

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF RADIATION ONCOLOGY

Reshma Jagsi, M.D., D.Phil., associate professor of radiation oncology, with tenure, Department of Radiation Oncology, Medical School, is recommended for promotion to professor of radiation oncology, with tenure, Department of Radiation Oncology, Medical School.

Academic Degrees:

D.Phil.	2002	Oxford University, Oxford, England
M.D.	2001	Harvard Medical School
A.B.	1995	Harvard-Radcliffe Colleges

Professional Record:

2011-present	Associate Professor of Radiation Oncology, University of Michigan
2007-2011	Assistant Professor of Radiation Oncology, University of Michigan

Summary of Evaluation:

Teaching: Dr. Jagsi is a dedicated and able teacher. She has been particularly active in graduate medical education and has served on the graduate medical education committee in our department since joining our faculty. She now serves as our residency program director and was recently awarded a departmental "Teacher of the Year" award by the residents in recognition of her commitment to teaching. Each of the radiation oncology residents spends at least three months rotating with her, learning about breast cancer by seeing her interact with her patients and by discussing cases and research papers with her. Many of the residents who have rotated with her have then been inspired to conduct research projects to continue working under her mentorship. Dr. Jagsi also teaches our residents and medical students through the regularly scheduled teaching conferences, journal clubs, and seminars. Dr. Jagsi is also the medical student clerkship director. Dr. Jagsi is relatively unique, as she teaches a number of other groups across the university as well. For example, she has taught law students in a weekly mini-seminar for several years and lectured in a seminar series on Women and the Economy for the Institute for Research on Women and Gender. She redesigned and taught a 30-session weekly seminar for the health services-oriented residents participating in the Robert Wood Johnson Foundation Clinical Scholars Program for which she continues to provide guest lectures, and she has mentored several RWJ fellows in research projects as well. She has also lectured UM undergraduates in sociology and women's studies courses. Dr. Jagsi has also given annual lectures for the Michigan State radiation therapy students. Dr. Jagsi has been invited to discuss medical education and faculty development at a number of national venues. She has a talent for explaining difficult concepts and synthesizing diverse studies, so she is often invited to serve as a faculty discussant or lecturer at prestigious national meetings such as those of the American Society for Clinical Oncology and the American Society for Radiation Oncology. She has also been active in peer education by lecturing in numerous conferences and Continuing Medical Education Courses hosted by the University of Michigan and other organizations. She has also

mentored fellows and junior faculty from around the world as a repeatedly invited faculty member in the prestigious, intensive week-long course in clinical trial design hosted by the American Association for Cancer Research, the European Society for Medical Oncology, and the European Organization for Research and Treatment of Cancer.

Research: Dr. Jagsi has been exceptionally productive in her research. She has published over 100 original research papers in peer-reviewed journals, as well as numerous commentaries and thought pieces. Her publications have appeared in high-impact journals such as the *New England Journal of Medicine*, *JAMA*, *Annals of Internal Medicine*, and the *Journal of Clinical Oncology*. She has served as first or senior author on the vast majority of these publications (over 70%), and the majority of this work was written since she was last considered for promotion. She is well funded and has held multiple independent grants from the NIH. When she joined our faculty, she immediately obtained a number of seed grants, which she then leveraged into several additional substantial grants. These included grants from the American Cancer Society, the Robert Wood Johnson Foundation, and an R01 grant from the National Institutes of Health. Since her promotion to associate professor, she has diligently and successfully mentored others in grant submissions and has also received several additional grants herself, including a second grant of independent funding from the National Institutes of Health as a project director for the first of three projects in a large, integrated program project grant developed by her health services research group. She has also recently been invited to develop a large new grant to promote physician-scientist career development by the Doris Duke Foundation, after officers there took note of her research in this area and independently approached her after deciding to commit substantial resources to build on her work. She has gained an international reputation both as a breast cancer researcher in radiation oncology and as a social scientist with expertise in gender disparities in the medical profession, and she is a highly desired presenter, having been invited to speak at multiple prestigious institutions in the United States and beyond, including the International Atomic Energy Agency of the United Nations and the Institute of Medicine. Her stature has been recognized by her appointment to exclusive and influential groups such as the Oxford Early Breast Cancer Trialists Steering Committee.

Dr. Jagsi's primary research focus has been on improving the quality of care delivered to patients with breast cancer. She seeks to do this in two ways: first, through clinical research to improve the efficacy and safety of the radiation therapy used to treat breast cancer, and second, through health services research to improve patient decision-making, knowledge, and access to appropriate care. She has published a number of highly regarded clinical studies, and these have led to prestigious appointments in at the national level. She currently serves as the principal investigator of a Phase I study of a potential radiosensitizing medication in conjunction with breast radiotherapy for aggressive cancers (as well as the subsequent Phase II concept now under development through the national cancer cooperative group system), the PI of a national trial of omission of radiotherapy in patients with biologically favorable breast cancer after lumpectomy, Radiation Therapy Liaison to the Breast Committee of the Southwest Oncology Group, and a member of the prestigious Breast Oncology Locoregional Disease Task Force of the National Cancer Institute (which reviews all large locoregional breast cancer trial proposals). She is the patient outcomes specialist on a large statewide collaborative quality initiative for breast radiotherapy and expert panel member on an international consortium investigating patient

reported outcomes in breast cancer. In addition, she has conducted multiple influential studies with the CanSORT collaborative group, which partners with SEER registries to gather patient-reported data regarding treatment receipt, experiences, and decision-making. As the sole radiation oncologist in that highly visible group, she has been able to provide a unique perspective and to lead a number of analyses with important implications for the improvement of breast cancer care in this country. Another important focus of Dr. Jagsi's research is upon the medical profession more generally, and her work in that area has primarily been focused on gender equity and predictors of success within academic medicine. She has established herself as an international authority in this area as well, having published several highly cited studies on this subject. This work has also led to numerous national speaking engagements, including keynote speeches at a day-long Brown University symposium, the Mary Elizabeth Garrett Lecture at Johns Hopkins, and the Clipp-Speer Visiting Professorship at Duke University, and influential talks to groups such as the internal medicine department chairs at the annual meeting of the Association of Professors of Medicine. Three medical schools and a professional society in Japan have recently invited her to share her work through a series of visiting professorships there.

Recent and Significant Publications:

Jagsi R, Griffith K, Stewart A, Sambuco D, DeCastro R, Ubel P: Gender differences in the salaries of physician researchers. *JAMA* 307:2410-2417, 2012.

DeCastro R, Sambuco D, Stewart A, Ubel P, Jagsi R: Mentor Networks in Academic Medicine: Moving Beyond a Dyadic Conception of Mentoring for Junior Faculty Researchers. *Acad Med* 88:488-496, 2013.

Jagsi R, Jiang J, Momoh AO, Alderman AK, Giordano SH, Buchholz TA, Kronowitz SJ, Smith BD: Trends and variation in use of breast reconstruction in breast cancer patients undergoing mastectomy in the United States. *Journal of Clinical Oncology* 32:919-926, 2014.

Jagsi R, Chadha M, Moni J, Ballman K, Laurie F, Buchholz T, Giuliano A, Haffty B: Radiation field design on the ACOSOG Z0011 trial. *Journal of Clinical Oncology* 32:3600-3606, 2014.

Jagsi R, Griffith K, Kurian A, Morrow M, Hamilton A, Graff J, Katz S, Hawley S: Concerns about Cancer Risk and Experiences with Genetic Testing in a Diverse Population of Patients with Breast Cancer. *Journal of Clinical Oncology* 33:1584-1591, 2015.

Service: Dr. Jagsi has been a strong contributor to administrative service as well and now serves as our department's deputy chair. She served for several years before this as the associate chair for faculty affairs. She has been an active member of the Graduate Medical Education Committees in the department, helping to develop and improve the educational curriculum and to interview medical student applicants. She serves on the Quality Improvement Committee in the department, providing peer review of clinical services. She serves on the Cancer Center's Senior Leadership Committee and on the institution's ADVANCE committee, as a natural extension of her academic work in the area of promoting gender equity in faculty development. She also serves in a number of prestigious administrative positions at the national level. These include

serving as the chair of the Ethics Committee and member of the Scientific Program Committee that reviews abstracts submitted to the American Society for Clinical Oncology, serving as a question-writer for the American Board of Radiology's certification examinations, and serving as a grant reviewer for numerous organizations—most notably the Radiation Oncology Institute for which she serves as chair of the Research Committee. She performs peer review service for a wide range of high-impact journals, and she is on the editorial board of the *Journal of Clinical Oncology* and *JAMA Oncology*, in addition to serving as a senior editor of the *International Journal of Radiation Oncology Biology Physics*—the flagship journal of her field.

External Reviewers:

Reviewer A: “Her research is characterized by its rigor and she consistently publishes in the highest impact medical journals...There is virtually no one who studies issues related to gender and academic medicine who is not well versed in Dr. Jagsi's papers...The University of Michigan is indeed fortunate to have such a leader, visionary, role model and change agent on your faculty.”

Reviewer B: “The variety and scope of her research clearly marks her as an accomplished academic in the forefront of her peers. Her work spans several disciplines with a number of very senior positions. She clearly is able to juggle many different roles and to be effective in them. Her work on gender underscores her commitment to diversity in academic medicine. She would surely be competitive for a position of professor of medicine at my institution and likely anywhere.”

Reviewer C: “...she has proven herself to be focused with a unique niche within academic medicine that has yielded her productive and impressive grant funding in areas of research that are of interest to granting agencies and has contributed to our-peer-reviewed literature.... Dr. Jagsi is a proven leader in our field. I consider her to be qualified for the most coveted Radiation Oncology Chair positions. You have a unique individual in Reshma Jagsi and I am happy to support her proposed promotion...”

Reviewer D: “Reshma is a natural communicator and teacher. Importantly, Dr. Jagsi has an extraordinary track record of administrative service and leadership in our field, as documented by her serving in innumerable committees and editorial boards. She is an opinion leader and a very productive accomplished ambassador for Radiation Oncology....Reshma is a rising star in our field and a natural leader. Any academic institution would be extremely fortunate to have a faculty member like Dr. Jagsi...”

Reviewer E: “Dr. Jagsi certainly meets the promotion criteria for Professor with Tenure on the Instructional Track at the University of Michigan, as she has made pioneering contributions to scholarly research and is both a gifted educator and outstanding institutional citizen. She has a national and international reputation, and models collegiality, integrity, scholarship and excellence....Dr. Jagsi is in the top 1% of individuals at her level nationwide.”

Summary of Recommendation:

Dr. Jagsi has a national reputation as an expert in health services research as it applies to the advancement of women in medicine with specific expertise in breast cancer research and comparative clinical effectiveness of IMRT and 3D conformal therapy. Her research career is well launched, with an extraordinary publications record and external funding. She is an outstanding physician with a busy clinical practice and a highly regarded teacher. I enthusiastically recommend Reshma Jagsi, M.D., D.Phil. for promotion to professor of radiation oncology, with tenure, Department of Radiation Oncology, Medical School.



Marschall S. Runge, M.D., Ph.D.
Executive Vice President for Medical Affairs
Dean, Medical School

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