation after Cesarean- Must do or a bit too Much?/Presentation
Society for Maternal-Fetal Medicine
- 2022 Advancing equitable, risk-appropriate, patient-centered maternity care
University of Colorado Denver Department of OB/GYN Grand Rounds

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 2006 - California Medical License
- 2009 - Massachusetts Medical License
- 2007 Diplomate, American Board of Obstetrics and Gynecology - Obstetrics and Gynecology
- 2011 Diplomate, American Board of Obstetrics and Gynecology - Maternal-Fetal Medicine
- 2021- New Hampshire Medical License
- 2022- Florida Medical License

Clinical Innovations

- Establishment of Multidisciplinary Fetal Care Program Given my interests in optimizing patient-provider communication in obstetrics, I co-founded the MGH Multidisciplinary Fetal Care Program to optimize the care and counseling of women diagnosed with fetal anomalies during pregnancy. These complicated diagnoses often require multiple consultations and developing a comprehensive understanding the implications of a prenatal diagnosis of these conditions can be challenging for patients and providers alike. We have organized regular conferences to improve multidisciplinary communication and we now have two full time fetal care coordinators as our volume has grown, averaging over 200 referrals per year when I left MGH.

- Development of the Maternal-Fetal Medicine referral practice from the North Shore From the time that I joined the faculty at MGH, in addition to my time at the main MGH campus, I spent several days per week in the MGH Danvers office. Through repeated contact with the providers and patients in the North Shore community through patient care as well as grand rounds presentations, I have helped to build the referral practice and relationship.

- Improving shared decision making in Obstetrics Optimizing the integration of informed patient preferences into obstetric decision making has been an important part of my clinical work, my committee involvement, and my research endeavors. Through initiatives within the department, collaborations with other departments, committee work, and published and ongoing research, I have worked to facilitate the integration of patient preference into decision making regarding prenatal diagnosis, cesarean delivery, opioid prescribing, and counseling in the periviable period. The goal of my current NICHD funded research is the

Development of satellite Maternal-Fetal Medicine Practice at Wentworth Douglas Hospital	development of decision tool to optimize the equitable offer of elective induction of labor. In 2021, MGH Maternal-Fetal Medicine contracted to provide MFM services at an affiliated site, Wentworth-Douglas Hospital. As the MFM Division Chief, I led efforts to establish the practice, working with the referring providers to support their clinical protocols as well as providing ultrasound and consultation. Services are currently provided 1 day per week and MGH MFM supports QA and case review activities.
Development of TGH Accreta Protocol	Care for patients with need for planned and unplanned cesarean hysterectomy was identified as an area of need when I joined USF and TGH. I met with stakeholders from across the institution and developed a protocol that we are now using to schedule and staff these cases. Overall feedback has been positive, and we plan to continue to streamline the process.
Collaboration with Anesthesia to optimize L+D Support	Given the uniquely high acuity and volume on the TGH labor floor, appropriate anesthesia staffing is essential for performance of high quality, patient-centered care. I have worked with the TeamHealth Anesthesia leadership as well as the TGH Service Line Leadership to improve anesthesia support. We have achieved some positive changes and are continuing to partner to optimize care.

Report of Scholarship

Peer reviewed publications in print or other media

Research Investigations

1. **Kaimal AJ**, Cheng YW, Bryant AS, Norton ME, Caughey AB. Google Obstetrics: Who is educating our patients? *Am J Obstet Gynecol.* 2008 Jun; 198(6):682.e1-5. PMID: 18538152.
2. Tran SH, Cheng YW, **Kaimal AJ**, Caughey AB. Length of rupture of membranes in the setting of premature rupture of membranes at term and infectious maternal morbidity. *Am J Obstet Gynecol.* 2008 Jun; 198(6):700.e1-5. PMID: 18538159.
3. **Kaimal AJ**, Zlatnik MG, Cheng YW, Thiet MP, Connatty E, Creedy P, Caughey AB. Effect of a change in policy regarding the timing of prophylactic antibiotics on the rate of postcesarean delivery surgical-site infections. *Am J Obstet Gynecol.* 2008 Sep; 199(3):310.e1-5. PMID: 18771995.
4. Wong LF, Caughey AB, Nakagawa S, **Kaimal AJ**, Tran SH, Cheng YW. Perinatal outcomes among different Asian-American subgroups. *Am J Obstet Gynecol.* 2008 Oct; 199(4):382. e1-6 PMID: 18722570.
5. Chen MM, Coakley FV, **Kaimal A**, Laros RK. Guidelines for computed tomography and magnetic resonance imaging use during pregnancy and lactation. *Obstet Gynecol.* Aug 2008;112(2 Pt 1):333-340. PMID: 18669732.
6. Henry DE, Cheng YC, Shaffer BL, **Kaimal AJ**, Bianco K, Caughey AB. Perinatal outcomes in the setting of active phase arrest of labor. *Obstet Gynecol.* 2008 Nov;112:1109-1115. PMID: 18978113.
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 12. Janakiraman V, Ecker J, **Kaimal AJ**. Comparing the second stage in induced and spontaneous labor. *Obstet Gynecol*. 2010 Sep;116(3):606-611. PMID: 20733442.
 13. Caughey AB, **Kaimal AJ**, Odibo AO. Cost-effectiveness of Down Syndrome screening paradigms. *Clin Lab Med*. 2010 Sep;30(3):629-642. PMID: 20638577.
 14. Zlatnik MG, Little SE, Kohli P, **Kaimal AJ**, Stotland NE, Caughey AB. When should women with placenta previa be delivered? A decision analysis. *J Reprod Med*. 2010 Sep-Oct; 55(9-10):373-381. PMID: 21043362.
 15. **Kaimal AJ**, Little SE, Odibo AO, Stamilio DM, Grobman WA, Long EF, Owens DK, Caughey AB. Cost-effectiveness of elective induction of labor at 41 weeks in nulliparous women. *Am J Obstet Gynecol*, 2011 Feb;204(2):137.e1-9. PMID: 20965482.
 16. Esakoff TF, Sparks TN, **Kaimal AJ**, Kim LH, Feldstein VA, Goldstein RB, Cheng YW, Caughey AB. Diagnosis and morbidity of placenta accreta. *Ultrasound Obstet Gynecol*. 2011 Mar;37(3):324-327. PMID: 20812377.
 17. Cheng YW, **Kaimal AJ**, Bruckner TA, Halloran DM, Caughey AB. Perinatal morbidity associated with late preterm deliveries compared with deliveries between 37 and 40 weeks of gestation. *BJOG*. 2011 Nov;118(12):1446-1454. PMID: 21883872.
 18. Jelin AC, **Kaimal AJ**, Kuzniewicz M, Little SE, Cheng YW, Caughey AB. Preterm preeclampsia: 32 to 37 weeks gestation. *J Matern Fetal Neonat Medicine*. 2012 Nov;25(11)2198-2201. PMID: 22506641.
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 20. Cheng YW, **Kaimal AJ**, Snowden JM, Nicholson JM, Caughey AB. Induction of labor compared to expectant management in low-risk women and associated perinatal outcomes. *Am J Obstet Gynecol*. 2012 Dec;207(6):502.e1-8. PMID: 23063017.
 21. Imudia AN, Awonuga AO, **Kaimal AJ**, Wright DL, Styer AK, Toth TL. Elective cryopreservation of all embryos with subsequent cryothaw embryo transfer in patients at risk for ovarian hyperstimulation syndrome reduces the risk of adverse obstetric outcomes: a preliminary study. *Fertil Steril*. 2013 Jan;99(1):168-173. PMID: 23025881.

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25. Yee LM, **Kaimal AJ**, Nakagawa S, Houston K, Kuppermann M. Predictors of postpartum sexual activity and function in a diverse population of women. *J Midwifery Womens Health.* 2013 Nov-Dec;58(6):654-661. PMID: 24325662
26. Young BC, Nadel A, **Kaimal A**. Does previa location matter? Surgical morbidity associated with location of a placenta previa. *J Perinatol.* 2014 Apr;34(4):264-7. PMID: 24480901.
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35. Venkatesh KK, Riley LE, Castro V, Perlis R, **Kaimal AJ**. Association of antenatal depressive symptoms and antidepressant treatment with preterm birth. *Obstet Gynecol.* 2016 May;127(5):926-33. PubMed PMID: 27054941.
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 40. Prabhu M, McQuaid-Hanson E, Hopp S, Burns SM, Leffert LR, Landau R, Lauffenburger JC, Choudhry NK, **Kaimal A**, Bateman BT. A Shared Decision-Making Intervention to Guide Opioid Prescribing After Cesarean Delivery. *Obstet Gynecol.* 2017 Jul;130(1):42-46. PMID: 28594762.
 41. Easter SR, Molina RL, Venkatesh KK, **Kaimal A**, Tuomala R, Riley LE. Clinical Risk Factors Associated With Peripartum Maternal Bacteremia. *Obstet Gynecol.* 2017 Oct;130(4):710-717. PMID: 28885399.
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 49. Clapp MA, Little SE, Zheng J, Robinson JN, **Kaimal AJ**. The relative effects of patient and hospital factors on postpartum readmissions. *J Perinatol.* 2018 May 24. [Epub ahead of print] PMID: 29795320.
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Clinical Guidelines and Reports

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Narrative Report

After graduating from Rice University and Harvard Medical School, I completed residency training in the Integrated Program in Obstetrics and Gynecology at Brigham and Women's and Massachusetts General Hospitals followed by a fellowship in Maternal-Fetal Medicine at the University of California, San Francisco. During fellowship, I completed a masters' degree in clinical research at the University of California, San Francisco. I joined the maternal-fetal medicine faculty of the Department of Obstetrics and Gynecology at Massachusetts General Hospital in 2009 and was promoted to Associate professor in 2017, with a dual appointment in the departments of Obstetrics and Gynecology and Population Medicine. I became the Division Chief for Maternal-Fetal Medicine in October 2018. In August of 2022, I was appointed as Professor and Vice Chair of OBGYN Clinical Operations of Obstetrics and Gynecology at the University of South Florida Morsani College of Medicine. I currently spend approximately 40% of my time as a clinician, teacher, and clinical leader, 20% leading and collaborating on research investigations, and 40% in other administrative activities.

My clinical practice encompasses the full range of maternal-fetal medicine including prenatal diagnosis and ultrasound, care of people on the antepartum service, high risk obstetric consultation, and attending on labor and delivery. Teaching and educational leadership have also been central to my role. I particularly enjoy teaching on labor and delivery, and I also give formal lectures to the medical students, residents, and my peers. I have received multiple teaching and mentorship awards, including awards for outstanding mentorship in 2013, 2016, 2019, and 2022, as well as awards for teaching in 2012, 2013, 2015, 2020, and 2022 and continue to strive to be an outstanding educator in hectic clinical settings, rounds, as well as in more formalized didactic settings. I have served on fellowship and residency-specific as well as system-wide program education, clinical competency, and selection committees. I was the program director for the MGH Maternal-Fetal Medicine Fellowship from 2015 to 2021 and the associate program director until I left MGH in 2022. I have been a member of the American College of Obstetricians and Gynecologists Committee on Obstetric Practice Bulletins since 2015 and took over as Chair of the committee in May 2020; as the body that oversees the writing of the clinical guidelines of our professional organization for Obstetrics, this position has allowed me the opportunity to participate in education and clinical improvement efforts nationally. I am an oral board examiner for the Maternal-Fetal Medicine Certifying exam and a member of the Certifying Examination Development Committee.

In addition to providing clinical care and teaching, I conduct clinical research to evaluate evidence-based interventions to improve the quality of care from the clinicians' and the patients' perspectives. My research includes projects aimed at optimizing counseling regarding mode of delivery, evaluating alternatives for prenatal testing, assessing the effectiveness of programs translating clinical evidence into practice, as well as qualitative and quantitative studies of pregnant people's preferences. At MGH, I created an insitutional obstetric data repository that serves as a resource for resident, fellow, and faculty research. I have served as a mentor for medical student, doctoral student, resident, and fellow research projects, in addition to providing advice and mentorship to fellow faculty members. In 2016, I became the Director of Obstetrical Research for the MGH Department of OBGYN; in this role I help to facilitate research by members of our department as well as other investigators in the institution, and in 2018 I became the Director of the Deborah Kelly Center for Clinical Research in OB/GYN at MGH, overseeing clinical research throughout the department. I received funding as the site principal investigator for an R01 funded by the NICHD (R01 HD078748) and as the principal investigator for an R21 funded by the NICHD (R21HD098496), as well as a co-investigator on

multiple other projects. I have served as mentor and advisor to clinician-scientists in Obstetrics and Gynecology as well as to faculty outside of OB/GYN who are pursuing careers in women's health research. During the COVID-19 Pandemic, I facilitated development of the infrastructure for an MGH Perinatal Biorepository that has resulted in a numerous publications and grants for the translational researchers in the department, while also working to ensure that clinical research was able to continue as possible during the pandemic.

In the administrative and research leadership roles of Division Chief and Director of Clinical Research at MGH, I put infrastructure and programs in place to facilitate research, clinical productivity and wellness. I focused on professional, clinical, and research mentorship of faculty within our department, our system, and nationally in our field. In my role as Vice Chair of OBGYN Clinical Operations at the University of South Florida Morsani College of Medicine, I am working to optimize access, clinical care, patient experience, and faculty development across both inpatient and outpatient sites.

Nationally, I have been honored by invitations to participate in writing groups, working groups and committees at professional organizations including ACOG, SMFM, ACGME, AIUM and ABOG, which have allowed me to collaborate on and lead efforts to develop clinical and educational guidance as well as being involved in the process of professional certification in Maternal-Fetal Medicine. I have been invited to speak nationally about the care and counseling of pregnant women, particularly in the areas of shared decision making, evidence-based, risk-appropriate care of pregnant people, and optimizing systems of care for pregnant people at risk of adverse outcomes. I was honored to be invited to write a book chapter on the assessment of fetal health in Creasy and Resnick's Maternal-Fetal Medicine, one of the foundational textbooks in our field. In addition to conducting my own research, I have been invited to be a scientific reviewer for multiple PCORI and NIH study sections. I also serve as an ad hoc reviewer for journals devoted to obstetric topics as well as health services research.

In my professional career, I have endeavored to provide excellent clinical care, devote my time and energy to teaching and administrative work and leadership, and to conduct clinical research to help to improve our understanding of evidence-based, patient-centered interventions for pregnant people. Through my clinical care and leadership, research activities and publications, teaching and mentoring of trainees and peers within my institution and nationally, speaking, grant review activities and service on national committees, I have sought to improve the care of pregnant people both within my current system and beyond.