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Department of Family Medicine and Public Health Sciences 2006 Annual Report: Addressing Health Challenges in Michigan

Wayne State University School of Medicine, Department of Family Medicine and Public Health
Sciences

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ANNUAL REPORT



Department of
Family Medicine
and Public Health Sciences

Age Adjusted Cancer Death
Rates Per 100,000 Residents
(2003-2005)



Source: MI Department of Community Health

Addressing Health Challenges in Michigan



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DFMPHS faculty are active in cancer epidemiology research, using the opportunities available through the Metropolitan Detroit Cancer Surveillance System (MDCSS). The MDCSS collects cancer information in Wayne, Oakland and Macomb counties, both for the Michigan Department of Community Health and the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) Program. Along with the Principal Investigator, **Ann Schwartz, PhD** (Internal Medicine), **Kendra Schwartz, MD** (Co-PI) and **John Graff, PhD** (Co-I) manage the large MDCSS SEER research contract.

A number of DFMPHS researchers have played significant roles in collaborations with the SEER program, utilizing MDCSS data for externally-funded research. The list below includes those with projects funded in 2006.

John Graff, PhD

- "Assessing Smoking and Drinking in the Development of Tongue Cancer and Evaluation of Quality of Life Following Different Treatment Options: A Feasibility Study"
- "Health System Factors and Patient Outcomes in Breast Cancer"

Victoria Neale, PhD, MPH

- "Does Use of Alternate Medicine Delay Treatment of Head and Neck Cancer?"

Maryjean Schenk, MD, MPH, MS

- "Pancreatic Cancer Genetic Epidemiology Consortium"

Kendra Schwartz, MD, MSPH

- "A Collaborative Case-Control Study of Renal Cell Carcinoma"
- "Racial Disparities in the Treatment of Prostate Cancer"

Rick Severson, PhD

- "Luminal Lipid Exposure, Genetics and Colon Cancer Risk"
- "Genetic Susceptibility to Infection-Related Cancer"
- "Molecular and Cellular Toxicology with Human Applications"
- "Energy Balance and Breast Cancer in Black and White Women"

Source of Data for Cover Maps

The data for the maps were obtained from the Michigan Department of Community Health website (<http://www.michigan.gov/mdch>). The data were mapped using MapInfo GIS software. This choropleth map uses the "equal count method" to produce the color quartiles, wherein each category has the same number of cases.

Greetings! 2006 was a very busy year for us at Wayne State University as we successfully merged faculty and programs from the Department of Community Medicine and the Center for Health Effectiveness Research into our new Department of Family Medicine and Public Health Sciences. With this merger came a recently-established Masters of Public Health Program. We are currently applying for accreditation status and look forward to expanding this program. In addition, we have established a new Division of Epidemiology and Biostatistics. In recognition of our expanded public health role and community-based faculty interests, we renamed our Practice-based Research Division as the Division of Community and Clinical Translational Research.

I hope you will take time to read about the activities and accomplishments of the Department. We are committed to achieving our new mission of “improving the health, well-being, and environment of individuals, families, and communities by advancing the science and practice of family medicine and public health through innovation and excellence in research and education.”

Maryjean Schenk



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*Interim Vice Chairperson
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Professors

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Terrance L. Albrecht, PhD
Bengt B. Arnetz, MD, PhD, MPH
David Bassett, PhD
Richard Gallagher, PhD
James Gutai, MD
Hikmet Jamil, MD, PhD
Victoria Neale, PhD, MPH
Louis A. Penner, PhD
Kendra Schwartz, MD, MSPH
Richard K. Severson, PhD

Associate Professors

Judith Arnetz, PhD
Rebecca Cline, PhD
John Porcerelli, PhD
Linda Roth, PhD
Maryjean Schenk, MD, MPH, MS
Rosalie Young, PhD

Assistant Professors

Julianne Binienda, PhD
James E. Blessman, Jr., MD, MPH
Patrick Bridge, PhD
Kimberly Campbell-Voytal, PhD
Jira Coumarbatch, MD
Hector M. González, PhD
John Graff, PhD
Felicity Harper, PhD
Nejla Israel, MD
James Janisse, PhD
Nehman Lauder, MD
Tsveti Markova, MD
Virginia Miller, DrPH
Pierre Morris, MD
Sharon Popp, PhD, MSW
Thomas Roe, MD
Frederick C. Rosin, MD
Jinping Xu, MD, MS

In 2006, the Department of Family Medicine merged with the Department of Community Medicine, resulting in the creation of the new WSU Department of Family Medicine and Public Health Sciences (DFMPHS). In conjunction with this merger, several faculty from the Center for Healthcare Effectiveness Research (CHER) also joined the new DFMPHS. Here we introduce faculty who, although not new to WSU, are new colleagues to the faculty from Family Medicine.

Joel Ager, PhD is a long-time member of the WSU faculty and has taught graduate courses in statistics and measurement and provided methodological consultation for many studies. Currently, Dr. Ager serves as Interim Director of the newly-formed Division of Epidemiology and Biostatistics. Dr. Ager has conducted research in the areas of family planning service provision and the effects of fetal toxic substance exposure on child development. Currently, his main methodological interests are in specification of control variables in regression analyses and in development of non-parametric analogues to analysis of variance.



Joel Ager

Judith E. Arnetz, PhD, MPH, PT joined the DFMPHS Division of Occupational and Environmental Health as an Associate Professor. She comes to WSU from Uppsala University in Sweden. Dr. Arnetz's research interests include work-related violence, especially in health care, and the impact of patient participation on the outcomes of care. She has conducted several controlled intervention studies in both acute care and community-based settings.



Judith Arnetz

David Bassett, PhD is a tenured professor and former chair of the Department of Occupational and Environmental Health Sciences. He also holds an adjunct faculty position in the Department of Pharmaceutical Sciences. Currently, he works with DFMPHS faculty as the Master of Public Health (MPH) Graduate Student Officer. He teaches courses in occupational and environmental health sciences and has published extensively in the field of pulmonary and inhalation toxicology.



David Bassett

Kimberly Campbell-Voytal, PhD is an assistant professor in the DFMPHS and an adjunct professor in the Department of Anthropology. A clinical nurse specialist in adult health, she also trained as a medical anthropologist at WSU and received post-graduate training at the University of Michigan. Previously in the Department of Community Medicine, Dr. Campbell-Voytal is a core faculty member in the MPH Program and directs the Public Health Practicum. With 25 years' experience in urban health research and practice, Dr. Campbell-Voytal's interests include the social production of inequity, chronic illness and the management of risk, and the cultural ecology of health.



Kimberly Campbell-Voytal

James P. Gutai, MD is a professor in the DFMPHS and a graduate of Lafayette College and Temple University School of Medicine. He received post-graduate training at the University of Michigan and John Hopkins and is board certified in pediatrics and pediatric endocrinology. Previously in the Department of Community Medicine, Dr. Gutai is responsible for the outstate outreach program of the Morris J. Hood Jr. Comprehensive Diabetes Center, funded since 1999 by the Michigan Department of Community Health. Along with Dr. Campbell-Voytal, he has a funded program for the detection of obese, minority children at risk for developing metabolic syndrome.



James Gutai

James Janisse, PhD is an Assistant Professor in the DFMPHS. He received his PhD from WSU in social psychology with a minor in statistics and measurement. Before joining the DFMPHS he was in the Center for Healthcare Effectiveness Research. His research interests include the impact of alcohol, cocaine and other teratological substances on the fetus, the use of imaging techniques for the study and treatment of epileptic and autistic children, and the examination of aging-related sleep changes across the adult lifespan. Of particular interest has been the development of new statistical tools for modeling dose-response relationships and non-linear developmental changes. Dr. Janisse is a core faculty member in the MPH program, and he teaches the biostatistics courses.



James Janisse

Virginia Miller, DrPH received her doctorate in health systems management from the School of Public Health and Tropical Medicine at Tulane University. She completed a NRSA postdoctoral fellowship in the WSU College of Nursing. Funded research interests have addressed the implications of the Human Genome Project on families with genetic-related disabilities, disability and family issues associated with pediatric brain tumors among urban children, and the impact of welfare reform on health services utilization among low-income families in Michigan. Recently, her work has included studying assisted reproductive technologies related to cancer survivorship and psychosocial issues among families who have multiple births.



Virginia Miller

Rosalie F. Young, PhD is a tenured associate professor from the Department of Community Medicine who continues her instructional and research activities in her new academic home. Dr. Young's research has focused on health disparities, particularly among African Americans, and her current Komen Foundation-funded study offers a healthy living intervention for breast cancer survivors. She teaches the Research Methods course annually in the MPH program and is actively involved in mentoring and advising MPH students and teaching an elective course on aging and health.



Rosalie Young



Family medicine residents are active learners.

We appreciate our
dedicated voluntary
and affiliated faculty
who contribute greatly
to the success of our
educational
programs.

**FULL TIME AFFILIATE
ASSISTANT PROFESSORS**

James Meza, M.D.
Raouf Seifeldin, M.D.

CLINICAL PROFESSORS

Peter Coggan, M.D., M.S.Ed
George Mogill, M.D.
Gary Otsuji, M.D.
Mary Elizabeth Roth, M.D.
Paul T. Werner, M.D.

CLINICAL ASSOCIATE PROFESSORS

Ray Breitenbach, M.D.
George Costea, D.O.
George Dean, M.D.
Cynthia Fisher, M.D.
George Hill, M.D.
Paula Kim, M.D.
David Rodgers, M.D.
Jean Sinkoff, M.D.
Walter J. Talamonti, M.D.
Anthony Vettraino, M.D.

CLINICAL ASSISTANT PROFESSORS

Antonio Aguirre, M.D.
Terence Bielecki, M.D.
Donald Bignotti, M.D.
James Boal, M.D.
Kenneth Bollin, M.D.
Margit Chadwell, M.D.
John Chahbazi, M.D.
Seid Cosovic, M.D.
Braswell Deen, III, M.D.
Keith Defever, M.D.
Anna Demos, M.D.
Michelle Diebold, M.D.
Phillip Durocher, M.D.
Luke Elliot, M.D.
Aaron Ellis, M.D.
Lawrence Fallat, D.P.M.
Daniel Fink, MD
Michael Fox, D.O.
Fabian Fregoli, M.D.
Kathleen Fulgenzi, M.D.
Salvatore Galante, M.D.*
Michael Goldstein, M.D.
Gina Gora, M.D.
Miguel Granados, M.D.
Thomas Graves, M.D.
Fred Grose, M.D.
Kassem Hallak, M.D., M.S.
Adnan Hammad, Ph.D.
Robert Hasbany, M.D.
William Heckman, M.D.
Nikhil Hemady, M.D.
Cecelia Hissong, M.D.
Eileen Hopman, M.D.
Ronald Hunt, M.D.
Neil Jaddou, M.D.
Dennis Joy, M.D.
Steven Karageanes, D.O.
Sander Kushner, D.O.
Paul Lazar, M.D.
Yves Leblanc, M.D.
Robert Lechy, M.D.
John Lehtinen, M.D.

Robert Levine, M.D.
Barbara Levine-Blase, D.O.
Donna Manczak, M.D.
Margaret Meyers, M.D.
Nevena Mihailoff, M.D.
Dariouche Mohammadi, M.D.
Farzin Namei, M.D.
Mark Nugent, M.D.
Natalie Okerson, M.D.
Christopher Pabian, M.D.
Kris Parnicky, M.D.
Mark Paschall, M.D.
Angelo Patsalis, M.D.
Jatin Pithadia, M.D.
Matthew Ptaszkiewicz, M.D.
Dennis Ramus, M.D., C.P.A.
Jaclyn Randel, M.D.
William Raue, D.O.
Nabil Rizk, M.D.
Peter Rodin, D.O.
Kathleen Rollinger, M.D.
Al Romero, M.D.
Leonard Rosen, M.D.
Promita Roychoudhury, M.D.
Barry Scofield, M.D.
James N. Skupski, MD, MPH
Theodore Shively, D.O.
Maria Shreve-Nicolai, M.D.
James Stewart, M.D.
Larry Thompson, M.D.
Rodrigo Tobar, Jr., D.O.
Robert Urban, M.D.
David Walsworth, M.D.
Jill Weber, M.D.
Sander Weckstein, M.D.
Gary Reis Weltman, M.D.
Michael J. Worzniak, M.D.
Gary Wozniak, M.D.
Scott Yaekle, M.D.
Srikala Yedavally-Yellavi, D.O.
Louinda Zahdeh, M.D.
Kamran Zakaria, M.D.
Louis Zako, M.D.
Susan Zeltzer, M.D.

CLINICAL INSTRUCTORS

Howard Schwartz, M.D.
Gayla Zoghlin, M.D.

ADJUNCT ASSOCIATE PROFESSORS

Edward Kerfoot, Ph.D.
Suzanne Mellon, Ph.D.

ADJUNCT ASSISTANT PROFESSORS

Patricia Armstrong, Ph.D.
Joseph Brocato, Ph.D.
Jodie Eckleberry-Hunt, Ph.D.
Lawrence Fischetti, Ph.D.
Jane Thomas, Ph.D.
Anne Van Dyke, Ph.D.
Patricia West, Ph.D., R.N.

ADJUNCT INSTRUCTOR

Roger Wabeke, MSc. CIH

* *deceased*



John B. Waller, Jr., DrPH
October 24, 1936 – January 5, 2006

John Waller, DrPH was a man of compassion and sincere goodwill who served as a public health professional for more than 40 years. He was well known in public health circles locally and nationally, directing the Departments of Health in Detroit and in Newark. At the time of his death, Dr. Waller was senior vice president for urban and community health for the Detroit Medical Center/Wayne State University Community Health Institute.

Dr. Waller had tremendous influence in shaping public health policy and the establishment and delivery of community health systems in Detroit. He was the former chairman of the WSU Department of Community Medicine, director of the WSU Institute for Maternal and Child Health, and director of the WSU Division for the Prevention and Control of Interpersonal Violence. He also served as chairman of the Detroit

Empowerment Zone Corporation. He was chairman of the board of Greater Detroit Area Health Council and chairman of the board of the Detroit Community Health Connection, which operates several community health centers.

A most dedicated public servant, Dr. Waller was the recipient of many honors and awards and held several voluntary board memberships. From 1999 through 2000, he was vice president of the American Public Health Association. Formerly he was a president of the Council of Graduate Programs in Preventive Medicine.

Donations in Dr. Waller's memory may be forwarded to Dr. John B. Waller, Jr. Student Achievement Award, c/o Dr. Schenk, Wayne State University Department of Family Medicine and Public Health Sciences, 101 E. Alexandrine, Detroit, Michigan 48201.



John B. Waller, Jr., DrPH

Planned Giving to the Department of Family Medicine and Public Health Sciences (DFMPHS)

Gifts by alumni and friends can make a positive impact in many ways on the DFMPHS, including its research programs and teaching programs. Carefully planning your investment in the DFMPHS can stretch the value of your gift, enabling you to do much more for the department and our students and faculty than you may think possible.

A carefully planned gift can also benefit you and your family. Your tax savings can be substantially increased, and some planned gifts can provide income for your lifetime or the lifetime of another individual.

Examples of planned gifts include: cash; publicly traded stocks or bonds; a bequest in a will or trust; life-income gifts; retirement fund assets; life insurance; charitable lead trusts; and other assets as well.

Please contact William Winkler, School of Medicine Development Officer, at 313-577-6482 to discuss these gift opportunities in more detail.

Contributions to this fund will support our vital DFMPHS programs.

DFMPHS Faculty in MPH Program

Joel Ager, PhD
 Bengt Arnetz, MD, PhD, MPH
 David Bassett, PhD
 Patrick Bridge, PhD
 Kimberley Campbell-Voytal, PhD
 Frank Castronova, PhD
 Richard Gallagher, PhD
 Hector Gonzalez, PhD
 Ernest Hammel, PhD
 James Janisse, PhD
 Virginia Miller, DrPH
 Victoria Neale, PhD, MPH
 John Porcerelli, PhD
 Linda Roth, PhD
 Maryjean Schenk, MD, MPH, MS
 Kendra Schwartz, MD, MSPH
 Rick Severson, PhD
 Roger Wabeke, MSc
 Rosalie Young, PhD

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Rick Severson, Kimberly McNeil and David Bassett

Along with the merger that the DFMPHS accomplished in 2006, the Master of Public Health (MPH) program also transferred to our department. The MPH is the basic professional degree for anyone who aspires to work in a public health field. **Dr. Rick Severson** is the new Director of the program. We are most fortunate to have **Dr. David Bassett** from the Eugene Applebaum College of Pharmacy and Health Sciences as the new graduate student officer and **Ms. Kimberly McNeil** as the program assistant.

MPH students currently have two tracks to choose from: the Public Health Practice track and the Occupation and Environmental Health track. Many of our DFMPHS faculty are now involved in teaching and advising MPH students. In addition, this program is truly a multidisciplinary effort, with faculty from a multitude of places involved, including the **WSU Department of Internal Medicine, the Department of Pediatrics, the Department of Pharmacology, the Karmanos Cancer Institute, the College of Education, the Eugene Applebaum College of Pharmacy and Health Sciences, and the School of Business Administration.** We also have several faculty from the Henry Ford Health System teaching in our program.

We currently have more than 30 students actively pursuing their MPH degree within the program. Students are required to take several core classes including epidemiology, biostatistics, environmental health, and research methods. They also take elective classes that are tailored to fit their specific needs and interests. In addition, students complete a practicum and project as culminating experiences in the program. In the practicum, our students work with mentors to complete competency-driven projects that address current public health concerns. For instance, at the Detroit Department of Health

and Wellness Promotion, students have been involved in evaluating the Infant Mortality Surveillance and Prenatal Program. At the Wayne County Department of Public Health, students have participated in efforts to refine food-borne illnesses reporting systems and to monitor childhood immunization rates. At the state level, students are working with researchers in the Department of Community Health on the surveillance of infectious and chronic disease. Two students have worked internationally. One MPH student traveled to Sri Lanka to work on the local public health response to senior citizens displaced by the tsunami. Another student worked with the Multicultural Council of Windsor-Essex County, Windsor, Ontario.

After graduation, our students may work in a variety of health care settings. In addition, several of our graduates elect to pursue further training by obtaining a doctoral degree in a specialized field of public health. We are currently preparing our application for accreditation to the Council for Education in Public Health. Stay tuned as we continue to develop and expand this new program within our department.



Kimberly Campbell-Voytal and Rick Severson discuss MPH projects with students.

The new Division of Epidemiology and Biostatistics was created in 2006 within the DFMPHS in conjunction with the merger of the Department of Community Medicine and the Center for Healthcare Effectiveness Research (CHER) with Department of Family Medicine. One mission of the division is to provide methodological support for the planning and execution of federal, state, and other funded research both within the department and for other departments in the School of Medicine, particularly those currently underserved in this area. We also make arrangements with other departments to provide methodological support to residents, fellows and faculty with their research projects. Members of the division are also encouraged to pursue their own projects in either methodological research or in substantive areas of their interest.

Core division faculty are **Joel Ager, PhD**, interim director, and **Richard Severson, PhD, James Janisse, PhD**, and **Kimberly Campbell-Voytal, PhD**. Dr. Severson is an epidemiologist with a particular interest in cancer epidemiology. Drs. Ager and Janisse both have backgrounds in behavioral measurement and statistics. Dr. Ager has special interests in specification of control variables in regression analyses and in rank order analogues to ANOVA. Dr. Janisse's main methodological interests are in multi-level models, structural equation modeling, non-linear regression modeling and simulation methods. Dr. Campbell-Voytal has an anthropology background and is particularly interested in qualitative methods as they can be integrated within quantitative analyses.

We expect to substantially increase the size of the division in the near future. The process for recruiting a permanent director is underway; in conjunction with this recruitment, we also expect to fill at least two other positions in the area of biostatistics/epidemiology. Beyond those near-term additions, further expansion of the division is planned over the next few years.



Kimberly Campbell-Voytal, Joel Ager, James Janisse, and Rick Severson



Janet Olszewski, Director Michigan Department of Community Health; Tsveti Markova, Project Champion and Director of Clinical Operations at University Family Physicians-Detroit; Debra L. Moss, MD, MBA, President and CEO, MPRO.

Congratulations!

In April 2006, the Family Medicine Center at University Family Physicians – Detroit received the prestigious 2005 Governor’s Award of Excellence for Improving Care in the Ambulatory Care Setting. Sponsored by the Michigan Peer Review Organization, Michigan’s Medicare Quality Improvement Organization and Michigan Governor Granholm, the award promotes quality improvement initiatives in the physician office setting that enhance the quality of care received by Medicare beneficiaries. The award honors the staff at our Detroit Family Medicine Center for their commitment to continuously improve chronic disease management in diabetes mellitus.

“Quality and safety is our goal and strengthens our commitment to provide the best health care services that we can. Our efforts have been enhanced through our quality improvement collaborations with MPRO. We are extremely proud to be a recipient of this important award,” said **Tsveti Markova, MD**, project champion and Director of Clinical Operations at University Family Physicians-Detroit. “We chose to follow the criteria for diabetes management due to the high prevalence in our patient population. Through quarterly reports and implementation plans for improvement, we accomplished more than 90% compliance with the American Diabetes Association indicators for monitoring diabetic patients for better control of their blood glucose levels, blood pressure, hyperlipidemia, as well as prevention of complications. I cannot express enough gratitude to everyone who was involved in this initiative: all faculty, residents, staff, and especially our office manager, **Deborah Brown, RN, BSN.**”



John Porcerelli, Hikmet Jamil and Tsveti Markova received the 2006 SOM Teaching Award.

Honors, Awards, and Appointments



Juliann Binienda received her PhD in Curriculum and Instruction.

Terrance L. Albrecht, PhD

- Invited Member, Program Steering Committee, University of Maryland Partnership in Cancer Research and Outreach, National Cancer Institute Minority Institution/Cancer Center Partnership U56.
- Consultant and Advisory Panel Member, Primary Care Reform Initiative, Michigan Department of Community Health and Office of the Michigan Surgeon General
- Invited to give the 2006 Erwin P. Bettinghaus Health Communication Lecture, College of Communication Arts and Sciences, Michigan State University, East Lansing, April 2006.

Rebecca J. W. Cline, PhD

- Distinguished Career Award, Public Health Education and Health Promotion Section, American Public Health Association, November, 2006
- Member, Steering Committee, Health Communication Working Group, American Public Health Association
- Member, Faculty Advisory Committee, Behavioral and Field Research Core, Barbara Ann Karmanos Cancer Institute

Richard Gallagher, PhD

- Awarded, Margaret Hay Edwards Medal for Lifetime Achievement In Cancer Education, the highest award made by the American Association for Cancer Education (AACE) at the 37th Annual Meeting of the American Association for Cancer Education in San Diego, California, October, 2006
- Elected, Advisory Council of the American Association for Cancer Education

Judith Arnetz, PhD

- Judge, Michigan Family Medicine Research Day XXIX, Ann Arbor, MI, May 2006

Juliann Binienda, PhD

- PhD in Curriculum and Instruction, Wayne State University, College of Education, Detroit, MI
- Wayne State University School of Medicine, Department of Family Medicine and Public Health Sciences Teaching Award
- Member, Sinai-Grace Healthy Heart Outreach Program Advisory Board

John Graff, PhD

- Program Committee Chair, North American Association of Central Cancer Registries (NAACCR)
- Steering Committee, National Cancer Institute SEER Program – US National Longitudinal Mortality Study (NLMS)



Sunshine box: Linda Roth was honored for her decision to donate a kidney.

Kimberly Campbell-Voytal, PhD

- School of Medicine 2006 Teaching Award

Felicity Harper, PhD

- National Institutes of Health (NIH) Clinical Research, Loan Repayment Program (*competitive application*)

Hikmet Jamil, MD

- School of Medicine 2006 Teaching Award
- Education session at WNZK Radio Station of the Nations. "The importance of participation of community people in community based research." May 2006
- Coordinator, Advisory Health Committee at Arab American & Chaldean Council (ACC)

Tsveti Markova, MD

- School of Medicine 2006 Teaching Award
- Interim Vice Chair of Clinical Affairs Department of Family Medicine
- Recipient, 2005 Governor's Award of Excellence for Improving Care in Ambulatory Care Setting
- Elected Representative, 2006 American Academy of Family Physicians Conference on Special Constituencies, Michigan Academy of Family Physicians representative for Women's Constituency
- Elected, Board of Directors, Michigan Academy of Family Physicians
- Elected Delegate, Southeast Michigan Academy of Family Physicians to the Congress of Delegates, Michigan Academy of Family Physicians
- Dean's Appointment to the Department of Internal Medicine Review Committee; Chair, Educational subcommittee
- Invited Judge, Sinai-Grace Hospital Research Day
- Invited Judge, Tar Wars AAFP project posters, Oakwood Hospital
- Elected Member-at-Large, Medical Staff Operations Committee, Sinai Grace Hospital, Detroit

Virginia Miller, DrPH

- Appointed, Board of Directors of Recycle Detroit, November 2006

Anne Victoria Neale, PhD

- Awarded, American Society of Healthcare Publication Editors 2006 Bronze Award in the Editorial Division, Category: Best Signed Editorial.
- School of Medicine 2006 Teaching Award
- Judge, Michigan Family Medicine Research Day XXIX, Ann Arbor, MI, May 2006

Sharon Popp, PhD

- School of Medicine 2006 Teaching Award

John Porcerelli, PhD

- School of Medicine 2006 Teaching Award
- 2006 Fellow, Society for Personality Assessment

Thomas Roe, MD

- Appointed, Assistant Dean for Clinical Education, WSU School of Medicine

Maryjean Schenk

- Treasurer, Association of Departments of Family Medicine
- Steering Committee Member, Liaison Committee of Medical Education
- Interim Associate Dean for Academic and Student Affairs, School of Medicine

Kendra Schwartz, MD

- Promoted to Professor
- Appointed, Associate Chair for Research, DFMPHS
- School of Medicine 2006 Teaching Award
- Moderator, Session on Psychological Problems at the Second Biennial National Conference on Health Issues in the Arab-American Community, Dearborn, MI, May 2006
- Faculty mentor for Michael Kopek, recipient of Michigan Blue Cross Blue Shield Foundation Student Research Award
- Appointed, SOM Faculty Senate Research Development Committee
- Awarded, American Society of Healthcare Publication Editors 2006 Bronze Award in the Editorial Division, Category: Best Signed Editorial.

Rick Severson, PhD

- Appointed, Associate Chair for Program Development, DFMPHS
- Appointed, Director, MPH Program, DFMPHS

Jinping Xu, MD

- Judge, Resident Research Day, Oakwood Healthcare System, Dearborn, MI, April 19, 2006



Thomas Roe was appointed Assistant Dean for Clinical Education.



Kendra Schwartz was promoted to Professor and appointed Associate Chair for Research, feted by Maryjean Schenk.



Victoria Neale and Kendra Schwartz received the College Teaching Award, and also a Bronze Award for Best Editorial.



Richard Gallagher received the highest award from the American Association of Cancer Education.

“Kudos For A Job Well-Done”

Richard E. Gallagher, PhD received the Margaret Hay Edwards Medal, the highest honor of the American Association for Cancer Education (AACE). Dr. Gallagher met Margaret Hay Edwards in her role as the reviewer for his NCI cancer education grants, and he currently chairs the Committee G that reviews applications to NCI for cancer education projects. Dr. Gallagher was AACE President in 2000 – 2001, and currently serves as Deputy Editor of the *Journal of Cancer Education*.

Victoria Neale, PhD, MPH and Kendra Schwartz, MD, MSPH shared the Bronze Award for Best Signed Editorial from the American Society of Healthcare Publication Editors. The award was for their article: Neale AV, Schwartz KL, Bowman MA. Conflict of interest: Can we minimize its influence in the biomedical literature? *J Am Board Fam Pract*, 2005; 18 (5): 411- 413.

Maryjean Schenk, MD, MPH, MS, was honored by her selection as an inaugural member of the Wayne State University chapter of the Arnold P. Gold Humanism Honor Society. The society recognizes students and physician teachers who promote professionalism, compassion, and humanism in medicine. At the awards ceremony, Dr. Schenk was further honored as the first WSU recipient of the Leonard Tow Humanism in Medicine Faculty Award in recognition of the inspiration that she provides to medical students.

A special congratulations to the department pillars who “retired” in 2006: Bruce R. Deschere, MD, MBA, Joan C. Price, MBA, and Sharon Popp, PhD.

DFMPHS faculty were well represented at the 2006 School of Medicine Teaching Awards ceremony. Congratulations to Hikmet Jamil, MD, PhD, Tsveti Markova, MD, Victoria Neale, PhD, Sharon Popp, PhD, John Porcerelli, PhD, and Kendra Schwartz, MD.

The 2006 Department of Family Medicine Teaching Awards were presented to Juliann Binienda, PhD and Pierre Morris, MD.



Bruce Deschere left the department for the U.S. Navy.



Sharon Popp retired from the undergraduate medical education program.



Joan Price retired as department administrator.



Pierre Morris and Juliann Binienda received the 2006 DFMPHS Teaching Award.



The Family Medicine Center-Detroit continues to be a busy urban center where staff, residents and faculty physicians are committed to improving the health of the patients, their families and the community. As Director of Clinical Operations, Dr. Tsveti Markova is leading the site's reorganization to optimize patient care and focus on more efficient ways of providing quality services in a patient-centered, comprehensive and continuous manner. All employees are involved in decision-making through monthly interdisciplinary teams meetings and quality improvement projects initiated by residents, staff, and faculty. The FMC is an active participant in Community Network Program with a purpose of reducing disparities in cancer screening, diagnosis and treatment of underserved African American adults in metropolitan Detroit.



University Family Physicians - Detroit celebrated Halloween!

During 2006, University Family Physicians prepared for the 2007 implementation of Electronic Medical Records. Dr. Tsveti Markova, physician champion for the project, and Dr. Maryjean Schenk, UFP President, led an implementation team of faculty, the office manager, our information services specialist, and administrative and clinical staff. They reviewed office flow, policies and procedures that affect direct patient care, templates, chart documentation, IT and Internet requirements, and hardware needs.

The EMR will allow our Family Medical Centers to improve patient care quality and analyze clinical care outcomes. Further, physician and patient participation in clinical research will be enhanced, thereby contributing to the development of state-of-the-science care. Patient flow will be streamlined with a system for referrals and diagnostics. The EMR presents an opportunity for reducing errors, increasing reimbursement, and enabling more efficient patient-physician communication. Immediate access to patient information also improves the patient's direct involvement in his or her care and has been shown to improve patient compliance with management plans.





Tsveti Markova

Residency faculty physicians

Tsveti Markova, MD
Residency Program Director

Frederick Rosin, MD
Associate Program Director

Nejla Israel, MD
Assistant Program Director

Nehman Lauder, MD
Pierre Morris, MD
Kodavayour Nirmal, MD
Thomas Roe, MD

Contact information:
Carol Bartley
Residency Program Coordinator
313-340-4325
email: cbartley@med.wayne.edu

Felicia Blount
Secretary
313-340-4320
email: fblount@med.wayne.edu

The Family Medicine Residency continues to be a 5-year ACGME-accredited residency. As an integral part of the WSU School of Medicine, we emphasize strong academics and teaching, innovative curricula, and interest in practice-based research. New curricular elements introduced are the Mortality & Morbidity Conferences with Ethics, Reaction and Reflection (MMERR), resident Board preparation sessions, test-taking skills training, Objective Structured Clinical Exams using standardized patients, and training residents for teaching.

New Innovations

In 2006, we became a “paperless residency” through New Innovations, an online residency management software system that handles annual, monthly, and daily schedules, rotational goals and objectives, all evaluations, duty hours tracking, and access to our library of conference presentations of PowerPoint slides.

We continue to emphasize competency-based education. Faculty and residents have developed innovative methods teaching and evaluation methods. Our behavioral and clinical faculty teach Patient-Centered Clinical Care through web-based educational modules, mentoring, observation, and ongoing feedback on residents’ progress through learning contracts.

The residency has created an atmosphere of inquiry and evidence-based practice. This year we combined the faculty and resident journal club and evidence-based medicine training for an enhanced experience for all. All residents completed scholarship projects, working in teams

with faculty advisors and experienced research mentors. Residents learn to interpret medical literature, write case reports, conduct literature searches, and design research projects. In 2006, 3 cases and a clinical inquiry were published, each with a resident as a primary or a co-author. We were proud to win Sinai Grace Hospital and Michigan Family Medicine Research Day awards.

Comments on WSU/DMC Family Medicine Residency Experience

PGY-3 Resident

“Our program is one of the best in Michigan, not only because it is supervised at each step, but also because it has excellent teaching staff who prepare every resident for the real world. The variety of patients and severity of diseases make the learning exciting. Such experiences make us experts in common as well as unique pathology.”

PGY-1 Resident

“I am loving this residency program because of its absolutely wonderful people and great diversity, which is appreciated and celebrated. We receive just the right amounts of autonomy and guidance. Great morning rounds and teaching. A very structured and organized program with regular lectures and presentations and board question preparation. Preceptorship at the clinic is a big plus. I am learning every day and loving it.”

PGY-2 Resident

“A program truly committed to excellence! And family friendly, too.”



Residents and faculty enjoy a picnic outing.



2006 Family Medicine Residents

PGY I

Crawford, Tywanda, MD
 Khan, Aisha, MD
 Kunde, Sanket, MD
 M.F. Rahman, Sajitha, MD
 Pasha, Faraz, MD
 Qandil, Basil, MD
 Tobia, Ghassan, MD
 Udugampola, Vasantha, MD

PGY II

Abdul-Hussein, Amal, MD
 Akram, Arshia, MD
 Din, Shamoan, MD
 Fogla, Sumit, MD
 Jaiswal, Ashwani, MD
 Katychev, Andrei, MD
 Murdoch, William, MD
 Shah, Mitul, MD
 Shamsi, Sana, MD

PGY III

Amin, Saima, MD
 Naqvi, Fatima, MD
 Necsutu, Simona, MD
 Othayoth, Sunitha, MD
 Rai, Sherapartap, MD
 Raykova, Vania, MD
 Regis, Louella Margot, MD



Back row: Baldev Dhillon, Peter Nwaizuzu, Sam Bariana, John Mapili,
 Front row: Maryjean Schenk, Farah Mullah, Marina Gladson, Mahesh Raja, Tsveti Markova

2006 Family Medicine Residency Graduates

| | |
|----------------------------|--|
| Sam Singh Bariana, MD | Private Practice, Toronto, Canada |
| Baldev Singh Dhillon, MD | Private Practice, British Columbia, Canada |
| Marina Gladson, MD | Private Practice, Waukegan, Illinois |
| John Albert Mapili, MD | Private Practice, Brockton, Massachusetts |
| Farah Mullah, MD | Private Practice, Detroit, MI |
| Peter Chinedu Nwaizuzu, MD | VA Hospital, Dallas, Texas |
| Maheswari Raja, MD | UFP Royal Oak, MI |

2006 Residency Awards & Gifts

| | |
|---|-------------------------------------|
| The Claire Knighten-Ward Award: | Maheswari Raja, MD |
| The Belden Award: | Maheswari Raja, MD |
| Excellence in Family Medicine PGY-1: | Amal Abdul-Hussein, MD |
| Excellence in Family Medicine PGY-2: | Louella Margot Regis, MD |
| The Leland Award: | Maheswari Raja, MD |
| The Paul T. Werner Faculty of the Year Award: | Pierre Morris, MD |
| Teacher of the Year Award: | A.J. Telmos, MD & Anne-Mare Ice, MD |

FAMILY MEDICINE RESEARCH DAY – APRIL 12, 2006

| Place | Resident Name | Title |
|-----------|------------------------|---|
| 1st Place | Amal Abdul-Hussein, MD | "An Unusual Presentation of Adenoid Cystic Carcinoma of the Minor Salivary Glands" Mentors: Drs. Markova and Morris |
| 2nd Place | James Rosbolt, DO | "Industry as a Risk Factor for Prostate Cancer: A Case-Control Study in Wayne County, MI" Mentors: Drs. Graff and Severson |
| 3rd Place | John Mapili, MD | "Ankylosing Spondylitis Presenting as Rib Cage Pain" Mentor: Dr. Israel |
| 3rd Place | Baldev Dhillon, MD | "What are the Most Effective Therapies for Acute Sciatica?" Mentor: Dr. Markova |

SINAI-GRACE HOSPITAL RESEARCH DAY – APRIL 27, 2006

| Place | Resident Name | Title |
|-----------|------------------------|--|
| 2nd Place | Amal Abdul-Hussein, MD | "An Unusual Presentation of Adenoid Cystic Carcinoma of the Minor Salivary Glands" Mentors: Drs. Markova and Morris |

Innovation, Health and Productivity

*Bengt Arnetz, MD, PhD, MPH, MscEpi, CIME
Professor*

*Judith Arnetz, PhD, MPH
Associate Professor*

*James Blessman, MD, MPH
Assistant Professor*

*Hikmet Jamil, MD, PhD, FFOM.I
Professor*

*Roger Wabeke, MSc, MscChE, CIH, CHMM, PE
Adjunct Professor*

*Clairy Wiholm, PhD
Research Associate*

The Division of Occupational and Environmental Health (DOEH) has had a very productive year in research, teaching, and service. We defined four research areas in which we have the necessary skills and experience to contribute to Wayne State University's efforts to be a national and international research leader.

1) Innovation, Productivity and Sustained Health

We received start-up funding from the WSU VP for Research for a pilot study concerning sustained performance among high endurance athletes and art students attending WSU. The study is being carried out in collaboration with colleagues at Eugene Applebaum College of Pharmacy and Health Sciences. We also received a planning grant from the Swedish Royal Foundation to study low impact stressors and performance among first responders. In addition, we have completed a study of public health employees and how prepared they are at home when disaster strikes.

2) Wireless Technologies and Health

What are the health implications of the rapid spread of wireless technologies, including mobile/smart phones? We have just completed one of the world's largest controlled studies of possible effects from radio frequency

exposure from mobile phones on stress, cognitive function, reaction time, sleep, brain waves (EEG), hormones and inflammatory markers. We are also planning a multidisciplinary study of how to apply wireless technologies to enhance our understanding of how psychosocial stressors contribute to health disparities.

3) Work and Service Quality

Our third area of research is to better understand the inter-relationship between the working environment and the caring/service environment in producing the best possible performance and quality, benefiting both customers and employees. We are currently analyzing data from a study looking at the caring process on health care staff and patient outcomes.

4) Worker Distraction

Worker distraction is a significant occupational health challenge. Most studies of distraction focus on the effects from fatigue and sleep deficit. However, there are a range of other potential contributors as well, including multi-tasking, technology, and ergonomic design. We are in the process of launching research to better define risk factors for distraction, with the ultimate goal to prevent or decrease its occurrence.

In addition, we have studied the physical and mental consequences of the Iraq war, not in allied soldiers, but in Iraqi soldiers. We hope the study will contribute to a better understanding of risk factors for war-related health consequences such as depression, post-traumatic stress disorder (PTSD), and low energy states.

We have expanded our course in Environmental and Occupational Health to include not only family medicine residents, but also practicing physicians. We will also offer a Safety, Health and Environmental (SHE) program to Michigan industries. This audit program will ensure optimal return on investment in the areas of safety, health and environment.

*James Blessman, Andrew Agelink, Hikmet Jamil, Bengt Arnetz, Todd Lucas, Roger Wabeke (Standing)
Judith Arnetz, Dana Nevedal, Clairy Wiholm (Seated)*



**Bengt Arnetz, MD, PhD and
Clairy Wiholm, PhD: “Health
Effects from Mobile Phones”**

An international study looking at the possible health effects from radio frequency (RF) emitted from cellular phones. Participants were exposed to either no RF (sham) or 884 MHz radiofrequency (typical GSM signal from cellular phones) during a 3 hour laboratory session followed by a night in a sleep laboratory. During conditions of RF exposure, participants’ reaction time improved, as did some cognitive functions. However, participants’ sleep quality was affected, resulting in less deep sleep (stage 3 and 4). Serum levels of the stress hormone cortisol also increased. Study participants were not able to accurately differentiate sham from true RF exposure. This multidisciplinary study suggests that there are specific effects associated with exposure to communication signals from mobile phones mostly related to the pre-frontal area of the brain and the limbic system.

**Virginia Miller, DrPH: “Planning
for a Center for Innovation
in Services and Intervention
Research (CISIR) in Michigan”**

is funded by the Flinn Foundation to improve the delivery of mental and behavioral health services in Michigan by developing a center to evaluate the translation of behavioral sciences into the delivery of community mental health services. Partners in the center will include key stakeholders from the research and service communities in Michigan. The immediate goals of the planning phase of the project: 1) develop a framework for the center; 2) identify key partners in the service and research communities who will support the effort ; 3) conduct a preliminary descriptive study of the prevalence of severe mental illness and co-morbid conditions including substance abuse and/or medical illnesses; 4) identify gaps in current data reporting and management; and 5) prepare a prepare a proposal for an NIMH submission.

Victoria Neale, PhD, MPH: “Research Culture of Practice-based Research Networks” is a new R01 grant funded from AHRQ and the U.S. Office of Research Integrity to study the research culture of practice-based research networks. The project goal is to develop a Research Professionalism Check-list for PBRNs to self-assess their current research culture. **Kendra Schwartz** and **William Tierney** are Co-Investigators. The project will involve several waves of data collection from PBRN leaders and staff to develop a psychometrically-sound instrument that addresses areas of deficiency in the research integrity knowledge base identified by the Institute of Medicine. The study design employs an established methodology using qualitative and quantitative approaches to establish the content validity of the PBRN Research Professionalism Check-list.



Bengt Arnetz had 2 new grants funded.



Victoria Neale received an R01 grant.



Jenny Miller is studying fragile families and child well-being.



Clairy Wiholm is a post-doctoral fellow in the Division of Occupational and Environmental Health.



Maryjean Schenk and Patrick Bridge partnered to increase physicians in rural areas.

Maryjean Schenk, MD and Patrick Bridge, PhD: “WSU Rural Medicine Project”

Funded by the Blue Cross Blue Shield Foundation of Michigan, the WSU Rural Medicine Project is designed to select students from small town/rural backgrounds and provide them with clinical learning experiences in small town/rural areas. A newly-formed Rural Medicine Interest Group, summer externships, family medicine clerkship, and fourth year electives are now available in small town/rural areas of Michigan. The objective of this project is to increase the number of Wayne State University School of Medicine graduates who will elect to practice in small town/rural Michigan Communities. **David Luoma, MD** of the Upper Peninsula Health Education Corporation is a partner in this initiative. **Marsha Atherton**, WSU Year 4 medical student, is the project coordinator.



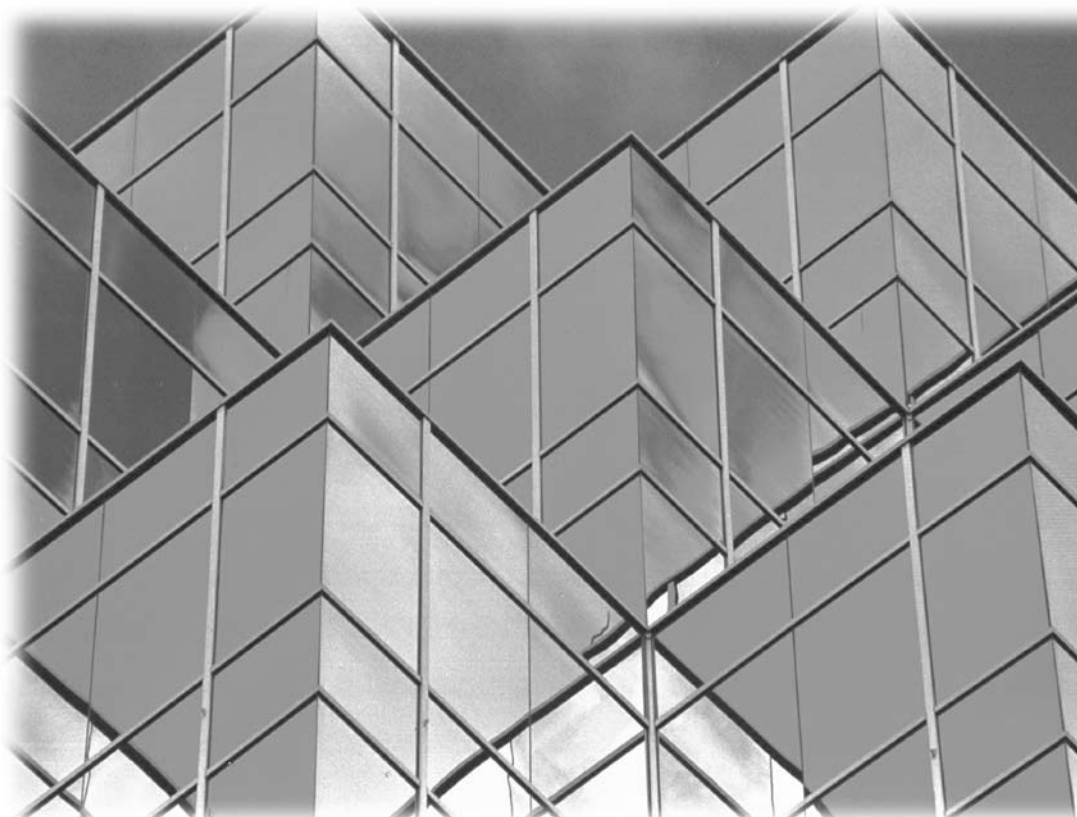
Marsha Atherton, Year IV medical student, is the coordinator of the rural medicine project.

Rosalie Young, PhD: “Reducing Risk of Breast Cancer Recurrence”

is a two-year project funded by the Susan B. Komen Foundation. The purpose of the study is to determine if cancer survivors can adhere to an individualized diet and physical activity plan that may reduce the risk of cancer recurrence and death. Participants will attend bi-weekly classes for four months, then receive eight months of telephone counseling on food, physical activity, and goal achievement from a nutritionist. After one year, progress and goal achievement will be measured. This study represents a partnership of academia and the community. Study participants were referred from local community organizations that serve African Americans and cancer survivors.



Rosalie Young and Joann Mirasolo, study dietician.





Albrecht T (PI), Bridge PD, Gallagher R, Markova TM (Co-Is)

“Community Networks Program for Older Underserved African American Adults”
National Cancer Institute
6/2005 – 5/2008; total cost \$2,580,746

Albrecht TL (PI), Penner LA (Co-I)

“Parental Role in Pediatric Cancer Pain and Survivorship”
National Cancer Institute
9/2003 – 8/2006; total cost \$866,105

Albrecht TL (PI), Harper FWK (Co-I)

“Biopsychosocial Processes and Treatment Decision Making”
National Cancer Institute
9/2004 – 9/2007; total cost \$220,500

Albrecht TL (PI)

“Cancer Information Service Midwest Partnership Program”
National Cancer Institute
1/2005 – 1/2010; total cost \$5,000,000

Albrecht TL (PI), Penner L (Co-I)

“Improving Understanding of Racial/Ethnic Differences in Clinical Treatment of Prostate Cancer in Detroit”
National Cancer Institute
6/2006 – 6/2007; total cost \$75,000

Arnetz BB (PI)

“Low Impact Stress and Health among First Responders”
The Royal Foundation of Sweden (Kungafonden)
12/2006 – 11/2007; total cost \$75,885

Arnetz BB (PI), Arnetz J (Co-I)

“Advanced Studies of Healthy Work Organizations”
Skandia Group, Sweden
8/2005 – 8/2006; total cost \$446,552

Arnetz BB (PI), Wiholm C (Co-I)

“Health Effects from Mobile Phones”
Mobile Manufacturer Forum MMF
1/2006 – 11/2006; total cost \$427,120

Arnetz JE (PI)

“The Involved Patient: Implications for Treatment, Outcome and Secondary Prevention of Myocardial Infarction”
Swedish Heart-Lung Foundation
2005 – 2006; total cost \$43,000

Arnetz JE (PI)

“Questionnaire Study among Patients Attending Center for Environmental Illness and Stress-related Disorders (CEOS)”
CEOS, Uppsala University Hospital and Uppsala University, Sweden
6/2006 – 7/2006; total cost \$3,500

Banerjee M (PI), Schwartz KL (Co-I)

“Racial Disparities in Treatment for Prostate Cancer”
Lance Armstrong Foundation
2006 – 2008; total cost \$247,500

Brandon T (PI), Albrecht TL (Consultant)

“Preventing Smoking Relapse During Pregnancy and Beyond”
National Cancer Institute
9/2002 – 8/2006; total cost \$1,225,000

Bridge PD (PI)

“Development of a Prostate Health Awareness Curriculum for the Hispanic Community”
Center for Disease Control and the Michigan Department of Health
10/2005 – 9/2006; total cost \$65,400

Bridge PD (PI), Schenk M, (Co-I)

“Evaluating Strategies to Increase and Monitor Physician Practice in Underserved Rural Communities”
Blue Cross Blue Shield of Michigan Foundation
9/2006 – 8/2008; total cost \$100,000

Campbell-Voytal K (PI)

“Detroit Active for Life: Increasing Physical Activity in Sedentary Urban African American Seniors”
Greater Detroit Area Health Council – Robert Wood Johnson Foundation
2003 – 2007; total costs \$95,000

Campbell-Voytal K (PI), Gutai J (Co-I)

“Obesity: Risk and Primary Prevention of Type 2 Diabetes in Minority Medicaid/Medicaid Eligible Youth”
Michigan Department of Community Health
2005 – 2007; total cost \$415,834

Eggly S (PI), Harper FWK (Co-I)

“Question Asking by Patients and Companions During Discussions of Clinical Trials in Oncology Interactions: An Analysis of Information Seeking”
Karmanos Cancer Institute: Strategic Research Initiative Grant
4/2006 – 4/2007; total cost \$15,000

Flack J (PI), Severson R (Co-I)

“Center for African American Urban Health”
National Institute of Environmental Health Sciences
9/2003 – 5/2008; total cost \$5,946,924

González H (PI)

“Vascular Depression and Function in Older Latinos”
National Institute of Mental Health
4/2003 – 3/2008; total cost \$834,520

Graff JJ (PI)

“Assessing Smoking and Drinking in the Development of Tongue Cancer and Evaluation of Quality of Life Following Different Treatment Options – A Feasibility Study”
National Cancer Institute
10/2004 – 9/2006; total cost \$209,075

Gutai J (PI)

“Morris J. Hood Jr. Comprehensive Diabetes Programs”
Michigan Department of Community Health
2005 – 2007; total cost \$800,000

Harper FWK (PI)

“Quality of Life in Prostate Cancer Patients in a Clinical Trial of 17-AAG”
Fund for Cancer Research, Farmington Hills, MI
3/2005 – 3/2007; total cost: \$10,000

Harper FWK (PI), Albrecht TL (Co-I)

“The Use of Real Time Patient Data to Define ‘Clinical Benefit’ in Phase I Clinical Trials.”
Kmanos Cancer Institute: Strategic Research Initiative Grant
3/2006 – 12/2006; total cost \$25,000

Jamil H (PI)

“Hepatitis C Health Assessment Among Arab/Chaldean-American Community”
Roche Inc.
12/2005 – 12/2007; total cost \$86,000

Jackson J, Lichtenberg P (Co-PIs), L Penner (Co-I)

“Michigan Center for Urban African American Aging Research”
National Institute on Aging and National Institute of Nursing Research
2003 – 2006; total cost \$3,100,000

Kato I (PI), Neale AV (Co-I)

“Does Use of Alternative Medicine Delay Treatment of Health and Neck Cancer?”
National Cancer Institute
9/2003 – 9/2006; total cost \$228,028

Kato I (PI), Severson R (Co-I)

“Genetic Susceptibility to Infection-related Cancer”
National Cancer Institute
2/2003 – 1/2006; total cost \$609,485

Kato I (PI), R Severson (Co-I)

“Luminal Lipid Exposure, Genetics and Colon Cancer Risk”
National Cancer Institute
8/2002 – 7/2007; total cost \$2,540,611



Katz S (PI), Graff JJ (Co-I)
 “Health System Factors and Patient Outcomes in Breast Cancer”
 National Cancer Institute
 9/2006 – 8/2010; total cost \$884,215

Loscalzo M (PI), Harper FWK (Co-I)
 “American Psychosocial Oncology Society Annual Conference”
 NIH Conference Grant
 10/2005 – 8/2006; total cost \$26,300

Miller V (PI), Ager J (Co-I)
 “Pediatric Brain Tumors: Disabilities and Family Issues”
 Brent Research Fund
 6/2005 – 9/2007; total cost \$14,963

Miller V (PI)
 “IVF Programs and Embryo Storage: Practices and Policies in the United States”
 Barber Fund for Interdisciplinary Legal Research
 10/2005 – 9/30/07; total cost \$11,000

Miller V (PI)
 “NICHD Fragile Families and Child Well-being Study: Detroit”
 OB/GYN Sreer Fund
 1/2006 – 12/2006; total cost \$738

Neale AV (PI), Schwartz KL (Co-I)
 “Research Culture of Practice-based Research Networks”
 Agency for Health Research & Quality
 8/2006 – 7/2008; total cost \$445,083

Neale AV (Deputy Editor)
 “*J Am Board Fam Med* Editorial Office Management”
 American Board of Family Medicine
 2006; total cost \$115,489

Neale AV (PI)
 “Correcting the Literature After Scientific Misconduct”
 US Office of Research Integrity
 9/2002 – 8/2006; total cost \$298,000

Penner LA (PI), Cline RJW, Markova T, Porcerelli J, Albrecht TL (Co-Is)
 “Using Doctor-Patient Teams to Reduce Health Disparities”
 National Institute of Child Health and Human Development
 4/2006 – 3/2008; total cost \$413,875

Philip P (PI), Penner LA (Co-I)
 “Phase II Trial of Bevacizumab, Docetaxel, and Oxaliplatin in Gastric and Gastroesophageal Junction Cancer”
 Genentech and Sanofi-Aventis
 12/2004 – 12/2008; total cost \$334,650

Pollak K (PI), Albrecht TL (Consultant)
 “Obesity as a Barrier to Physician-Patient Communication”
 National Cancer Institute
 2/2006 – 1/2011; total cost \$1,087,671

Porcerelli J (PI), Markova T (Co-I)
 “The Health Effects of Abusive-Partner Relationships on African American Women and Children Attending Primary Care”
 Michigan Department of Community Health
 5/2005 – 4/2008; total cost \$735,000

Ruckdeschel J (PI), Albrecht TL (Co-I)
 “Cancer Center Support Grant”
 National Cancer Institute
 12/2004 – 11/2009; total cost \$2,500,000

Ruckdeschel J (PI), Graff JJ, Cline RJW (Co-Is)
 “Cancer Control Earmarks - National Center for Vermiculite and Asbestos-related Cancers”
 Centers for Disease Control and Prevention
 6/2005 – 6/2006; total cost \$992,000

Ruckdeschel J (PI), Graff JJ, Cline RJW (Co-Is)
 “National Center for Vermiculite and Asbestos-related Cancers”
 Environmental Protection Agency
 7/2006 – 6/2008; total cost \$967,200

Schenk M (PI), Bridge PD, Roe T (Co-Is)
 “Encouraging Physicians to Practice in Underserved Rural and Urban Michigan Communities”
 Blue Cross Blue Shield of Michigan Foundation
 9/2006 – 8/2005; total cost \$225,000

Schenk M (PI), Markova T, Neale AV, Penner LA, Schwartz K (Co-Is)
 “Building a Clinical Encounter Research Program to Reduce Health Disparities”
 US DHHS: HRSA Bureau of Health Professions
 9/2005 – 8/2008; total cost: \$965,970

Schwartz AG (PI), Schwartz KL, Graff JJ (Co-Is)
 “Surveillance, Epidemiology and End Results (SEER) Program – Metropolitan Detroit Cancer Surveillance System”
 National Cancer Institute
 8/2003 – 7/2010; total cost \$30,262,700

Schwartz KL (PI), Popp S, Coumarbatch J (Co-Is)
 “Brief Intervention for Healthy Food Choices in Primary Care Practices”
 Michigan Department of Community Health Disease and Stroke Project
 12/2006 – 12/2007; total cost \$74,500

Schwartz K (PI)
 “Study Centers for Case-Control Study of Renal Cell Cancer Among Caucasians and African Americans”
 National Cancer Institute
 2001 – 2007; total cost \$2,400,000

Tancer M (PI), Miller V (Co-I)
 “Planning for a Center for Innovation in Services and Intervention Research (CISIR) in Michigan”
 Flinn Foundation
 12/2006 – 11/2007; total cost \$60,000

Taub J (PI), Severson R (Co-I)
 “Differences in Etiology of Acute Lymphoblastic Leukemia between Caucasian and African American Children”
 Wayne State University President’s Research Enhancement Program
 4/2004 – 3/2006; total cost \$238,151

Tulsky J (PI), Albrecht TL (Consultant)
 “Patient-Oncologist Communication”
 National Cancer Institute
 9/2005 – 8/2009; total cost \$427,464

Xu J (PI), Schwartz K, Penner LA, Janisse J, Eggly S, Bartoces M (Co-Is)
 “Racial Differences in Prostate Cancer Treatment Decision Making”
 American Cancer Society
 7/2006 – 6/2011; total cost \$729,000

Velie E (PI), Severson R (Co-I)
 “Energy Balance and Breast Cancer in Black and White Women”
 National Cancer Institute
 7/2002 – 6/2007; total cost \$541,125

White S (PI), Popp S (Co-I)
 “Bioterrorism Training and Curriculum Development Program”
 US DHHS: HRSA Bureau of Health Professions
 9/2005 – 12/2006; total cost \$200,000

Young R (PI)
 “Reducing Risk of Breast Cancer Recurrence in African American Women”
 Susan B. Komen Breast Cancer Foundation
 5/2006 – 4/2008; total cost \$250,000



Transdisciplinary Studies of Surgical Oncology Trial Accrual

- Recognizing an opportunity to focus on the growing problem of low accrual to cancer surgical trials, the authors organized a multidisciplinary network to organize working groups to study the problem.
- The overarching objective that guided the methodological developments of this network was to apply state-of-the-science methodologies and analytical strategies to examine the bio-behavioral and interpersonal factors that facilitate or impede patients' treatment decision-making.
- In this brief report, the authors describe the objectives of their multidisciplinary network and their progress to date.

Albrecht TL, Krueger H, Ruckdeschel JC, Mendez J, **Harper FWK**. Transdisciplinary studies of surgical oncology trial accrual: An NIH/NCI Roadmap-affiliated project update. *Cancer*. 2006; 107: 171-174.

Distress During Pediatric Cancer Treatments

- Children with cancer often consider treatment procedures more traumatic and painful than cancer itself.
- Using the concept of definition of the situation from a symbolic interactionism theoretical framework, this study developed a typology of parent communication patterns and tested relationships between those patterns and children's responses to potentially-painful treatment procedures.
- Results identified four parent communication patterns during potentially painful procedures and indicated that invalidated children experienced significantly more pain and distress than children whose parents used other communication patterns.

Cline RJW, Harper FWK, Penner LA, Peterson AM, Taub JW, **Albrecht TL**. Parent communication and child pain and distress during painful pediatric cancer treatments. *Social Science and Medicine*. 2006; 63: 883-898.

Hypercholesterolemia in African Americans

- Physician focus groups indicated interest in training and resources to better help patients adopt diet and exercise regimens specific to their general and health literacy and their access to healthy foods.
- Patient focus groups expressed the desire for physicians to tailor advice about diet and behavior change to be specific to their context and they want physician help in setting realistic goals.
- A patient-centered counseling approach may improve adherence to recommended therapeutic lifestyle changes and, thus, clinical outcomes.

Dailey R, Schwartz KL, Binienda J, Moonman J, **Neale, AV**. Barriers and facilitators of lifestyle changes for the treatment of hypercholesterolemia in African American primary care patients: A MetroNet study. *Journal of the National Medical Association*. 2006; 98 (12): 1895-1903.

Antidepressant Use Among Older Mexican Americans

- Older Mexican Americans have one of the highest rates of depression when compared to Whites & other ethnic groups.
- In a community-dwelling sample of older Mexican Americans, we found that very few (7.1%) had been prescribed an antidepressant.
- Of those, fewer older Mexican Americans (3.9%) were prescribed antidepressant drugs concordant with geropsychiatric guidelines.

González HM, Hinton L, Haan MN, Ortiz TO. Antidepressant use among older Mexican Americans. *American Journal of Geriatric Psychiatry*. 2006; 14 (1):79-83.





Health assessment of Iraqi Immigrants

- This prospective interview project examined the self-reported medical complaints of Iraqi-American who immigrated to U.S. and reside in Michigan.
- Comparing Iraqi-Americans immigrants arriving in the U.S. across three waves of immigration (before 1980; 1980-1991; and after 1991) serves as a useful strategy for determining how the groups are similar and different on a variety of reported health measures.
- The symptoms reported by the immigrants clustered in the areas of fatigue, musculoskeletal, and the central and peripheral nervous systems. Similar symptom patterns were seen in the three groups.

Jamil H, Nassar-McMillan S, Lambert R, Hammad A. An epidemiological study: Health assessment of three waves of Iraqi immigrants. *Journal of Immigrant & Refugee Studies.* 2006; 4 (4): 69-73.

Rare Case of Male Breast Cancer

- Male breast cancer represents 1% of all breast cancer nationally. This case presentation describes a healthy 51-year-old African American man who presented with a 3-day history of arm pain.
- On physician examination the patient was found to have a mass in his left breast as an incidental finding. The differential diagnosis includes osteoarthritis, tendonitis, bursitis, and metastatic bone cancer. A biopsy confirmed the diagnosis of breast cancer.
- The patient received chemotherapy and radiation therapy and is alive 3 1/2 years after his diagnosis. Overall 5 year survival rate for this stage IV cancer is 0-25%.

Morris P, Markova T, Roe T. Bone pain and a worrisome family history. *Patient Care.* 2006; 40 (2): 65-66.

Peer Reviewing for Biomedical Journals

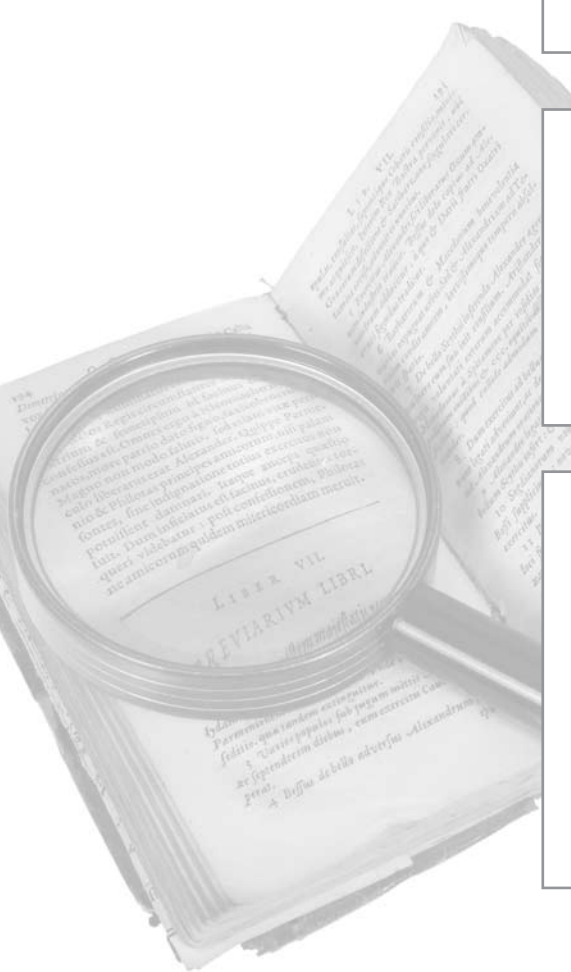
- Peer reviewing for journals is most often learned “on the job” without formal training.
- We provide an overview of the journal peer review process and outline the ethics of peer review.
- The qualities of a good peer review and strategies for being a valued peer reviewer are discussed.

Neale AV, Schwartz KL, Bowman MA. Peer reviewing for the “Journal of the American Board of Family Medicine”: What does it take? *Journal of the American Board of Family Medicine.* 2006; 19 (6):643-647.

Symptoms and Emotional Abuse

- In this cross-sectional, multicenter study of victimization, 47 adult women meeting criteria for emotional abuse (past year) and no physical abuse were matched demographically with 47 non-abused women, and compared on physical and emotional symptoms, alcohol use problems, and social support problems.
- Emotionally abused women reported more physical and psychological symptoms than non-abused controls and more social support problems than non-abused controls.
- This study supports literature that demonstrates an association between emotional abuse and physical and emotional symptoms in women who are currently suffering emotional abuse. We recommend that physicians inquire about emotional abuse in female patients with multiple psychosocial and physical symptoms.

Porcerelli JH, West P, **Binienda J.** Physical and psychological symptoms in emotionally abused and non-abused women. *Journal of the American Board of Family Medicine.* 2006; 19 (2):201-204.





Organizational and Learning Environments in Ambulatory Clinics

- Investigations of teaching quality in ambulatory clinics have generally focused on faculty and medical student perspectives. We surveyed faculty, residents and nursing staff to explore clinic employees' perspectives on organizational and learning environments and quality of teaching.
- Opinions about availability of structured learning opportunities for residents explained the most variance (35.2%) in the overall assessment of teaching quality. The addition of job satisfaction brought the explained variance up to 46.4%. Improvement in residents' In-training Examination scores corresponded with higher learning and organizational environment assessment scores.
- Learning opportunities should be structured so that residents are oriented to the ambulatory clinic, have their knowledge assessed regularly, are helped to meet individual goals, and are given appropriate levels of responsibility. Prioritizing efforts to improve job satisfaction for all employees is important because of its potential to influence quality of teaching and learning.

Roth IM, Severson RK, Probst J, Monsur J, Markova T, Kushner S, Schenk M. Exploring physician and staff perceptions of the learning environment in ambulatory residency clinics. *Family Medicine*. 2006; 38 (3):177-184.

Standardized Offer of Influenza Vaccination May Reduce Health Disparities

- We tested the hypothesis that a standardized offer of influenza vaccination to elderly primary care patients would result in similar proportions of African-American and white patients accepting vaccine.
- In 7 MetroNet practices during the 2003 influenza vaccination season, medical assistants offered influenza immunization to all eligible elderly patients.
- Vaccination acceptance differed little between African-American and white elderly patients. Using medical assistants to identify and offer influenza vaccine is easily accomplished in primary care offices and has the potential to eliminate racial disparities in influenza vaccination.

Schwartz KL, Neale AV, Northrup J, Monsur JM, et al. Racial similarities in response to standardized offer of influenza vaccination: A MetroNet study. *Journal of General Internal Medicine*. 2006; 6 (21): 346-351.

Stress Management and Musculoskeletal Disorders

- Stress is a major risk factor for musculoskeletal disorders affecting a large proportion of the workforce, yet little is known about the causal mechanism linking stress to musculoskeletal disorders.
- We evaluated the possible effects from various forms of stress management on musculoskeletal disorders in advanced knowledge workers.
- Stress management decreased symptoms, possibly by means of improving circulating levels of the anabolic anti-stress hormone testosterone.

Wiholm C, Arnetz BB. Stress management and musculoskeletal disorders in knowledge workers: The possible mediating effect of stress hormones. *Advances in Physiotherapy* 2006; 8: 5-14.





Nineteen DFMPHS members first-authored a peer reviewed publication in 2006. This is an increase from fifteen in 2005, eleven in 2004, and seven in 2003

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Wang SS, Slager S, Brennan P, Becker N, Bernstein L, Cerhan JR, Chiu BCH, Cocco PL, Costantini AS, Cozen W, Dal Maso L, Davis S, De Sanjose S, Foretova L, Franceschi S, Holly EA, La Vecchia C, Lan EZ, Maynadie M, Mensah E, Roman E, **Severson RK,** et al. Family history of hematopoietic malignancies and risk of non-Hodgkin lymphoma (NHL): a pooled analysis of 10,214 cases and 11,906 controls from the InterLymph Consortium. *Blood.* (In press).

Wiholm C, Arnetz BB. Stress management and musculoskeletal disorders in knowledge workers: The possible mediating effect of stress hormones. *Advances in Physiotherapy* 2006;8:5-14.

Wilcox S, Dowda M, Griffin S, Rheaume C, Ory M, Leviton L, King A, Dunn A, Buchner D, Bazzarre T, Estabrooks P, **Campbell-Voytal K,** et al. Results of the first year of Active for Life: Translation of two evidence-based physical activity programs for older adults into community settings. *American Journal of Public Health* 2006;96:1201-1209.

Williams DR, **González HM,** et al. Prevalence and distribution of major depressive disorder among African Americans, Caribbean Blacks and Non-Hispanic Whites *Archives of General Psychiatry.* (In press).

Williams DR, Haile R, **González HM,** et al. The mental health of Black Caribbean immigrants: Results from the national survey of American life. *American Journal of Public Health.* (In press).

Williams LK, Joseph CL, Peterson EL, Moon C, Xi H, Krajenta R, Johnson R, Wells K, **Booza JC,** et al. "Race-ethnicity, crime, and other factors associated with adherence to inhaled corticosteroids." *The Journal of Allergy and Clinical Immunology.* (In press).

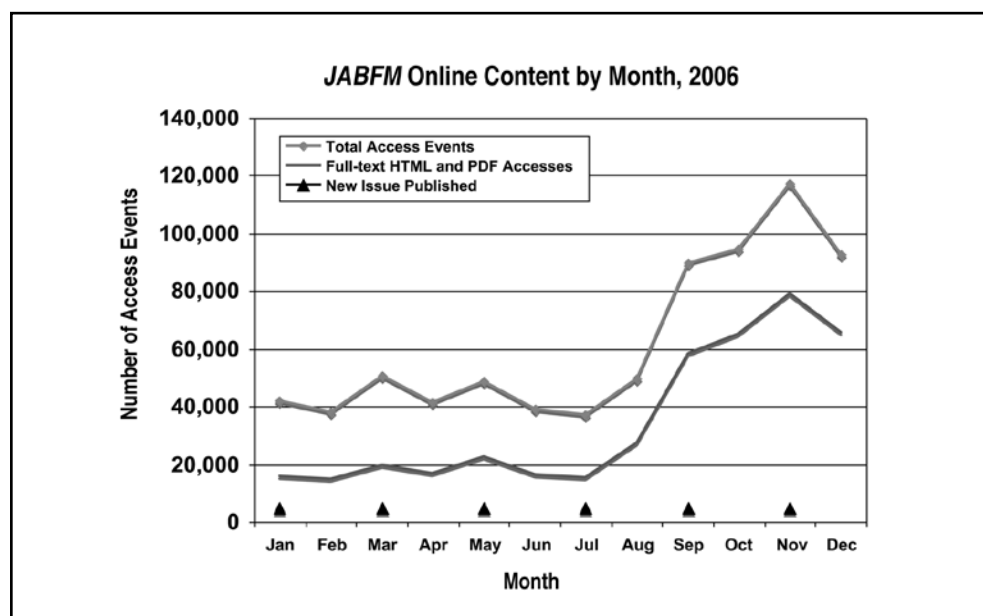
Ygge BM, Lindholm C, **Arnetz JE.** Hospital staff perceptions of parental involvement in paediatric hospital care. *Journal of Advanced Nursing* 2006;53(3):534-542.

JABFM Editorial Activities

The WSU DFMPHS continues to host the editorial offices of the *Journal of the American Board of Family Medicine*, where **Victoria Neale, PhD** is Deputy Editor, **Kendra Schwartz, MD** is Associate Editor and **Maryjean Schenk, MD** is a member of the Editorial Board. The *JABFM* had a very successful year, receiving its first “Journal Impact Factor” from the Institute of Scientific Information’s *Journal Citation Reports (JCR)*. The *JABFM*’s 2005 impact factor was 1.636. With this impact factor, the *JABFM* was ranked 31 in the *JCR* category of “Medicine, General and Internal”, and above the ranking of 5 other prominent family medicine journals.

JABFM Online (www.jabfm.org) continues to attract a growing number of readers. The figure illustrates that successful requests for content (home page, table of content, abstract, full-text htm, and pdf counts) reached an all time high of 117,449 following the release of the Nov/Dec 2006 volume 19, number 6 issue.

Figure 1. Data source: “Year-to-Date Usage Summary” for the *JABFM*, HighWire Press.



- Abstract reviewer, submissions for the 2006 “Critical Issues in eHealth Research: Toward Quality Patient Centered Care” Conference, National Cancer Institute, Washington, DC, June 2006
- Reviewer, Strategic Research Initiative Grant Program Applications, Karmanos Cancer Institute, November 2005; January 2006
- Member, Grant Review Committee, Komen Detroit Race for the Cure Applications for funding for breast health and/or breast cancer projects, 2003-present

Judith Arnetz, PhD

- Peer Reviewer: *International Journal for Quality in Health Care*, *International Journal of Nursing Studies*, *Acta Paediatrica*, *Journal of Advanced Nursing*

Faculty Peer Review Activities

Terrance L. Albrecht, PhD

- Permanent Member, Community Influences on Health Behavior Study Section, National Institutes of Health Center for Scientific Review ZRG1 HOP-A 02 (Stand-in Chair, 2005-06).
- Ad Hoc Member, National Cancer Institute Cancer Center Support Grant P30 Review and Site Visit, Moores Cancer Center, University of California, San Diego, September 2005.
- Peer Reviewer: *Social Science and Medicine*, *Psycho-Oncology*, *Annals of Oncology*.
- Reviewer, Special Emphasis Panel/Scientific Review Group 2006/08 ZMH1 ERB-G(C3) (S) Junior Faculty Loan Repayment Program, 3/28/06. NIH/National Institute of Mental Health.

Juliann Binienda, PhD

- Peer Reviewer: *Journal of the American Board of Family Medicine*, *Patient Education and Counseling*

Patrick Bridge, PhD

- Peer Reviewer: *Journal of Cancer Education*
- Appointed, Editorial Board of the *Journal of Cancer Education*

Rebecca J. W. Cline, PhD

- Member, Review Panel, PAE 04-010, National Institute of Mental Health, Behavioral Science Track Award for Rapid Transition (B/START) program, January 2006, December 2006
- Member, Review Panel, ZRG1 HOP-T 90 S, Health of the Population Integrated Review Group, National Institutes of Health, Community Health Promotion R21, R15, and R03s, June 2006

- Associate Editor, *Health Communication*
- Associate Editor, *Journal of Applied Communication Research*
- Peer Reviewer, *Health Education Research, Social Science and Medicine, Cancer, Journal of Health Communication.*
- Abstract Reviewer, American Public Health Association

Richard Gallagher, PhD

- Deputy Editor-In-Chief, *Journal of Cancer Education*
- Chairperson of the of the National Cancer Institute Sub-Committee G: Education, 2006-2007.
- Member of the Review Board of the Virtual Cancer Medicine Continuing Medical Education Program, Australia
- Peer Reviewer: *Palliative Care*

Hector González, PhD

- Peer Reviewer: *Journal of Geriatric Psychiatry and Neurology, Journal of the International Neuropsychological Society*

John Graff, PhD

- Peer Reviewer: *Journal of Occupational and Environmental Medicine, American Journal of Epidemiology*
- Reviewer for National Institute of Occupational Safety and Health (NIOSH) Pilot Project Proposals

Felicity Harper, PhD

- Peer reviewer: *Psycho-Oncology*
- Chair, Conference Poster Judging Committee, *American Psychosocial Oncology Society 3rd Annual Meeting*
- Member, Executive Planning Committee for 4th Annual American Psychosocial Oncology Society Meeting (January 2007)
- Member, Cancer Special Interest Group (SIG) Steering Committee, Society of Behavioral Medicine

Hikmet Jamil, MD

- Member, International Advisory Board, *Basrah Journal of Surgery, Basrah-Iraq*
- Consultant, International Board, *The Yemeni Journal For Medical Sciences, The University of Science and Technology, The College of Medical Sciences*
- Member, ACC Health Newsletter Committee

- Member, International Advisory Board, *Iraqi Medical Journal, Iraqi Medical Association, Baghdad, Iraq*

Tsveti Markova, MD

- Peer Reviewer: *Journal of Family Practice, Annals of Family Medicine, Journal of the American Board of Family Medicine*

Virginia Miller, DrPH

- Peer Reviewer: *American Journal of Infection Control*

Anne Victoria Neale, PhD

- Deputy Editor, *Journal of the American Board of Family Medicine*
- Associate Editor, *Family Practice*
- Peer reviewer: *Teaching and Learning in Medicine, Computer Methods and Programs in Biomedicine, BMJ*

Louis Penner, PhD

- Editorial Board: *Journal of Personality and Social Psychology*
- Editorial Board: *Journal of Social Issues*
- Editorial Board: *Social Issues and Policy Review*
- Peer Reviewer: *Social Science and Medicine, Journal of Applied Social Psychology, Journal of Experimental Social Psychology, Human Performance, Family Practice, ASAP*

Sharon Popp, PhD

- Peer Reviewer: *Medical Education Online*

John Porcerelli, PhD

- Peer Reviewer: *Journal of Personality Assessment, Journal of Social & Clinical Psychology, Archives of General Psychiatry, Journal of the American Board of Family Medicine*

Linda Roth, PhD

- Peer Reviewer: *Academic Medicine, Family Practice*

Kendra Schwartz, MD

- Associate Editor: *Journal of American Board of Family Medicine*
- Peer Reviewer: *American Journal of Public Health, Cancer Detection and Prevention*
- Editorial Board Member: *Journal of Family Practice*

Rick Severson, PhD

- Editorial Advisory Board: *Journal of the National Cancer Institute*
- Peer reviewer: *Journal of the National Cancer Institute, Cancer Epidemiology, Biomarkers & Prevention, Journal of the American Board of Family Medicine, Investigative Ophthalmology and Visual Science*

Jinping Xu, MD

- Peer Reviewer: *Annals of Family Medicine*

Rosalie Young, PhD

- Peer Reviewer: *Journal of Health Care for Poor and Underprivileged, Journal of the American Board of Family Medicine*





Jira Coumarbatch

Change Leading to Growth

This year the DFMPHS Undergraduate Medical Education program was marked with change introducing new individuals, approaches, and activities.

Individuals

Jira Coumarbatch, MD is the new family medicine clerkship director. He is an alumnus of Wayne State University, the WSU School of Medicine (SOM) and Family Medicine residency program. **Thomas Roe, MD**, former clerkship director, was promoted to Assistant Dean of Clinical Education for the School of Medicine. **Dr. Patrick Bridge** serves as Assistant Dean for Evaluation, Student Information and Education Research for the School of Medicine. **Sharon Popp, PhD**, retired from the pre-doctoral education program to focus her energies on fundraising for the planned Education Commons building. **Juliann Binienda, PhD** increased her time with the division, and **Lisa Blackwell** continues to serve as program coordinator.

WSU Medical Students

- **Ruzica Brstina**, WSU SOM 2006 graduate, received the WSU DFMPHS Research Award.
- **Tywanda Crawford-Johnson**, WSU SOM 2006 graduate, matched with WSU/DMC Family Medicine residency program and received the George Mogill award.
- **Michael Kopec**, SOM Year 2 student, received a research grant from the Blue Cross Blue Shield of Michigan Foundation Student Award for his study "Depression Prevalence and Associated Risk Factors among Detroit Adolescents." **Kendra Schwartz, MD, MSPH** is the faculty mentor on this project.
- **Amanda Overmyer**, SOM Year 4 student, participated in the month-long DFMPHS elective "Research Methods in Family Medicine."
- **John Stásko**, SOM Year 3 student, received the North American Primary Care Research Group Student Research Award for his study "Health Care Access of Over-the-Road Truckers." **Victoria Neale, PhD, MPH** is the faculty mentor on this project.

Approaches

- The DFMPHS has a role in all four years of medical school training at WSU.
- Learning goals and objectives for clerkship students were aligned with the institutional learning goals of the medical school.
- Information Technology innovations were important in 2006. Clerkship students were given CDs of all didactic lectures and evaluation systems were web-based.

Activities

- The graduating class of 2006 showed an increase to 21 seniors matching into the family medicine speciality. Fifteen of those 21 seniors chose residencies in the state of Michigan.
- Division faculty mentored student-led community outreach initiatives such as the Violence Awareness Organization health screening event at a local domestic violence shelter and the AMSA "Who's Your Doctor?" Health Fair in Scott Hall.
- Our annual "Procedures Night" was a great success. In this event medical students learn procedures commonly performed in a family physician's office. Approximately 70 first- and second-year medical students participated in workshops on splinting, casting, suturing and colposcopy. Several local residency program faculty participated.



Tywanda Crawford-Johnson



Mike Kopec and Amanda Overmyer



Suturing workshop at "Procedures Night"

2006 was an outstanding year for the Division of Behavioral Science. Members were recognized for excellence in teaching, research, and service. The division implemented a competency-based curriculum which includes systematic evaluation of resident communication and patient care skills and their documentation of patient encounters. We designed a new well-being curriculum with input from residents and faculty. In recognition of their excellence in teaching, **Juliann Binienda, PhD** and **John Porcerelli, PhD** received Teaching Awards from the department and School of Medicine, respectively.

Research productivity continues to increase, and division members were successful in obtaining grant funding for practice-based and communications research: **John Porcerelli, PhD**, behavioral science division director, and his co-investigators **Tsveti Markova, MD**, **Monina Bartoces, PhD**, and **Rick Severson, PhD** continue to study the health effects and healthcare costs of victimized women and their children through their grant from the Michigan Department of Community Health. **Juliann Binienda, PhD**, successfully defended her dissertation on medical student education and end-of-life care in October.



Juliann Binienda and John Porcerelli

Communication & Behavioral Oncology Program

Faculty in the Communication and Behavioral Oncology (CBO) Program at the Karmanos Cancer Institute, led by **Teri Albrecht, PhD**, have been actively engaged in research, publication, and service during the past year. Of special note, **Rebecca Cline, PhD**, received the prestigious Distinguished Career Award from the Public Health Education and Health Promotion Section of the American Public Health Association in November. Faculty are involved in funded studies related to physician communication and patient accrual to oncology clinical trials, biopsychosocial influences on treatment decisions and parental influences on pediatric cancer pain, innovative measurement for assessing clinical benefits to patients of Phase I trials, and planning for new grants related to early diagnosis, resilience, and survivorship. Their work continues on a \$2.5 million NCI grant to address the disproportionate burden of cancer on older, underserved, African American men and women in the metropolitan Detroit area. **Lou Penner, PhD**, is conducting a related intervention study funded by the NICHD to reduce health disparities and improve physician-patient communication in primary care clinical settings. The CBO continues to be home to the MidWest Partnership Program for NCI's Cancer Information Service.

Faculty presented original research this past year at several national and international meetings, including the American Psychosocial Oncology Society, the Society for Behavioral Medicine, the National Cancer Institute Patient-Centered Communication Symposium, the American Society for Clinical Oncology, the American Association for Cancer Education, the American Public Health Association, and the National Communication Association. The faculty published numerous articles in journals such as the *Journal of Clinical Oncology* and *Social Science and Medicine*.



The Detroit Community Network Program Partnership to Reduce Cancer Health Disparities Among Older, Underserved African American Adults.

Abdul-Hussein A, **Morris P, Markova T**. Case Report: Unusual Presentation of Adenoid Cystic Carcinoma of Minor Salivary Glands with Cranial Nerve Palsy. Presented at: Michigan Family Practice Research Day XXIX; May 2006; Ann Arbor, MI.

Albrecht TL. Building a Communication Research Program in an Urban Cancer Institute. Presented at: 2006 Erwin P. Bettinghaus Health Communication Lecture, College of Communication Arts and Sciences, Michigan State University; April 2006; East Lansing, MI.

Albrecht TL. Recruiting and Retaining Clinical Trial Participation. Presented at: Practical Tips for Clinical Research Staff Conference, Michigan Society of Hematology and Oncology; March 2006; Novi, MI.

Albrecht TL. Discussing Clinical Trials with Patients. Paper presented at: The American Society of Clinical Oncology Clinical Trials Workshop; October 2006; Schaumburg, IL.

Albrecht TL. Consenting Oncology Patients in Research Studies. Presented at: The Grosh Medical Education Fund, IRB Lecture Series, ProMedica Health System, The Toledo Hospital; August 2006; Toledo, OH.

Albrecht TL. Physician Patient Communication and Clinical Trials. Presented at: The Gastrointestinal Cancers Symposium; November 2006; Troy, MI.

Albrecht TL. Physician Communication and the Myths of Clinical Trials. Presented at: The Annual Meeting of the American Society of Clinical Oncology; June 2006; Atlanta, GA.

Albrecht TL. New Issues in Communication with Patients about Surgical Oncology Trials. Presented at: Plenary Session, American College of Surgeons Oncology Group Meeting; June 2006; Chicago, IL.

Albrecht TL. Discussant at: The Symposium on Patient-Centered Communication in Cancer Care, National Cancer Institute; May 2006; Washington, DC.

Albrecht TL. Building a Behavioral Research Program in a Medical Setting. Presented at: Center for Health and Intervention Programs Lecture Series, University of Connecticut; October 2006; Storrs, CT.

Albrecht TL, Cline RJW, Penner LA, Peterson AM. Parental Role in Pediatric Pain. Presented at: The Annual Meeting of the Society of Behavioral Medicine; March 2006; San Francisco, CA.

Albrecht TL, Stengle W, Berry-Bobovski L, Lichtenberg P, Underwood W, Penner LA. Applying Social Network Analytic Techniques to Developing Community Partnerships: Crucial Lessons from the NCI/Detroit Community Network Program. Presented at: The Annual Meeting of the American Public Health Association; November 2006; Boston, MA.

Arnetz BB. Enhancing Physician and Organizational Health and Performance. Results from a Prospective Intervention in Primary Care Setting. Presented at: Michigan Family Research Day; May 2006; Ann Arbor, MI.

Arnetz BB. Mobile Phone Use and Health. Self-rated Health, Neurocognitive Function, Neurophysiological Effects During and Following Exposure to 900 MHz Wireless Communication Signals. A Laboratory-based Exposure Study. Presented at: PIERS 2006. Progress in Electromagnetics Research Symposium; March 2006; Cambridge, MA.

Arnetz BB. Organizations and Hormones During Change. Do Hormones Reflect Leadership Style? Presented at: Seminar in Stress in Health and Disease; September 2006; Gothenburg, Sweden.

Arnetz BB, Dunn P, Christensen JF. Fostering Healthy Physicians Organizations. Effects from an Integrated Health Promotion Program. Presented at: the American Medical Association/Canadian Medical Association 2006 International Conference on Physician Health; December 2006; Ottawa, Canada.

Arnetz JE. Treatment of Stress-related Disorders: The Patient's View. Presented at: Michigan Family Medicine Research Day XXIX; May 2006; Ann Arbor, MI.

Arnetz JE. Treatment of Stress-related Disorders: The Patient's View. Presented at: World Psychiatric Association International Congress, "Psychiatry: Uniqueness and Universality"; July 2006; Istanbul, Turkey.

Arnetz JE, Arnetz BB. Risk Factors for Violence towards Nursing Staff in Elderly Care. Presented at: Sixth International Conference on Occupational Stress and Health, American Psychological Association (APA) and National Institute for Occupational Safety and Health (NIOSH); March 2006; Miami, FL.

Arnetz JE, Höglund AT, Winblad Spångberg U, Arnetz B. Patient Involvement in Myocardial Infarction Care: Physicians' and Nurses' Views. Presented at: EACH International Conference on Communication in Health Care; September 2006; Basle, Switzerland.

Bartoces M, Shah B, Monsur J, Fakhouri M, Schwartz KL. A Survey of Breast Cancer Screening Activities and Beliefs among Arab Women in the Detroit Metropolitan Area. Presented at: The 29th Annual Michigan Family Medicine Research Day Conference; May 2006; Ann Arbor, MI.

Cline RJW, Berry-Bobovski L, Hernandez T, Black B, Schwartz A, Ruckdeschel JC. Living in "a Town Left to Die:" Impact of a Slow-motion Technological Disaster on Community Image and Dynamics. Presented at: The Annual Meeting of the American Public Health Association; November 2006; Boston, MA.

Booja J, Cutsinger J. The Convergence of Economic and Racial Diversity: The Prevalence of Mixed-Income/Mixed-Race Neighborhoods in America, 1970-2000. Presented at: Urban Affairs Association Annual Conference; April 2006; Montreal, Canada.

Booja J, Cutsinger J. The Spatial Decline of Middle America and its Political Implications. Presented at: Midwest Political Science Association; April 2006; Chicago, IL.

Campbell-Voytal K, Gutai J. Obesity Risk and Primary Prevention of Type 2 Diabetes in Youth. Presented to: Michigan Department of Community Health, May 2006, Lansing, MI.

Campbell-Voytal K, Gutai J. Family Stress (FILE), Coping (FES), and Health Literacy (STOFHLA) as Risk Factors for Obesity in Children. Presented at: the American Diabetes Association 66th Scientific Session, June 2006, Washington, DC.

Cline RJW, Berry-Bobovski L, Hernandez T, et al. When Everyone Needs Help: Social Support Processes Associated with a Slow-motion Technological Disaster. Presented at: The Annual Meeting of the American Public Health Association; November 2006; Boston, MA.

Cline RJW, Jones EM, Peterson AM, Penner LA, Taub JW, Ruckdeschel JC, Albrecht TL. Verbal Combat: Risks of Invalidating Children's Experiences During Painful Oncology Procedures. Presented at: The Annual Meeting of the Society of Behavioral Medicine; March 2006; San Francisco, CA.

Cline RJW, Jones EM, Peterson AM, Penner LA, Taub JW, Ruckdeschel JC, Albrecht TL. Understanding the Role of Parents' Invalidating Communication During Painful Pediatric Oncology Procedures: A Theoretical Model and Cases. Presented at: The Biannual Meeting of the Kentucky Conference on Health Communication; April 2006; Lexington, KY.

Colt JS, Hartge P, Davis S, Cerhan J, Cozen W, **Severson RK**. Hobbies with Solvent Exposure and Risk of Non-Hodgkin Lymphoma. Presented at: The 18th Annual Meeting of the ISEE/ISEA; September 2006; Paris, France.

Delaney-Black V, Chiodo L, Sokol RJ, Ratner H, **Janisse J, Hannigan JH, Ager J, et al**. Using Structural Equation Modeling (SEM) to Predict Teen Cognition and Achievement. Presented at: Pediatric Academic Societies' Annual Meeting; May 2006; San Francisco, CA.

Dhillon B, **Markova T, Martin S**. Clinical inquiries. What are the Most Effective Therapies for Acute Sciatica? Presented at: The Michigan Family Medicine Research Day XXIX; May 2006; Ann Arbor, MI.

Egely S, Underwood W, Ruckdeschel JC, **Penner LA, Foster T, Austin T, Albrecht TL**. Observational and Perceptual Indicators of Racial Disparities in Oncologist-Patient Interactions. Presented at: Intercultural Cancer Council 10th Biennial Symposium on Minorities, the Medically Underserved & Cancer; April 2006; Washington, DC.

Fasenfest D, **Booja J**. Living Together – Living Apart: Racial and Ethnic Integration in Metropolitan Neighborhoods, 1970-2000. Presented at: The Institute for the Study of the Americas & the British Library Eccles Centre for American Studies; May 2006; London, England.

Gallagher R, Bridge P, Berry-Bobovski L, Albrecht TL, Lichtenberg P, Penner L, et al. Program Evaluation Methods to Facilitate the Development, and to Assess Selected Outcomes of Community-Based Programs to Reduce Cancer Disparities. Presented at: American Association for Cancer Education Annual Meeting; October 2006; San Diego, CA.

Gallagher R, Stengle W, Bridge P, Berry-Bobovski L, Albrecht TL, Lichtenberg P, Penner L, et al. Addressing Inequality in the U.S. Cancer Health through Community Network Programs. Presented at: 20th Annual Scientific Meeting of the European Association for Cancer Education; June 2006; Eschende, Netherlands.

González HM. Disparities in Antidepressant Use Among Community-dwelling Black and White Americans. Presented at: American Psychological Association, Science Directorate; December 2006; Washington, DC.

González HM, Crogan TW, et al. Use and Misuse of Antidepressants in Nationally Representative Samples of Community-Dwelling African Americans: Results from the National Survey of American Life. Presented at: Academy Health; June 2006; Seattle, WA.



González HM, Crogan TW, West BT, et al. Disparities in Antidepressant Use among Community-Dwelling Black and White Americans: Results from the National Survey of American Life and the National Co-morbidity Survey Replication. Presented at: NIH Conference on Understanding and Reducing Disparities in Health: Behavioral and Social Sciences Research Contributions; October 2006; Bethesda, MD.

González HM, Crogan TW, et al. Use and Misuse of Antidepressants in Nationally Representative Samples of Community-Dwelling Asian, Black, and Latino Americans – Results from the National Latino Asian American Survey and the National Survey of American Life. Presented at: American Public Health Association; November 2006; Boston, MA.

González HM, Hinton L, Haan MN. Executive Function and Functional Impairment in a Community-Dwelling Sample with Low Education and Literacy. Presented at: Tenth International Conference on Alzheimer's Disease and Related Disorders; July 2006; Madrid, Spain.

Hakim-Larson J, Farrag M, **Jamil H**, et al. Hope and Fostering the Well-Being of Refugees from Iraq. Presented at: The 4th National Health Conference in the Arab American Community; May 2006; Dearborn, MI.

Harper FWK, Keller C, Peterson AM, **Cline RJW**, **Penner LA**, Taub JW, **Albrecht TL**. Caregivers' Depression and Anxiety and Their Use of Nonverbal Behavior During Pediatric Oncology Treatment. Presented at: The 3rd Annual Meeting of the American Psychosocial Oncology Society; February 2006; Amelia Island, FL.

Harper FWK, Schmidt JE, Graves KD, Andrykowski MA. How Different Are Internet Users? A Comparison of Internet Use in a Community-based Sample of Women. Presented at: Society of Behavioral Medicine Annual Meeting; March 2006; San Francisco, CA.

Hillert L, Åkerstedt T, Kuster N, Lowden A, Berg M, **Wilholm C**, Ebert S, Moffat S, Musabasic V, **Arnetz BB**. The Effect of 900 MHz GSM Wireless Communication Signal on Subjective Symptoms and Physiological Reactions: An Experimental Provocation Study. Presented at: The Conference in Biological Effects of EMFs 4th International Workshop; October 2006; Crete, Greece.

Jamil H, Fakhouri M, Templin T, et al. Prevalence of Chronic Diseases Among Arab American & Chaldean Community. Presented at: The 20th NAAMA International Convention; June 2006; Amman, Jordan.

Jamil H, Fakhouri M, Hill Rice V, et al. Tobacco (Cigarette & Argeela) use among Arab American & Chaldean Council (ACC) Clients, Visitors and Community Members / 2005 in Michigan. Presented at: 13th World Conference on Tobacco OR Health; July 2006; Washington, DC.

Jamil H, Nassar-McMillan S, Lambert R, Hammad A. Gulf War 1991 Environment and the Medical Complaints of Iraqi American People. Presented at: The 4th National Health Conference in the Arab American Community May 2006; Dearborn, MI.

Lazarean A, Trudeau K, **Booz J**. Spatial Effects of Industrial Tax Abatements. Presented at: Michigan Land Use Summit; March 2006; Lansing, MI.

Markova T. Update on Type 2 Diabetes Mellitus. Presented at: Great Lakes State Family Medicine Review. Sponsored by the Southeast Michigan Center of Medical Education; June 2006; Beverly Hills, MI.

Merluzzi TV, **Harper FWK**, Graves KD, et al. Husbands' and Wives' Judgments of Self-efficacy for Coping Affects Wives' Adjustment to Breast Cancer. Presented at: 8th World Congress of Psych-Oncology Meeting; 2006; Venice, Italy.

Miller V. Cervical Cancer Screening: Women with Disabilities. Presented at: The American Public Health Association Annual Meeting; November 2006; Boston, MA.

Miller V, Diamond M. Assisted Reproductive Technologies (ART): Public Health and Families Issues. Presented at: The American Public Health Association Annual Meeting; November 2006; Boston, MA.

Neale AV, **Schwartz KL**. Research integrity indicators for practice-based research networks. Workshop presented at: The AHRQ National PBRN Research Conference; May 2006; Bethesda, MD.

Nriagu J, Johnson M, Hammad A, Savoie K, **Jamil H**. Asthma & Mental Health Symptoms Among Adult Arab Americans in the Detroit Area. Presented at: The 4th National Health Conference in the Arab American Community; May 2006; Dearborn, MI.

Orom H, Eggly S, **Albrecht TL**, **Penner LA**, Ruckdeschel J. Patient Age and Involvement in Oncology Consultations Influence the Quality of Physician/Companion Relationships. Presented at: The Annual Meeting of the Gerontological Society of America; November 2006; Dallas, TX.

Parrott RL, Ndiaye K, **Cline RJW**. Considering the Implications of Family Health History: Possible Dilemmas and Probable Directions for Communicating about the Role of Genes for Health. Presented at: The Annual Meeting of the National Communication Association; November 2006; San Antonio, TX.

Penner LA, **Cline RJW**, Jones EM, Taub JW, Ruckdeschel JA, **Albrecht TL**. Dispositional and Affective Correlates of Treatment-related Pain Among Pediatric Cancer Patients. Presented at: The Annual Meeting of the Society of Behavioral Medicine; March 2006; San Francisco, CA.

Peterson AM, **Cline RJW**, Foster TS, Jones EM, **Penner LA**, Taub JW, Ruckdeschel JC, **Albrecht TL**. Indirect Support: Effects of Multiple Caregivers on Nonverbal Immediacy Experienced by Children during Painful Pediatric Oncology Procedures. Presented at: The Annual Meeting of the Society of Behavioral Medicine; March 2006; San Francisco, CA.

Porcerelli JH. Using a Self-report Measure in Psychoanalytic Therapy: Tracking Progress and Outcome. Part of the Evidenced-based Assessment: Application to Psychotherapy. Presented at: Michigan Psychological Association; September 2006.

Porcerelli JH, Huprich S, **Binienda J**, Karana D. Object Representation, Psychopathology, and Physical Health Status: Women in Primary Care. Presented at: Annual Meeting of the Society for Personality Assessment; March 2006; San Diego, CA.

Roe T. Teaching and Evaluating the Use of Technology to Communicate With Patients Outside of the Exam Room—Using an OSCE Station to Evaluate Medical Student Performance in Telephone Communication with Patients. Presented at: Society of Teachers of Family Medicine Annual Predoctoral Education Conference; February 2006; Charleston, SC.

Roe T. Using a Simulated Patient Education Encounter to Assess Medical Students' Ability to Provide Appropriate Patient Education. Presented at: Society of Teachers of Family Medicine Annual Predoctoral Education Conference; February 2006; Charleston, SC.

Schwartz KL. Osteoporosis Update. Presented at: Great Lakes State Family Medicine Review; June 2006; Beverly Hills, MI.

Schwartz KL. Breast Disease. Presented at: Great Lakes State Family Medicine Review; June 2006; Beverly Hills, MI.

Schwartz KL. The Cancer Burden Among Arab Americans in Metropolitan Detroit. Presented at: The Second Biennial National Conference on Health Issues in the Arab-American Community; May 2006; Dearborn, MI.

Schwartz KL, **Neale AV**, Northrup J, **Monsur J**, Tobar R, Jr, Wortley P. Racial Similarities in Response to a Standardized Offer of Influenza Vaccination: A MetroNet Study. Presented at: The 29th Annual Michigan Family Medicine Research Day Conference; May 2006; Ann Arbor, MI.

Underwood W, Orom H, Brittain K, **Albrecht TL**. The Role of Information Technology in Prostate Cancer. Presented at: The Annual Meeting of the American Public Health Association; November 2006; Boston, MA.

Veselinova L, **Booz J**. Using GIS to Map the Multilingual City. Presented at: ESRI User Conference; August 2006; San Diego, CA.

Wabeke R. Health Issues and Hazards from Environmental Pollutants. Presented at: Faith and the Environment Conference; September 2006; Grosse Ile, MI.

White S, **Popp S**, Jackson M, Crist K. Terrorism, Disaster and Public Health Emergency Curriculum. Presented at: Annual Meeting of the Association of American Medical Colleges; October 2006; Seattle, WA.

Yoder E, **Bridge P**, **Markova T**. Essentials in Resident Education: Evaluation & Assessment. Faculty Development Workshop presented at the Southeast Michigan Center of Medical Education; June 2006; Providence, MI.

Young R, Kallenbach L. Age Effects on Breast Cancer Prevention Behavior by High Risk Minorities. Presented at: American Public Health Association Annual Meeting; November 2006; Boston, MA.

Xu J. Prostate Cancer Screening: Who and How Often? Invited Grand Round presentation at McLaren Family Practice Residency, April 2006, Flint, Michigan.

Division of Clinical and Community Translational Research

The Division of Clinical and Community Translational Research (CCTR) was created in 2006 with faculty and staff previously located in the Division of Practice-Based Research, as well as faculty members from Community Medicine and the Center for Health Effectiveness Research. The new name captures our intent to expand the breadth of our activities and to emphasize the translational component of our research, which focuses on improving the health of populations beyond the academic medical center, in primary care clinical offices, and the broader community.

Faculty members of the CCTR Division **Kendra Schwartz, MD, MSPH, Victoria Neale, PhD, Jinping Xu, MD, Hector Gonzalez, PhD, Rosalie Young, PhD, and Virginia Miller, DrPH.** They are supported by a very capable group of research staff, including **Monina Bartoces, PhD,** research associate, **Rhonda Dailey, MD,** research associate, **Joe Monsur, BS,** research assistant, and **Rebecca Radtke,** administrative assistant. The newest staff member is **Jason Booza,**

MA, a demographer and political scientist whose expertise has been integral to several grant proposal submissions.

MetroNet

Division members are committed to addressing health disparities among the diverse racial/ethnic and socioeconomic populations of southeast Michigan. The CCTR objectives are to: 1) investigate methods of translating research findings into better care for our patients and communities, and 2) ascertain and establish the evidence for the care we provide. To that end, we continue to build **MetroNet,** a successful practice-based research network in metropolitan Detroit that focuses on the health disparities of our region. We welcome collaborations within and outside the university community to assist us in fulfilling our objectives.

Several MetroNet studies were launched in 2006. Patients at MetroNet member offices were asked to complete surveys on topics as varied as childhood obesity, self-monitoring of blood pressure, and stress in everyday life. It is only through practice-based research and the cooperation of many primary

care physicians that we can begin to answer clinical questions that arise from our unique population.

Clinical Encounter Communication

The CCTR Division is supported in part by a grant from the Department of Health and Human Services/Health Resource Services Administration. This money is important to help sustain the research support staff in the Division. In 2005, we received renewal funding to continue to grow MetroNet and begin a new area of inquiry in Clinical Encounter Communication. Members of the Divisions of Family Medicine Residency, CTTR, and Behavioral Sciences are studying the patient-physician communication that occurs during a clinical encounter, in order to determine the communication patterns that optimize health outcomes. Using state-of-the-art equipment and processes pioneered by members of the Communication and Behavioral Oncology group within the Division of Behavioral Sciences, patient-physician encounters occurring at the University Family Physicians - Detroit site are being videotaped and coded for communication behaviors.



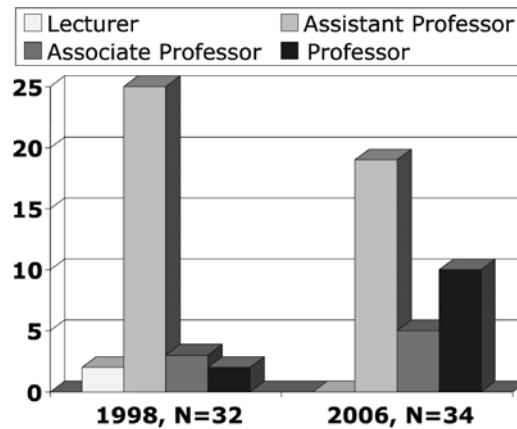
Front row: Jinping Xu, Rosalie Young, Monina Bartoces, Rhonda Dailey, Joe Monsur
Back row: Victoria Neale, Hector González, Kendra Schwartz, Jason Booza, Rebecca Radtke

As the DFMPHS faculty continue to increase their scholarship, several have also been promoted, reflecting a maturing of the department. In 1998, 25 of 32 faculty were Assistant Professors. By 2006, the proportion of Assistant Professors had dropped as the number of full professors (10/34) and associate professors (5/34) have grown substantially.

Each year the National Institutes of Health (NIH) Office of extramural Research ranks medical school departments based on the dollar amount of their NIH funding. Only 5 years ago, in 2001, the DFMPHS was unranked among other family medicine departments because we did not have any NIH-funded grants. In 2002 we were ranked 35th, and since then, our ranking has improved each year. In 2005 (the most recently available data), the WSU DFMPHS received 3 NIH grants for a total amount of \$879,176, and was ranked 19th in the nation.

Faculty had 116 peer reviewed publications in 2006 with an average of 3.4 publications per faculty member. This level of scholarship is just slightly below the all time record high set in 2005.

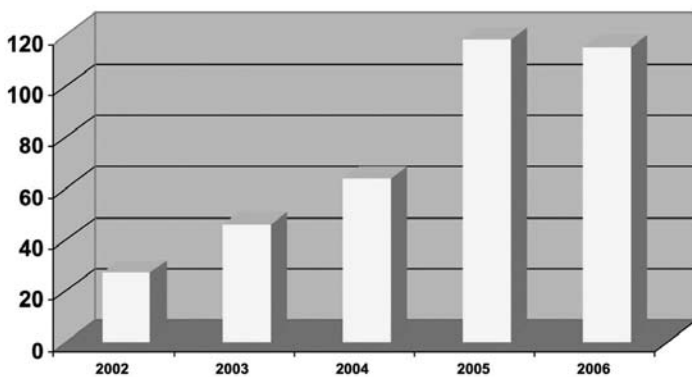
DFMPHS Faculty by Rank



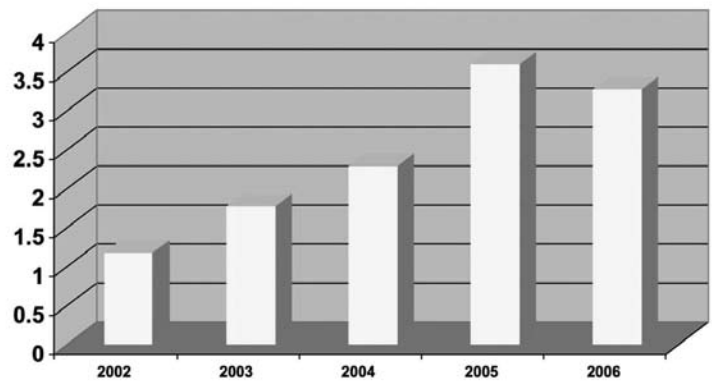
NIH Ranking of WSU DFMPHS Compared to Family Medicine Departments with NIH Funding

- 2001 unranked
- 2002 35th
- 2003 21st
- 2004 22nd
- 2005 19th

Peer-reviewed Publications



Peer-reviewed Pubs/Faculty



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The Department of Family Medicine and Public Health Sciences at Wayne State University is committed to improving the health, well-being and environment of individuals, families, and communities by advancing the science and practice of family medicine and public health through innovation and excellence in research and education.

For additional information regarding our research, education programs, or other projects, contact the Department of Family Medicine and Public Health Sciences at 313-577-1421 or visit our website <http://med.wayne.edu/fam>.

Editor-in-Chief
Maryjean Schenk, MD, MPH, MS

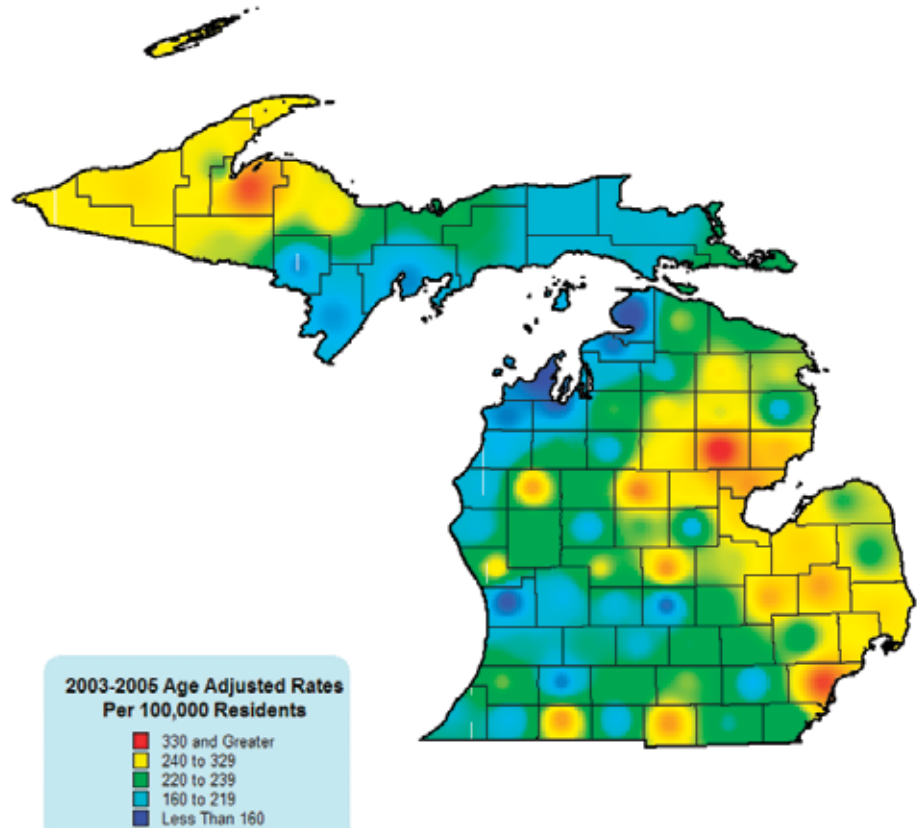
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Heart Disease Death Rates for Michigan Counties



Source: MI Department of Community Health