

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS
DEPARTMENT OF WOMEN'S AND GENDER STUDIES

Erica E. Marsh, M.D., M.S., associate professor of obstetrics and gynecology, with tenure, Department of Obstetrics and Gynecology, Medical School, and associate professor of women's and gender studies, without tenure, Department of Women's and Gender Studies, College of Literature, Science, and the Arts, is recommended for promotion to professor of obstetrics and gynecology, with tenure, Department of Obstetrics and Gynecology, Medical School, and professor of women's and gender studies, without tenure, Department of Women's and Gender Studies, College of Literature, Science, and the Arts.

Academic Degrees:

M.S.	2008	Northwestern University
M.D.	2001	Harvard University
B.A	1991	Harvard University

Professional Record:

2019-Present	Associate Professor of Women's and Gender Studies, without tenure, University of Michigan
2016-Present	Associate Professor of Obstetrics and Gynecology, with tenure, University of Michigan
2016-Present	Adjunct Associate Professor of Obstetrics and Gynecology, Northwestern University
2008-2016	Assistant Professor of Obstetrics and Gynecology, Northwestern University

Summary of Evaluation:

Teaching: Dr. Marsh teaches medical students, residents and fellows through mentoring and clinical care in the Center for Reproductive Medicine. She is a mentor to faculty, graduate students, medical students in the Undergraduate Research Opportunity Program, house officers, and reproductive endocrinology fellows and was nominated as a UROP outstanding mentor in 2019. Dr. Marsh lectures in the School of Public Health and in the Life Sciences Institute.

Research: Dr. Marsh is a physician scientist who focuses on uterine fibroids and reproductive health disparities. Her laboratory investigates the pathophysiology and epidemiology of fibroids and she is interested in the extracellular matrix (ECM) and understanding the role of microRNA in the development of fibroid ECM. Her

research is novel and tackles gaps in our current knowledge base. Dr. Marsh received the American Society for Reproductive Medicine Star Award in 2017, recognizing members who have presented during nine of the last annual meetings or scientific congresses. Her research has been well-funded through the NIH, and institutional awards. Current NIH funding supports the study of the epidemiology of fibroids amongst LatinX females and the ovarian reserve in a cohort of reproductive aged African-American women. Dr. Marsh is the director of community engagement for MICHR. Most recently, she was awarded an NIH grant to address disparities in COVID-19 using the OTA mechanism. She has published 55 peer-reviewed articles, and has presented her research on 41 occasions, by invitation, including an international presentation for the Annual Scientific Meeting of the Society of Reproductive Investigation in Paris, France in 2019.

Recent and Significant Publications:

Kelley A, Qin Y, Marsh EE, Dupree J. Disparities in Accessing Infertility Care in the United States: Results from the National Health and Nutrition Examination Survey, 2013-2016. *Fertil Steril* June 27, 2019.

George JW, Fan H, Johnson B, Carpenter TJ, Foy KK, Chatterjee A, Patterson AL, Koeman J, Adams M, Madaj ZB, Chesla D, Marsh EE, Triche TJ, Shen H, Teixeira JM: Integrated Epigenome, Exome, and Transcriptome Analyses Reveal Molecular Subtypes and Homeotic Transformation in Uterine Fibroids. *Cell Rep*. Dec 17;29(12):4069-4085, 2019.

Marsh EE, Al-Hendy A, Kappus D, Galitsky A, Stewart EA, Kerolous M. Burden: Prevalence, and Treatment of Uterine Fibroids: A Survey of US Women. *J Womens Health (Larchmt)*. Nov;27(11):1359-1367, 2018.

Bernardi L, Carnethon M, de Chavez PJ, Ikheba DE, Neff LM, Baird DD, Marsh EE: Relationship Between Obesity and Anti-Mullerian Hormone in Reproductive-Aged African-American Women. *Obesity (Silver Spring)*. Jan;25(1):229-235, 2017.

Lawson AK, McGuire JM, Noncent E, Olivieri J, Smith KN, Marsh EE: Disparities in Counseling Female Cancer Patients for Fertility Preservation: Adding Insult to Injury? *J Womens Health (Larchmt)*. Aug;26(8):886-891, 2017.

Service: Dr. Marsh is the director of the Division of Reproductive Endocrinology and Infertility, and was appointed as the S. Jan Behrman Collegiate Professor of Reproductive Medicine in 2019. She is interested in the interplay between obesity and glucose dysregulation and fibroid development, and seeks to understand drivers of patient knowledge around fibroids, as well as factors that guide patient outcomes and decision-making around treatment. She founded the Reproductive Subject Registry, and Sample Repository to establish clinical specimens and obstetrics and gynecology patients willing to learn about research studies. She is the founder of the Women's

Health and Reproductive Disparities Collaborative to bring people together who are interested in reproductive health disparities research.

Dr. Marsh is an ad hoc reviewer for eight journals, and has been an Oral Boards Examiner for the Reproductive Endocrinology and Infertility Subspecialty Exam for the American Board of Obstetrics and Gynecology since 2017. She has been a member of the American Gynecological and Obstetrical Society's Fellowship Committee and Nominations Committee since 2019. She has been the secretary/treasurer of the Society for Reproductive Endocrinology and Infertility since 2019.

External Reviewers:

Reviewer A: “[Dr. Marsh’s] concern for the impact of fibroids on women, particularly women of color, has led to numerous research efforts to advance knowledge in this area that affects and compromises the quality of life for so many...She is an exceptional clinician, with deep breadth and depth of knowledge.”

Reviewer B: “Dr. Marsh has been an exemplar role model as a teacher and mentor throughout her career...Not only does she have a list of successful trainees and mentees, who continue in prominent positions at academic institutions throughout the country...she has had several prestigious awards.”

Reviewer C: “Dr. Marsh combines sophisticated understanding not only of clinical medicine, but also of the organization of health care delivery both among underserved populations in the United States, with rigorous empirical methods and cutting-edge innovation, producing actionable and relevant findings. I would describe Dr. Marsh as a productive and innovative scholar with solid technical skills who has committed herself to addressing important questions at the heart of healthcare delivery.”

Reviewer D: “One of her many outstanding publications revealed the significant negative impact of fibroids on quality of life, especially in racial/ethnic minorities [sic] and women in lower-income brackets...Dr. Marsh is also recognized for her work in health disparities/inequities related to fertility preservation. Another outstanding publication showed, for the first time, a significant association between obesity and serum anti-mullerian hormone in African American women...”

Reviewer E: “Dr. Marsh stands out as a leader in her specialty in many areas. There are few physician scientists successful in acquiring NIH funding, publications (124) and mentors and supports our pipeline of reproductive health researchers and physicians. She is the rare example of someone who has succeeded in all areas of academics and the University of Michigan is fortunate to have her.”

Reviewer F: “Dr. Marsh has an impressive record of institutional, community and professional service...I am impressed by the depth and breadth of Dr. Marsh’s engagement...I believe that Dr. Marsh is an inspirational leader in the field and is

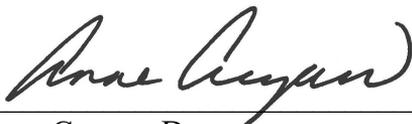
qualified and deserving of this promotion. I have no doubt that Dr. Marsh would be promoted to this level at [my institution], in fact, we would be truly honored to have a physician and scholar of her stature at our institution.”

Summary of Recommendations:

Dr. Marsh is an exceptional physician, researcher, and leader in the Department of Obstetrics and Gynecology at Michigan Medicine and the Department of Women’s and Gender Studies in the College of Literature, Sciences, and the Arts. She has a clear interest and focus in health disparities. I am pleased to recommend Erica E. Marsh, M.D., M.S. for promotion to professor of obstetrics and gynecology, with tenure, Department of Obstetrics and Gynecology, Medical School, and professor of women’s and gender studies, Department of Women’s and Gender Studies, College of Literature, Science, and the Arts.



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