

PROMOTION RECOMMENDATION  
UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF ANESTHESIOLOGY

Approved by the Regents  
May 14, 2009

Carmen R. Green, M.D., associate professor of anesthesiology, with tenure, Department of Anesthesiology, Medical School, is recommended for promotion to professor of anesthesiology, with tenure, Department of Anesthesiology, Medical School [also associate professor of health management and policy, without tenure, School of Public Health].

Academic Degrees:

M.D.	1987	Michigan State University
B.S.	1983	University of Michigan, Flint

Professional Record:

2008-present	Associate Professor of Health Management and Policy, University of Michigan
2003-present	Associate Professor of Anesthesiology, University of Michigan
1996-2003	Assistant Professor of Anesthesiology, University of Michigan
1993-1996	Lecturer, Department of Anesthesiology, University of Michigan

Summary of Evaluation:

Teaching: Dr. Green is one of eight anesthesiology faculty who specialize in the subspecialty of pain management. In the field of anesthesiology, the training requirements are a minimum of two months in the subspecialty areas of anesthesiology, except, pain management requires a minimum of three months for each of the 114 residents. It is therefore essential that our institution have a strong pain management training program to allow us to have an approved and vibrant residency. Dr. Green is one of the senior members of the pain management division. Over the years she has also managed the Acute Pain Service from 1997 to 2006 in the University teaching hospital. She was one of the faculty who developed and expanded this essential postoperative service to ensure that surgical patients could recover from their procedures in reasonable comfort. She has also led the inpatient consult service for inpatients that had significant pain issues. Anesthesiology faculty are evaluated every day they work with residents in the operating rooms, and are also evaluated in the pain clinic. Dr. Green received excellent evaluations as a teacher by the resident with whom she works. Her evaluation scores are 4.10 where 5 is the highest score possible.

Research: In spite of having a busy clinical practice, Dr. Green has forged an entire new area of outcomes research. After initiating her research career studying pain in the postoperative period, she began a new area of investigation of disparities in pain management in the late 1990s. Over the next decade of effort, she has become internationally recognized for this ground breaking work. She has discovered fundamental reasons for disparities of pain management among races, genders, and ages. She has not only contributed significantly to the peer-reviewed research, but has also participated in setting national guidelines for the management of postoperative and chronic pain. As other senior academicians, she is now called upon to write editorials in premier journals regarding issues of disparity in pain management. She has had continuous grant funding since 1994. This is impressive given the fact that she was developing an area of research that had little recognition prior to her work.

Dr. Green is currently the principal investigator of grants sponsored by the Robert Wood Johnson Foundation and the Lance Armstrong Foundation, and is a co-investigator on two grants funded by the National Institutes of Health.

Recent and Significant Publications:

Green CR, Ndao-Brumblay SK, West B, Washington T: Differences in prescription opioid analgesic availability: comparing minority and white pharmacies across Michigan. *Journal of Pain* 6(10):689-699, 2005.

Green CR, Ndao-Brumblay SK, Nagrant AM, Baker TA, Rothman E: Race, age, and gender influences among clusters of African American and white patients with chronic pain. *Journal of Pain* 5(3):171-182, 2004.

Green CR, Wheeler JRC, LaPorte F: Clinical decision making in pain management: Contributions of physician and patient characteristics to variations in practice. *Journal of Pain* 4(1):29-29, 2003.

Green CR, Baker TA, Smith EM, Sato Y: The effect of race in older adults presenting for chronic pain management: A comparative study of black and white Americans. *Journal of Pain* 4(2):82-90, 2003.

Green CR, Anderson KO, Baker TA, Campbell LC, et al: The unequal burden of pain: Confronting racial and ethnic disparities in pain. *American Academy of Pain Medicine* 4(3):277-294, 2003.

Service: Dr. Green is assigned 50% time to clinical care of patients in the pain clinic and the operating rooms at the University Hospital. In the pain clinic she cares for patients who have chronic complex pain problems that require a multidisciplinary approach. She diagnoses and coordinates that care with the assistance of other pain physicians, physical therapists, and social workers. She is the busiest clinician in the pain division; seeing more patients on a daily basis than any other faculty member. In addition to this clinical service, she works in the in-house faculty call team for the Women's and Children's Hospital. In this capacity she provides labor analgesia for emergency surgical care for women who are undergoing labor and delivery as well as emergency cesarean sections. She is also the in-house faculty for emergency pediatric operations in Mott Hospital. Our institution is a referral center for high-risk obstetrical care and emergency high-risk pediatric care. She is the faculty anesthesiologist responsible for these important services to our institution and our community when on in-house call.

In addition to her clinical service responsibilities, Dr. Green has a broad array of administrative service responsibilities, not only in the institution and the region, but nationally and internationally. She is on a host of committees within the institution and our national organizations. She is on the editorial board for *Pain Medicine*, the *Journal of Pain*, the *Journal of Opioid Management*, and is now the senior editor for *Pain Medicine*. She is an ad hoc reviewer for nearly every journal that touches the area of pain. She participates in an extensive number of organizations on a national basis. She is a member of the American Academy of Pain Ethics Committee, the American Academy of Pain Communication Committee, and the Scientific Abstract Committee. She is co-director of the Racial and Ethnic Disparities in Pain Treatment Group, coordinates the Women of Color in Academics Taskforce, and a member of the Center for Health Research and Transformation Board. She is requested to present lectures regionally, nationally, and internationally on her area of pain expertise. She has presented to the Rockefeller Foundation in Belagio, Italy; a joint meeting of the American Pain Society and the Canadian Pain Society in Vancouver, British

Columbia; the International Association for Pain Studies in Sydney, Australia; and most recently, two presentations at the World Congress of Pain in Glasgow, Scotland. She has been a visiting professor at the University of Nebraska, Johns Hopkins, University of New Mexico, Tufts University, and Michigan State University.

External Review:

Reviewer A: “Dr. Green’s research work, because it involves clinical epidemiology of pain and pain management in an area which is as yet relatively undeveloped defines her as a leader in this field. Her published results are sound and should inspire others to follow her example. Therefore I would place her at the forefront of a small group of individuals working in the epidemiology of pain.”

Reviewer B: “Her abilities as an investigator and the high regard with which these abilities are viewed by her peers are reflected in her excellent funding record. She has proven her ability to secure research support from the National Institutes of Health, the Robert Wood Johnson Foundation, as well as other private sources such as the Lance Armstrong Foundation and insurers such as Blue Cross and Aetna. These evaluators, as I, judge that Dr. Green is a leading figure in the field of anesthesiology with a focus upon pain medicine and more recently, health services research.”

Reviewer C: “She has served and is currently serving in important roles (e.g., member, chair, director, and co-director) in her department, school, professional organizations, and on national and international committees. These roles have been ongoing and represent a history of involvement and commitment throughout her career.”

Reviewer D: “Since receiving her Associate Professorship, Dr. Green has gone into ‘over-drive’ as an extraordinarily productive member of the academic community of pain medicine thought-leaders. She has truly found her own ‘voice’ and in so doing, she has become ‘the voice’ of this field in recognizing, identifying, describing, and trying to rectify social disparities in pain evaluation, treatment and research.”

Reviewer E: “She is recognized nationally and internationally for her efforts in calling attention to the specific needs of minority populations. She has worked broadly and collaboratively with pain organizations nationally and internationally, and she is a respected clinical researcher with policy expertise. In her activities with the American Pain Foundation and American Pain Society and the American Academy of Pain Management, she has been identified as the expert to both go to and to use in policy discussions and testimony.”

Reviewer F: “Her national and international reputation is extensive. She has done groundbreaking work in revealing disparities in pain treatment. She has been extensively involved in national peer organizational services from editorial boards in her area of interest to a wide variety of national committees both within and outside of the specialty of anesthesiology. Dr. Green has also been selected by the Institute of Medicine to serve as a National Health Policy Fellow in the United States Congress. Her work there was sufficiently recognized that she was invited to testify before congressional committees on issues related to pain and disparity – a role reserved for only the most widely recognized experts.”

Reviewer G: “...Dr. Green has developed a unique academic niche combining her expertise in clinical pain management with a desire to explore the causes and implications of limited access to pain care in elderly and minority populations. She has had a sustained and ongoing achievement in

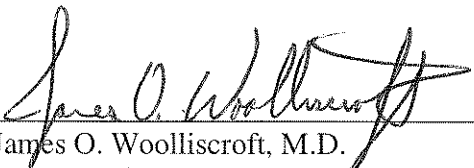
her area of interest, through her population research, publication, extensive service, and educational activities. Through her speaking and writing, Dr. Green is educating care givers to be cognizant of these issues, and through her public policy activities, Dr. Green will have the opportunity to work towards societal solutions.”

Reviewer H: “It would be difficult to find anyone with a stronger commitment to diversity than Dr. Green and this is clearly evident in her scholarship and professional activities. Her national volunteerism is exceptional and important.”

Reviewer I: “Dr. Green has created an important niche for herself by addressing disparities in health care based on gender and race and age, as they relate to pain management. She is clearly one of the most prominent workers in this area based on her publications and her contributions to local, national and international meetings....She is clearly recognized as being one of the most productive people in this area. Dr. Green has influenced local and national health care provision and research in reference to health care by her publications.”

Summary of Recommendation:

Carmen R. Green, M.D. provides outstanding clinical care to her pain patients, as well as those she cares for during obstetric and pediatric emergency care. She is not only an essential member of the pain division, but she has the academic lead for that division, which is not only a clinically essential part of our institution, but a requirement for our institution to have an approved residency program in anesthesiology. This division has one of the largest pain fellowships in the country, training eight postgraduate trainees in the one year fellowship in pain management. Dr. Green has become nationally and internationally recognized for her ground-breaking work in pain disparities among races, genders, and ages. This work has been recognized internationally and specifically in Washington D.C. where she was a Robert Wood Johnson Fellow. Her national and international recognition is demonstrated by her editorial board membership in the premier journals of pain. She is a role model for faculty, especially for women, and women of color. For all these reasons we strongly support the promotion of Dr. Carmen Green to professor in anesthesiology.



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

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