**Krista Mehlhaff, DO, FACOG**
Assistant Professor, Obstetrics and Gynecology

University of Maryland, School of Medicine

**Date:**  December 12, 2023

**Contact Information**

University of Maryland Medical Center

Department of Obstetrics, Gynecology and Reproductive Sciences

Division of Maternal-Fetal Medicine

22 South Greene Street, P6H302
Baltimore, MD 21201

Fax: 301-319-5047

Kmehlhaff@som.umaryland.edu

Foreign Language:  Spanish (working knowledge), American Sign Language (working knowledge)

**Education**

1999- 2003 Bachelors of Sciences, Exercise Biology, University of California, Davis

2004- 2008 Doctor of Osteopathic Medicine, Touro University College of Osteopathic Medicine, California

**Post Graduate Education and Training**

2008-2009    Internship, Traditional,Riverside County Regional Medical Center
2009 -2013   Residency, OB/Gyn, WPAFB/Wright State University (WSU)

2016- 2019    Fellowship, MFM, Yale School of Medicine (YSOM)

**Certifications**

2015   Diplomate in Obstetrics and Gynecology, American Board of Obstetrics and Gynecology
2021   Diplomate in Maternal Fetal Medicine, American Board of Obstetrics and Gynecology

**Medical Licensure**

2010 (active):   Ohio Medical License

2016 (inactive):   Connecticut Medical License

2022 (active):   Virginia Medical License

2023 (active):   Maryland Medical License

**Military Service**

Lieutenant Colonel in the United States Air Force (USAF), Medical Corps

2009 – 2013      Air Force Institute of Technology

2013 – 2016      88th Surgical Support Squadron, Wright Patterson AFB

2016 – 2019      Air Force Institute of Technology

2019 – Present  316th Surgical Support Squadron, Joint Base Andrews AFB

2005   Commission, Second Lieutenant, USAF Medical Corps

2008   Promotion to Captain (O-3)

2014   Promotion to Major (O-4)

2020   Promotion to Lieutenant Colonel (O-5)

**Employment History:**

**Academic Appointments**

2013-2016   Instructor, Department of Obstetrics and Gynecology

Wright State University (WSU) School of Medicine

2016 –2019   Instructor, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale School of Medicine (YSOM)

2019- 2023     Assistant Professor, Department of Gynecologic Surgery & Obstetrics

Uniformed Services University of the Health Sciences

2023 - Present Assistant Professor, Department of Gynecologic Surgery & Obstetrics

University of Maryland School of Medicine

**Other Employment:**

2013-2016   Gynecologic Surgeon and Obstetrician, Wright Patterson Medical Center

2019-2023   Maternal Fetal Medicine Physician, Walter Reed National Military Medical Center (WRNMMC)

2021-2023   Division Chief, Maternal Fetal Medicine, WRNMMC

2022-2022   Maternal Fetal Medicine Physician, Miami Valley Hospital, Dayton Ohio

2023- Present Maternal Fetal Medicine Physician, University Maryland Medical Center

2023 - Present            Member, Voluntary Review of Quality of Care, ACOG

**Professional Society Memberships:**

2015- Present     Fellow, American College of Obstetricians and Gynecologists (ACOG)
2016- Present     Member, Society of Maternal Fetal Medicine
2019 – 2021       Member, International Society of Ultrasound in Obstetrics, Gynecology

2019 – 2021       Member, American Institute of Ultrasound Medicine

**Honors and Awards:**

**Attending:**

2023   Master Clinician, Walter Reed National Military Medical Center Recognition by medical staff for longevity (8 years minimum) in proven excellent outcomes, superior patient satisfaction, high clinical volume, and contributions to training, education, and research

2021   Associate Master Clinician, Walter Reed National Military Medical Center

Recognition by medical staff of new faculty for superior patient satisfaction, high clinical volume, and contributions to training, education, and research

**Fellowship:**
2018    Resident/Fellow and Nurse Collaboration Award, Yale New Haven Hospital

**Residency**:
2013     Administrative Chief Resident Award, WSU/Wright Patterson AFB
2013     Dennis D. Barber Academic Achievement Award, WSU/Wright Patterson AFB
2011     Ultrasound Award, ACOG Armed Forces District Meeting
2011   Humanism and Excellence in Teaching Award, Arnold P. Gold Foundation

**Military Service Awards:**

2023 Merritorius Service Award

2021 Humanitarian Service Award

2021 Joint Service Achievement Medal

2016 Air and Space Commendation Medal

2014 Air and Space Outstanding Unit Award

2006 National Defense Service Medal

2013 Global War on Terrorism Service Medal

2005 Armed Forces Service Medal

2010 Air Force Longevity Service

2006 Air and Space Training Ribbon

**Clinical Activities:**

2013 – 2016 Gynecologic Surgeon and Obstetrician, Wright Patterson Medical Center

30 major GYN surgeries/year, 75 minor GYN procedures/year

600 deliveries/year

250 clinical encounters per month

70% clinical, 30% teaching and administrative

2019 – 2021 Maternal Fetal Medicine Physician, WRNMMC

1400 referrals per year

500 clinical encounters per month

30 inpatient consults/month

1200 deliveries/year

15 cerclage/year, 30 amniocentesis/year

80% clinical, 20% teaching and administrative

2021 – 2023 Division Chief, Maternal Fetal Medicine, WRNMMC

Supervisor: 4 MFM physicians, 1 Genetic counselor, 3 RN’s, 3 sonographers, 2 administrative staff, 1 US Navy, health care corpsman

1400 referrals per year

500 clinical encounters per month

30 inpatient consults/month

1200 deliveries/year

15 cerclage/year, 30 amniocentesis/year

70% clinical, 30% teaching and administrative

2023 Maternal Fetal Medicine Physician, University of Maryland Medical Center

**Clinical Expertise**

Patient safety and quality improvement

Forceps assisted vaginal delivery.

Perinatal palliative care

**Administrative Service:**

**Institutional Service:**

**Wright Patterson Medical Center**

2013- 2016   Director of Simulation for Family Birthing Unit

Provides ongoing simulation drills, assuring readiness to respond to obstetric emergencies for 25 RN’s, 10 OB GYN’s and 25 resident physicians.

2013- 2016 Medical Director, Family Birthing Unit

    Provides oversight of quality of care, delivering 600 patients per year.

2013- 2016 Site Director for USHSU, Wright State and visiting medical students

   Oversee educational experience of 2 students per month

2013-2016 Interviewer, OB GYN Residency Admissions Committee

2013-2016   OB GYN Clinical Competency Committee Member, OB GYN Residency

2013-2016   Patient safety committee member

**Walter Reed National Military Medical Center**

2019- 2023 Severe Maternal Morbidity and Mortality review committee

2019- 2023   Perinatal Palliative Care Collaborative, MFM Lead

2019- 2023   Fetal to Neonatal Care Collaborative, MFM Lead

2020- 2023   Perinatal Advisory Board, Co-Chair

2020-2021   DHA, Postpartum Hemorrhage Bundle implementation team

2021-2023   Peer Support Counselor

2021-2023   Leapfrog Reporting Group, Obstetrics Lead

2020-2023   Interviewer, National Capital Consortium, OB GYN Residency

2022-2023   Interviewer, National Capital Consortium Neonatology Fellowship

2019-2023   MFM Core Clinical Director

Oversee educational experience of 4 OB GYN residents per month

2021-2021   Obstetrics team leader, Operation Allies Welcome

OB team leader for mission to coordinate complex short suspense medical care f or 277 Afghan patients and nonmedical attendants for resettlement.

**University of Maryland Medical Center**

2023 Medical Director of the Obstetric Care Unit

2023 Director, Patient Safety Risk Management and Care Enhancement for Obstetrics

**Maryland Medicine Comprehensive Insurance Program (MMCIP)**

2023 Member, Obstetrics Council

**National Service:**

2023 Member, Voluntary Review Quality Committee, ACOG

2020   Medical Reviewer, Defense Health Agency (DHA)

2019   Severe Maternal Morbidity and Mortality Committee, Co-Chair, DHA

2018   Peer Reviewer, *American Journal of Obstetrics and Gynecology*

**Local Service:**

2020   Medical Reviewer, US Air Force Medical Corp

2015   Scientific Committee Member, Armed Forces District, ACOG

**Teaching Service:**

2013-2016   Attending Physician In-patient Service, 2 residents, 2 students, 8 hours/day, 3 days/month

2013-2016   Attending Physician OB GYN Clinic, 2 residents, 2 students, 8 hours/day, 2 days/week

2019-2023   Attending Physician In-patient service, 4 residents, 2 students, 8 hours/day, 3 days per month

2019-2023   Attending Physician MFM Clinic, 1 resident, 1 student, 8 hours/day, 2 days/week

**Medical Student Teaching**

2013- 2016   Core OB GYN Lectures, WSU 3rd and 4th year medical students, 3-4 contact hours per year

2014- 2016   Reproductive Medicine, WSU 1st and 2nd year medical students, 3-4 contact hours per year

2018- 2019   Workshop, Substance Abuse in Pregnancy, 3rd and 4th year YSOM students, 3-4 contact hours per year

2019- 2023   Problem Based Learning Facilitator, 2nd and 3rd year medical students USU, 5-6 contact hours per year

**Resident and Fellow Teaching**

2013   Contraceptive options in OB/Gyn, OB GYN, 1 contact hour/year

2014   Vulvar Diseases, OB GYN, 1 contact hour/year

2013-2015   Antepartum Care, OB GYN, 1 contact hour/year

2013-2015   Normal Labor and Delivery, OB GYN, 1 contact hour/year

2017-2019   Operative Vaginal Delivery Lecture and Simulation teaching OB GYN, 4-5 contact hour/year

2020   Patient Safety and Obstetrics, OB GYN, 1 contact hour/year

2021-2022   CREOG Review- Obstetrics, OB GYN, 1 contact hour/year

2021   Preterm Birth, OB GYN, 1 contact hour/year

2021-2023   Ultrasound for OB GYN, 12-contact hour/year, created curriculum for residency

**Mentorship:**

2019-2023   Class of 2023 faculty mentor, 5 OB Gyn Residents, meetings monthly.

2020-2022   Faculty mentor for Department Morbidity and Mortality Conference, 16 OB Gyn residents, 2 contact hours monthly.

2020-2022   Faculty mentor for Journal Club, 16 OB Gyn residents, 2 contact hours every other month.

**Multidisciplinary Teaching**

2013   Grand Rounds, Depression and Pregnancy, Department of Obstetrics and Gynecology, Miami Valley Hospital, Dayton OH

2018 Lecture, Obstetric concerns in the ICU, Pulm/Critical Care Fellows, Residents and Medical Students, Yale New Haven Hospital

2019   Obstetrics for the First Responder, Emergency Medical Response Team  Yale New Haven Hospital

2020   Grand Rounds, Collaborative Obstetrics, Department of Obstetrics and Gynecology, Miami Valley Hospital, Dayton OH

2021-2022   Fundamentals of Critical Care Support: Obstetrics course, ER and ICU Staff (physicians, nurses), WRNMMC

2023 Fundamentals of Critical Care Support: Obstetrics course, ER and ICU Staff (physicians, nurses), Baltimore Washington Memorial Hospital (BWMC)

**Publications**

**Peer-reviewed journal articles**

1. A. Gugliucci, **K. Mehlhaff**, E. Kinugasa, H. Ogata, R. Hermo, J. Schulze, S. Kimura, Paraoxonase-1 concentrations in end-stage renal disease patients increase after hemodialysis: correlation with low molecular AGE adduct clearance., Clin Chim Acta. 2007 Feb;377 (1-2):213-20. PMID: 17118352
2. **K.Mehlhaff**, C. Baxter, K. Rudinsky, D. McKenna, Lethal neonatal coagulopathy following maternal ingestion of superwarfarin, Obstetrics & Gynecology, 2013 Aug, 122 (2): 500
3. J. Levine, A. Bukowinski, C. Sevick, **K. Mehlhaff**,A. Conlin, Postpartum depression, and timing of spousal military deployment relative to pregnancy and delivery**.** Arh Gyecol Obstet, Published online:  03 Mar 2015, DOI 10.1007/s00404-015-3672-7
4. K. Kohari, **K. Mehlhaff**, A. Merriam, S Abdel-Razeq, O. Grechukhina, D. Leon-Martinez, M. Bahtiyar, A Novel Approach to Serial Amnioinfusion in a Case of Prematrue Rupture of Membranes Near the Limit of Viability.  Am J Perinatol Rep 2018;8e180-183
5. **Mehlhaff KM**, Pettker CM. Establishing and Maintaining a Quality and Safety Program on Labor and Delivery. Clinical obstetrics and gynecology. 2019 Jun. PMID 31169555
6. Hehir M, Berkowitz R, Pettker C, Seligman N, DAlton M, Andrikopoulou M, Havens S, Huang Y, Jain J, **Mehlhaff K**, Friedman A. Characteristics of Deliveries Resulting in Neonatal Hypoxic Ischemic Encephalopathy: A Multi-Centred Retrospective Case Series. Authorea. March 21, 2022, DOI 10.22541/au.164787842.28626246/v1
7. Irani R, Shank J, Gill L, **Mehlhaff K**, Pilliod R, Tureson J, Holliman K, Iyer C, Debink C, Han C, Complete molar pregnancies with a coexisting fetus:  Pregnancy outcomes and review of the literature, Am J Perinatol Rep 2022;12e96-e107
8. Purmalek, M, Kopelman, Z, Griffis, J, **Mehlhaff, K**, Gonzalez-Brown, V, Mediastinal Mass Discovered in the Second Trimester, a Rare Presentation of Hodgkin’s Lymphoma in Pregnancy, *Military Medicine*, 2022;usac346, <https://doi.org/10.1093/milmed/usac346>
9. Robinson SL, Campbell WR, Patel LR, Blickle JG, Goetzman HJ, Hemphill A, **Mehlhaff KM**, Farren KC, Valdez AD, Khan J, Sessom EA, Blaylock JM, Lee RU. Humanitarian Mission at Home: Walter Reed National Military Medical Center's Experience in Operation Allies Refuge and Operation Allies Welcome. Mil Med. 2023 Jan 4;188(1-2):25-29. doi: 10.1093/milmed/usac281. PMID: 36208154.

**Published Abstracts**

1. R. Hermo, T. Menini, C. Hathuc, **K. Makins,** A. Gugliucci, S. Kimura, Increased levels of ischemia-modified albumin in type 2 diabetic patients Diabetes, 2005, May; 54(A537):2231.
2. **K. Makins**, A. Hermo, C. Monroy, K. Satoshi, A. Gugliucci, Ischemia Modified Albumin Levels in Type 2 Diabetic Patients May Be Affected by Short Term Changes In Glycemic Control: A need for Special Reference Range? JAOA, 2005 Aug; 106(C06):323
3. **K. Makins**, R. Hermo, C. Monroy, S. Kimura, A. Gugliucci, Paraoxonase 1 and HDL metabolism in neonates. JAOA, 2005, Aug; 105(C05):322
4. A. Gugliucci, **K. Mehlhaff**, S. Kimura, H. Ogata. Beneficial and Detrimental Effects of Hemodialysis: a Study on Oxidative Stress and Fibrinolysis Biomarkers JAOA 2006, Aug; 106(8):492
5. **K. Mehlhaff**, S. Kimura, H. Ogata, A. Gugliucci. Efficiency of Low Molecular Weight AGE Clearance During Hemodialysis Predicts Increases in Paraoxonase Activity in Chronic Renal Failure Patients, JAOA 2006, Aug; 106(8):482
6. Hehir MP, Friedman AM, Andrikopoulou M, D'Alton ME, DiVito M, Havens S, Huang Y, Jain JA, **Mehlhaff KM**, Pettker CM, Seligman NS. 156: Clinical management of deliveries resulting in hypoxic ischemic encephalopathy. American Journal of Obstetrics & Gynecology. 2020 Jan 1;222(1):S113-4.
7. **Mehlhaff KM**, Pettker CM, Hosier H, Lipkind HS, Reddy UM, Tomlinson M, Ball BR, Lundsberg LS, Raab C. 545: Putting teamwork to the test: a randomized trial of collaboration in electronic fetal monitoring (EFM). American Journal of Obstetrics & Gynecology. 2020 Jan 1;222(1):S351.

**Editorials:**

1. Schulz EV, Zven SE, Dukes SC, Flemming B, Bennett WC, Weber Z, Hemphill AM, Groomes CL, Stammler S, **Mehlhaff KM**. *Mission Essential: Refugee Mission Reflections*. AAP Uniformed Services Section Newsletter. Winter 2022; 37-40.

**Book Chapters:**

1. Pettker, C, **Mehlhaff, K**, Quality and Safety in Labor and Delivery, Evidence Based Labor and Delivery Management, Edited by Berghella, V, Saccone, G, Ghi, T, Roman, A, Jaypee Brothers Medical Publishers, 2019

**Invited Presentations and Webinars**

1. March 2005, Touro University Research Day, Ischemia Modified Albumin:  A New Biomarker of Fetal-Neonatal Hypoxic Stress?
2. March 2006, Touro University Research Day, Efficiency of Low Molecular Weight AGE Clearance During Hemodialysis Predicts Increases in Paraoxonase Activity in Chronic Renal Failure Patients
3. October 2011, ACOG Armed Forces District Meeting
PMD vs. GTD: Antenatally diagnosed placental mesenchymal dysplasia (PMD) coexisting with a di-zygotic twin pregnancy presenting with high-risk metastatic gestational trophoblastic disease (GTD) at fetal viability.
4. June 2013, Wright State University/Wright Patterson Air Force Base Residency Research Day, Postpartum Depression and Timing of Spousal Military Deployment Relative to Pregnancy and Delivery
5. November 2014, ACOG Armed Forces District Meeting                                                          Postpartum Depression and Timing of Spousal Military Deployment Relative to Pregnancy and Delivery
6. May 2019, Yale Department of Obstetrics, Gynecology and Reproductive Sciences
Yale Collaborative Fetal Monitoring Study:  A Randomized Control Trial
7. October 2019, MCIC Obstetrics Leadership Committee Meeting, Yale Collaborative Fetal Monitoring Study:  A Randomized Control Trial
8. February 2021, Clinical Communities Speaker Series; Emerging Priorities in Women’s Health, Defense Health Agency
9. October 2022, Keynote Speaker, Pregnancy and Infant Loss Awareness Ceremony, WRNMMC
10. January 2023, Perinatal Mental Health, Panelist, ACOG Armed Forces District, 123 Moms, www.acog.org/education-and-events/webinars/armed-forces-district-123-moms

**Poster Presentations**

1. March 2005, **Mehlhaff, K**, Presenter, HDL in early life:  a study of HDL subclasses, lecithin cholesterol acyl transferase and paraoxonase in neonates.  Touro University Research Day
2. June 2005, **Mehlhaff, K**, Presenter, Ischemia Modified Albumin Levels in Type 2 Diabetic Patients May Be Affected by Short Term Changes in Glycemic Control:  A Need for Special Reference Range?  Drug Information Association Annual Conference, February 2020, Yale Collaborative Fetal Monitoring Study:  A Randomized Control Trial

Society for Maternal Fetal Medicine, Annual Pregnancy Meeting, Presenter

1. October 2005, **Mehlhaff, K**, Presenter, Ischemia Modified Albumin Levels in Type 2 Diabetic Patients May Be Affected by Short Term Changes in Glycemic Control:  A Need for Special Reference Range? AOA Annual Student Research Poster Competition, Presenter
2. March 2006, **Mehlhaff, K**, Presenter, Low molecular weight fractions in uremic plasma produce a time and dose dependent inhibition of paraoxonase-1:  hemodialysis increases activity of this antioxidant enzyme.  Touro University Research Day, Presenter
3. October 2012, **Mehlhaff, K**, Presenter, Lethal neonatal coagulopathy following maternal ingestion of superwarfarin, ACOG Armed Forces District Meeting, Presenter
4. September 2017, **Mehlhaff, K,** Presenter, Postpartum Depression and Timing of Spousal Military Deployment Relative to Pregnancy and Delivery, 91st Perinatal & Developmental Medicine Symposium, Presenter
5. May 2019, **Mehlhaff, K**, Presenter, Multidisciplinary Severe Maternal Morbidity Review Committee: from creation to practice change, Yale New Haven Hospital:  Safety, Quality and Experience Conference
6. May 2019, **Mehlhaff, K,** Presenter, Improvement of Operative Vaginal Delivery Training in Residency: A Single Institution Experience, Medical Education Day at Yale
7. February 2020, **Mehlhaff, K**, Presenter, Clinical Management of deliveries resulting in hypoxic ischemic encephalopathy, Society for Maternal Fetal Medicine, Annual Pregnancy Meeting
8. October 2020, **Mehlhaff, K**, Presenter, Surgical Management of Obstetric Hemorrhage:  A feasibility study using the Emergency Obstetrics Surgery Simulator, Armed Forces District, ACOG
9. October 2021, Borham, K (presenter), author, Promoting breast milk expression to improve lactation among mothers of infants admitted to the neonatal intensive care unit: Quality Improvement Project, Armed Forces District, ACOG, 10/10/2021; 338970;6
10. October 2021, Chatfield, L (presenter), author, Provider Adherence to Aspirin Prophylaxis Recommendations in Pregnancy at a Single Military Treatment Facility: A Quality Improvement Project, Armed Forces District, ACOG, 10/10/2021; 338975; 11
11. October 2021, Benz, A (presenter), senior author, Severe Maternal Morbidity Review – Feasibility and Potential Benefit for the Military Health System, Armed Forces District, ACOG, 10/10/2021; 338965; 1
12. October 2022, Chop, G (presenter), senior author, Transient Non-Immune Hydrops Fetalis Following Indomethacin Tocolysis, Armed Forces District, ACOG, 10/10/2021; 338977; 13