

PROMOTION RECOMMENDATION  
UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF ORTHOPAEDIC SURGERY

Janet S. Biermann, M.D., associate professor of orthopaedic surgery, with tenure, Department of Orthopaedic Surgery, Medical School, is recommended for promotion to professor of orthopaedic surgery, with tenure, Department of Orthopaedic Surgery, Medical School.

Academic Degrees:

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| M.D. | 1987 | Stanford University |
| B.S. | 1983 | Cornell University  |

Professional Record:

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| 2002–present | Associate Professor of Orthopaedic Surgery, University of Michigan                      |
| 1995–2002    | Assistant Professor of Surgery, Section of Orthopaedic Surgery, University of Michigan  |
| 1993–1995    | Lecturer, Department of Surgery, Section of Orthopaedic Surgery, University of Michigan |

Summary of Evaluation:

Teaching: Dr. Biermann has demonstrated a strong commitment to teaching at multiple levels. Her largest time commitment is to the residency training program in orthopaedic surgery. As the first and only faculty member with sub-specialty training in musculoskeletal oncology, Dr. Biermann singlehandedly provides all teaching in this important area of orthopaedics, including a curriculum of didactic lectures which she developed. She also provides significant clinical mentoring as every resident has a two month, one-on-one rotation with her. The day long orthopaedic oncology review course she designed and teaches is offered each year. It is open to trainees from residency programs beyond UM and attracts between 140 and 160 attendees annually. Dr. Biermann is also active in peer education, presenting regularly at national courses and publishing a number of review articles in her field that serve as resources for orthopaedic surgeons. Additionally, she has become deeply involved in patient education through the internet, contributing numerous articles to the website [www.orthoinfo.com](http://www.orthoinfo.com). This area has also been a scholarly focus for Dr. Biermann, and her expertise has been recognized nationally and is reflected in her extensive service on educational committees for several professional societies. Notably, she served as chair of the American Academy of Orthopaedic Surgeons (AAOS) Patient Education Committee.

Research: Dr. Biermann's research has focused on two key areas: evaluation of the quality of information about cancer available over the internet, and treatment of musculoskeletal tumors, especially evidence-based guidelines. She has 68 peer-reviewed publications, 23 book chapters, and numerous articles published in the national media. Dr. Biermann is widely recognized for her expertise in sarcoma, and has been integral in the development of a Destination Program in this area at the University of Michigan. She has co-authored the only published manuscript on evidence-based guidelines in the biopsy of musculoskeletal tumors, and in her role as chair of the Bone Tumor Guidelines Committee at the National Comprehensive Cancer Network (NCCN), has published the

Bone Tumor Guidelines, the only existing guidelines for the multidisciplinary management of bone sarcoma.

Recent and Significant Publications:

Hryhorczuk AL, Strouse PJ, Biermann JS: Accuracy of CT-guided percutaneous core needle biopsy for assessment of pediatric musculoskeletal lesions. *Pediatr Radiol* 41:848-857, 2011.

Biermann JS, Adkins DR, Benjamin RS, Brigman B, Chow W, Conrad EU 3rd, Frassica DA, Frassica FJ, George S, Hande KR, Hornicek FJ, Letson GD, Mayerson J, McGarry SV, McGrath B, Morris CD, O'Donnell RJ, Randall RL, Santana VM, Satcher RL, Siegel HJ, Somaiah N, Yasko AW: "Bone Cancer," National Comprehensive Cancer Network Bone Cancer Panel. *J Natl Compr Canc Netw* 8:688-712, 2010.

Worden FP, Taylor JMG, Biermann JS, Sondak VK, Leu K, Chugh R, McGinn C, Zalupski MM, Baker LH: Randomized phase II evaluation of 6 g/m<sup>2</sup> of ifosfamide plus doxorubicin & G-CSF compared With 12 g/m<sup>2</sup> of ifosfamide plus doxorubicin & G-CSF in the treatment of poor prognosis soft tissue sarcoma. *Journal of Clinical Oncology* 23:105-112, 2005.

Blakemore L, Hall J, Biermann JS: Women in surgical residency training programs. *The Journal of Bone and Joint Surgery* 85:2477-2480, 2003.

Lee C, Smith C, Hall J, Waters WB, Biermann JS: Bladder cancer facts: Accuracy of information on the internet. *Journal of Urology* 170:1756-1760, 2003.

Service: Dr. Biermann created and directs the Orthopaedic Oncology Program at Michigan since its inception. Her vision included establishing the University of Michigan as a preeminent referral center for sarcoma which has been realized. Dr. Biermann and Dr. Schuetze, in medical oncology, as co-directors, were awarded Destination Program status by the UMHS for their program in treatment of sarcomas. The service sees 600 new patients annually. The UM Sarcoma Group has published extensively in clinical and basic science areas and has become a national referral center, with extensive national and institutional clinical trials. In the Medical School she has served on the Advisory Committee for Appointments, Promotions and Tenure (ACAPT) and as a faculty ombudsman. In her department, Dr. Biermann directs the Faculty Development Program, served on the Research Advisory Committee, and has played a leading role with website development. At the national level, Dr. Biermann has been very active. She was a co-founder and later held a position on the board of directors of the Connective Tissue Oncology Society, which is the largest international sarcoma organization. Dr. Biermann recently was president of the pre-eminent orthopaedic oncologist professional society; the Musculoskeletal Tumor Society (MTS). Her national and international stature is further evidenced by her appointment to the Myeloma Guidelines Committee and her appointment as chair of the NCCN Bone Tumor Guidelines Committee.

External Reviewers:

Reviewer A: "Dr. Biermann has a reputation as an innovative clinician and clinical researcher. Her presentations at international meetings are always well prepared and insightful and her participation as both commentator and collaborator is frequently sought at the international level."

Reviewer B: "...I'm highly supportive of Dr. Biermann's candidacy for professor on the Instructional track. The justification for my recommendation is that her body of work has had an impact nationally and internationally in educating physicians and, in addition, her scholarly output and service have been remarkable."

Reviewer C: "Many of Dr. Biermann's publications are in prestigious journals and her proposed guidelines for classification and treatment have been well-received and influenced national clinical practice. Dr. Biermann has also assumed many leadership roles in peer group societies, including the presidency of the Ruth Jackson Society and the Musculoskeletal Oncology Society....Dr. Biermann has been a very important mentor and role model for other women contemplating and pursuing careers in orthopaedic surgery."

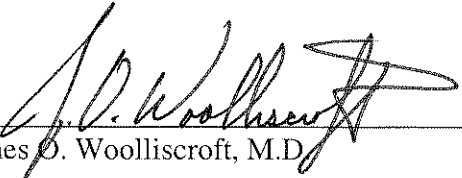
Reviewer D: "...she is among the best known surgeons in the field of musculoskeletal oncology....She has been the only orthopaedic oncologist at the University of Michigan in my memory. This is an essential and important field for patient care and medical education. She is known as a very good teacher."

Reviewer E: "Dr. Biermann has demonstrated prodigious scholarly activity as well as leadership capability. She is a past President of the Musculoskeletal Tumor Society; and has been the Chair of the Bone Committee for the National Comprehensive Cancer Network. Both of these are very highly regarded positions and only veritable national authorities are invited to be considered....She is recognized by her peers as an elite academic orthopaedic oncologist and certainly warrants promotion to Professor."

Reviewer F: "Sybil Biermann is perhaps the preeminent female orthopaedic oncologist in the nation. She is also internationally known. She clearly represents the classic triple threat of a great physician-clinical prowess, teaching expertise and research achievements."

Summary of Recommendation:

Dr. Biermann is a highly valued member of the Department of Orthopaedic Surgery and the Cancer Center. She has a passion for academic medicine and has an established record of leadership both nationally and to our institution which will continue for years to come. Therefore, I am pleased to recommend Janet S. Biermann for promotion to professor of orthopaedic surgery, with tenure, Department of Orthopaedic Surgery, Medical School.

  
James O. Woolliscroft, M.D.  
Dean  
*Lyle C. Roll Professor of Medicine*

May 2012