

SUSAN D. WOLFSTHAL, M.D.

Celeste L. Woodward Professor in Humanitarian and Ethical Medical Practice
Associate Chair for Education
University of Maryland School of Medicine

CURRICULUM VITAE

September 2016

PERSONAL INFORMATION

Address: Department of Medicine
University of Maryland
22 South Greene Street
Baltimore, Maryland 21201-1595
(410) 328-2388
E-mail: swolfsth@medicine.umaryland.edu
Fax: (410) 328-0267

EDUCATION

1972-1976 B.A. Biology (Magna Cum Laude), University of Rochester, Rochester, New York
1976-1980 M.D. Johns Hopkins University School of Medicine, Baltimore, Maryland

Internship (medical)

1980-1981 Department of Medicine, Johns Hopkins Hospital, Baltimore, Maryland

Residency

1981-1982 Assistant Resident, Department of Medicine, Johns Hopkins Hospital, Baltimore, Maryland
1982-1983 Resident, Department of Medicine, Johns Hopkins Hospital, Baltimore, Maryland

Faculty Development

1987-1989 Faculty Fellow
Division of General Internal Medicine, University of Maryland
Faculty Development Grant (#02521579)
Department of Health and Human Services, U.S. Public Health Service

July 2000 Faculty Development. Senior Women in Academic Medicine, American Association of Medical Colleges.
Conference participation based on competitive selection by the AAMC.

CERTIFICATION

1983 Diplomate, American Board of Internal Medicine

LICENSURE

1980 Maryland Board of Physician Quality Assurance

MAJOR RESEARCH INTERESTS

Internal Medicine Graduate and Medical Student Education
Faculty Development

EMPLOYMENT HISTORY

Faculty Appointments

University of Maryland School of Medicine, Baltimore, MD

1983-1984 Instructor in Medicine, Division of General Internal Medicine
1984-1990 Assistant Professor of Medicine, Division of General Internal Medicine
1990-2008 Associate Professor of Medicine, Division of General Internal Medicine
2008 – present Professor of Medicine, Division of General Internal Medicine

Administrative Appointments

1984-1992 Director, Medical Consultation Service
1987-1993 Director, Ambulatory Education, Department of Medicine
1992-present Program Director, Internal Medicine Residency Training Program
1994-2011 Co-Director, Residency Training Program, Medicine-Pediatrics Residency
Training Program
1996-2006 Co-Director, Residency Training Program, Internal Medicine-Emergency
Medicine Residency Training Program
1997-present Associate Chair for Education, Department of Medicine
2005-present Oversight of inpatient clinical services, Department of Medicine
2006-present Core Faculty, Emergency Medicine-Internal Medicine Residency Training Program
2011-present Associate Program Director, Medicine-Pediatrics Residency Training Program

PROFESSIONAL MEMBERSHIPS

1982-1986 Associate, American College of Physicians
1984-2004 Member, Society of General Internal Medicine
1986-1990 Member, American College of Physicians
1990-present Elected Membership, Fellow, American College of Physicians
1992-present Member, Association of Program Directors in Internal Medicine
1995-present Member, Medicine-Pediatrics Program Directors Association
2002-present Founding Member, Elected Membership, National Gold Humanism Society,
University of Maryland School of Medicine. Elected by medical students for
exhibiting outstanding humanism in medicine and integrity as a physician.

HONORS AND AWARDS

- 1972-1976 American Cancer Society Scholarship
Regional Alumni Scholar, University of Rochester
New York State Regional Scholarship and Incentive Award
- 1976 Phi Beta Kappa, University of Rochester
- 1976-1979 Richardson Fund Award, Johns Hopkins University School of Medicine
Davidson-Foreman Fund Award, Johns Hopkins University School of Medicine
- 1983, 1987 Physician Recognition Award, American Medical Association
- 1987 Senior Residents' Award for Gifted Teaching in Medicine, Department of
Medicine, University of Maryland
- 1995 AOA, Elected by senior medical school class of University of Maryland for
excellence in teaching
- 2000 Elected as founding member, National Gold Humanism Society
University of Maryland School of Medicine, in recognition of outstanding
humanism in medicine and integrity as a physician.
- 2001 Celeste L. Woodward Professor of Humanitarian and Ethical Medical Practice
- 2003 C. Lockard Conley Award for Excellence in Resident Teaching and Research,
Presented by the Maryland Chapter of the American College of Physicians in
recognition of excellent in resident teaching and research.
- 2003 Senior Residents' Award for Excellence in Teaching, Department of Medicine
- 2005 First Student Marshall, School of Medicine graduation, selected by the
graduating class of 2005
- 2006 Hooding of Medical Students at School of Medicine graduation, selected by the
graduating class of 2006
- 2007 Top Doctor, Baltimore Magazine, November 2007
- 2008 Faculty Marshall, School of Medicine graduation, selected by graduating class of
2008
- 2014 Fellow, Carolyn J. Pass, MD '66 and Richard J. Susel, MD '66 Academy of
Educational Excellence, University of Maryland School of Medicine in
recognition of faculty who demonstrate excellence in bedside, classroom and
innovative medical education
- 2014 Student Marshall, School of Medicine graduation, Selected by graduating class
of 2014

2016 Chairman's Special Achievement Award in grateful appreciation for outstanding service, leadership and dedication to the Department of Medicine.

CLINICAL ACTIVITIES

University of Maryland Physicians, PA

1983-present Continuity practice in general internal medicine, 2 half-day sessions/week.
Current patient panel = 300, average patients seen/year = 350

University of Maryland Medical Center

1983-1993 Director, Medical Consultation Service, Department of Medicine
Developed new service to provide comprehensive general medicine consultations and preoperative risk assessment. Initial assignment 12 months/year, then 2 months/year.

1983-present Supervision of general medicine inpatient service with average daily census of 12-18 patients with a variety of internal medicine illnesses. Supervision of 1 resident, 2 interns, 1 subintern and 2-3 3rd year medical students. Current assignment 4 weeks/year (was 2 months/year prior to 1992).

1983-present Supervision of continuity medical clinic at University Health Center.
Supervision of 5 residents and 1 medical student, and practitioners in the Anticoagulation Clinic. Current assignment is ½-day/week (two ½-days/week prior to 1992). Supervise approximately 750 patients/year.

2005-present Oversight of inpatient clinical services, Department of Medicine

ADMINISTRATIVE SERVICE

Institutional Service

Department of Medicine

1984-1992 Director, Preoperative Evaluation Clinic, University Health Center
1984-present Chair (since 1992), Resident Selection Committee, Department of Medicine
1984-present Chair (1992-2006), Postgraduate Education Committee
Member (1992-present)
1984-present Chair (since 1992-2013), Clinical Competency Committee, Member 1984-present
1984-1985 Member, Advisory Committee, University Health Center
1984-1985 Organizing Committee, Faculty Development Course, Division of General Internal Medicine
1984-1985 Member, Department of Medicine Clinic Committee
1985-1987 Medical Liaison, Department of Medicine Faculty Practice Office
1986-1987 Medical Practice Director, Division of General Internal Medicine
1987-1993 Member, Chair (1987-1993), Ambulatory Education Committee
1986-1987 Member, Practice Development Committee
1990-1992 Chair, Faculty Practice Office Operations Committee
1993-1998 Member, Medical Student Education Steering Committee
2001-2013 Central Interdisciplinary Cancer Education Committee (CICEC)
2014-present Chair, Program Evaluation Committee

University of Maryland School of Medicine

- 1985-1986 Member, Teaching Methodologies and General Professional Education of the Physician (GPEP) Committee, Association of American Medical Colleges
- 1985-1986 Chair, General Professional Education of the Physician (GPEP) Year III Subcommittee
- 1986-1992 Member, Interview Committee for incoming medical students
- 1988-1989 Chair, Dean's Task Force on Ambulatory Education
Charged by the Dean of the School of Medicine to lay out a new approach to primary care education for medical students. Prepared a document with short and long term recommendations for a cohesive approach to ambulatory education for the School of Medicine.
- 1999-2002 Chair, Curriculum Coordinating Committee
1989-2002 Member, Curriculum Coordinating Committee
Three-year term in chairing the major curriculum committee for the School of Medicine with oversight over curriculum and evaluation during basic science and clinical years. Member for 13 years.
- 1990-1993 Member, Ambulatory Care Committee
Charged with developing a cohesive interdisciplinary ambulatory curriculum for medical students across specialties.
- 1992 Member, LCME Subcommittee, Clinical Departments
Graduate and CME Data Base
- 1992-present Advisor for 4th year medical students
Conduct annual workshops on application process for residency training, individual counseling sessions for all students applying for internal medicine with ongoing counseling throughout the interview season
- 1993-1996 Member, Graduate Medical Education Policy Committee
- 1996-1999 Chair, Clinical Years Committee of the Curriculum Coordinating Committee
- 1998-1999 Member, LCME Accreditation Process, Clinical Departments
Graduate and Continuing Medical Education Subcommittee
- 1998-1999 Member, LCME Accreditation Process, Educational Process Subcommittee
- 2000-2002 Chair, Education Subcommittee
Member, Strategic Planning Committee, 2000-2005
Responsible for determining the 5-year strategic plan in education for the School of Medicine.
- 2005-2007 Member, Bicentennial Advisory Committee, School of Medicine
- 2005-2006 Member, Search Committee for Dean of the School of Medicine
- 2006-2007 Member, LCME Self-Study Task Force, Steering Committee

- 2006-2007 Member, LCME Subcommittee for Educational Process
- 2009-2010 Member, Clinical Education Subcommittee, Strategic Planning Initiative
Development of a roadmap for curricular planning and evaluation over next 5 years.
- 2011-present Co-Director Introduction to Clinical Medicine – II for second year medical students
- 2015-2016 Member, LCME Self-Study Task Force, Education
- 2015-2016 Member, LCME Self-Study Task Force, Policies

University of Maryland Medical Center

- 1992-present Internal Reviewer of graduate medical education programs.
Review of curriculum evaluation system and compliance of RRC training requirements for residency training programs in UMMC. Approximately 1/year, including most recently Pediatric Endocrinology and Neurosurgery.
- 1992-present Internal Reviewer of medicine subspecialty fellowship programs.
Review of RRC requirements in NAS system for all medicine fellowship programs; frequency dependent of review cycle of program; includes initial reviews at naming of new program director, ongoing targeted reviews due to RRC citation or correspondence, or other triggering event.
- 1992-present Member, Chair (1993-1996), Graduate Medical Education Committee, University of Maryland School of Medicine and University of Maryland Medical Center
Major committee with oversight of all residency training programs at UMMC, including creation and implementation of policy, review of compliance with RRC requirements, approval of new programs and training sites.
- 1995-1996 Member, Education and Research Committee
- 1995-1996 Chair, GME Policy Committee Task Force on Credentialing
- 1998-1999 Member, Medical Executive Committee, Medical Staff Organization
- 2004 Co-Chair, Resident and Student Education, Ambulatory Facility Project
- 2005-present Due Process Hearings, Graduate Medical Education Committee. Various reviews.
- 2006-2007 Member, UMMC Strategic Planning Advisory Committee
Participant in process with UMMC leadership to determine long term strategic plan for UMMS, across clinical, research and educational areas.
- 2009 Member, Steering Committee, Optimizing Patient Flow
Member, Inflow Subcommittee, Optimizing Patient Flow
Member, Outflow Subcommittee, Optimizing Patient Flow
- 2009-2010 Member-At-Large, Medical Executive Committee

- 2013 Member, Strategic Planning Committee 2014-2018
- 2014-present Member, Annual Institutional Review Committee for graduate medical education

Local and Regional Service

American College of Physicians

- 1991-1995 Council Member, Governor's Council
Maryland Chapter of the American College of Physicians

Society of General Internal Medicine

International organization of physicians dedicated to promoting patient care, education and research in primary care and general internal medicine.

- 1992-1993 Chair, 12th Mid-Atlantic Regional Meeting
Society of General Internal Medicine
- March 1993 Planning and implementing a women's health curriculum. (Workshop). 12th
Mid-Atlantic Regional Meeting of Society of General Internal Medicine,
Baltimore, MD. March 1993.
- March 2000 Workshop Leader. Implementing an Evidence Based Medicine Curriculum. 20th
Annual Mid-Atlantic Regional Meeting of the Society of General Internal
Medicine, Baltimore, MD, March 2000.

National Service

Associate of Program Director in Internal Medicine

International organization of accredited internal medicine residency programs, dedicated to the promotion of excellence in internal medicine training. Membership of over 1,800 individuals, 400 institutions, representing 95% of accredited internal medicine residency programs.

- 1995-1996 Member, Nominating Committee
- 1995-1998 Member, Research Committee
- 1998-2003 Chair, Membership Scientific Data and Survey Committee
Association of Program Directors in Internal Medicine
Responsibilities including development of research projects in graduate medical education. Resulted in publication in Academic Medicine on "Benchmarks of support in internal medicine residency training programs." that has been a significant resource for program directors.
- 1996-2005 Member, Long Range Planning Committee
Charged with developing a key strategic plan for the organization as a leader in graduate medical education.
- 1997-2000 Council Member (elected position)
Elected for a 3-year term to assist in furthering the goals and projects of APDIM.

- 1997-present Morning Report. Annual APDIM Workshop for Chief Residents. Spring Meeting of the Association of Program Directors in Internal Medicine, Various national locations. (not in 2013)
Invited annually to present workshop for rising chief residents in internal medicine from around the country, on techniques for conducting successful clinical conferences in their institutions.
- 2000 Docent, Precourse for New Program Directors. Fall Meeting of the Association of Program Directors in Internal Medicine. Chicago, 1998; Washington, D.C., 2000.
Assisted in guiding program directors through the information and skills needed for success in their new positions.
- April 2004 Strengthening affiliations between community hospitals and university hospital teaching programs. Spring Meeting of the Association of Program Directors in Internal Medicine, New Orleans, LA, April 2004.
Workshop delivered with leaders from local community hospitals in Baltimore to review our successful collaboration in resident and fellow education, including solutions for financing the operation and measurable outcomes.
- April 2004 - 2010 The Problem Resident. APDIM Workshop for Chief Residents. Spring Meeting of the Association of Program Directors in Internal Medicine, San Diego, April 2004, and other various locations.
- April, 2008 Leadership in Residency Education. Invited by APDIM leadership to deliver lecture at plenary session of the annual meeting of the organization. New Orleans, LA.
- 2008-present National mentoring program for leaders in medical education
- April, 2011 Bumps in the road: maintaining momentum and preventing burnout in your chief year. Neda Frayha, MD, Workshop leader. APDIM Workshop for Chief Residents. Spring Meeting of the Association of Program Directors in Internal Medicine, Las Vegas, April 2011.
- October, 2012 Learners in Need: Principles of Diagnosis and Remediation. 2012 Clerkship Directors of Internal Medicine – Association of Program Directors of Internal Medicine Joint Precourse. Phoenix, AZ. October 2012.
- April, 2013 What Are Your Interns Doing with Their Time? Workshop for Spring Meeting of the Association of Program Directors in Internal Medicine. Orlando, FL, April 2013.

Society of General Internal Medicine

- May 1997 Responding to the changing health care environment: The ambulatory care blocks (Workshop). National Meeting of the Society of General Internal Medicine, Washington, DC. May 1997.
Delivered workshop in collaboration with educators from University of California at San Francisco on implementation of a successful ambulatory block model for residency training in primary care and outpatient subspecialties.

Bureau of Health Professions, Health Resources and Service Administration (HRSA)

- 1997-2002 Advisory Committee
Grant reviewer/site visitor: Undergraduate Medical Education-21 Project
Committee identified 18 medical school awardees who proposed innovative curricula in primary care to move undergraduate medical education into the 21st century. Was site visitor for several applicant medical schools.
- 2002 Abstract reviewer. Annual meeting of Undergraduate Medical Education-21 Project

Editorial Tasks

- 1995 Reviewer, Clinical Competencies
Federated Council of Internal Medicine (FCIM) Curriculum Task Force
- 1995-1998 Reviewer, *Journal of General Internal Medicine*
- 1996 Reviewer, *Medical Knowledge Self-Assessment Program*
- 1996-1999 Section Editor, "Clinical Conferences from the University of Maryland" series in the *Maryland Medical Journal*
- 2003-present Reviewer, *Annals of Internal Medicine*
- 2016-present Reviewer, *Journal of Graduate Medical Education*

TEACHING ACTIVITIES (*please see Teaching Portfolio for description of these activities*)

Medical Student Education

- 1984-1992, 1999-2000 Preceptor, Sophomore Course in Physical Diagnosis (2 students)
- 1986-1991 Preceptor, junior medicine rotation (1.5 months/year, 20-25 students)

Medical Student Mentoring

- 1992-present Advisor for 4th year medical students applying to internal medicine residency training programs, averaging 35-45 per year
- 2012-present Primary care preceptor for HRSA sponsored Primary Care Track
Emily Purcell, MS1 and 2 (2012-2014)
Ashley Barnes, MS1 and 2 (2014-2016)
Pending, MS1 and 2 (2016-2018)
- 2013-present Women in Medicine preceptor
Sagarika Sinha, MS1 and 2 (2013-2015)
Jing Jenny Xiang, MS 1 and 2 (2014-2016)

Medical Student and Resident Education

- 1983-present Attending and teaching physician on in-patient medical service
University of Maryland Medical Center

2 months/yr ('83-'92), 1 month/yr ('92-present), 7 days/wk, 3 residents, 3 students

1983-present Attending physician and preceptor for resident weekly continuity clinic
University Health Center
2 half days/wk ('83-'92), 1 half day/wk ('92-present), 10 residents, 1 student

1984-1985 Attending physician on in-patient medical service
VA Medical Center
1.5 months/year, 4 residents, 4 students

Resident Education

1983-1991 Attending physician and preceptor in outpatient Emergency Care Services
Veterans Affairs Medical Center
1 day/week, 4-6 residents

1983-1992 Founder, Director and attending physician, Medical Consultation Service
University of Maryland Medical Center
1-2 months/year, 1 resident, 1 student

1987-1993 Director, Ambulatory Education, Department of Medicine

1990-1991 Attending, medical consultation service
Veterans Affairs Medical Center (1 month/year, 1 resident)

1992-present Faculty leader, Morning Report (daily), Department of Medicine
30+ interns and residents, 20-30 medical students, 2-3 faculty members

Resident Mentoring

1992-present Program director and mentor for over 130 internal medicine residents

Faculty Education

1987, 1988, 1991 Course Director, Medical Perioperative Management
Medical Consultation and Management in the Perioperative Period
University of Maryland School of Medicine

2000-present Director of faculty development curriculum, Department of Medicine
Lecturer and workshop coordinator

Faculty Mentoring

1992-present Mentoring to 14 fellowship program directors, Department of Medicine
Oversight of curriculum, evaluation and compliance with RRC requirements

2005-2009 Anita Ung, MD *
Evaluation of clinical outcomes in a continuity practice as a result of the
implementation of Medicare sponsored prescription plan.

- 2005-2009
2009-present
- Nikkita Southall, MD *
- Assessment of the clinical impact of implementation of a curriculum in nutrition for internal medicine residents
Mentoring committee member
** Federal grant support received from HRSA to allow junior faculty to engage in educational research, attend seminars in statistics and research design, and provide mentorship in their work.*
- 2006-present
- Mentoring as Associate Program Director, Director of Ambulatory Education, Director of Preliminary Internal Medicine Track
Mentoring committee member
- 2009-present
- Neda Frayha, MD
Mentoring as Associate Program Director (2009-2011) and Assistant Dean, Office of Student Affairs (2011-present)
Mentoring committee member
- 2011-present
- Kathryn N. Silva, MD
Mentoring as Associate Program Director
Mentoring committee member
- 2013-present
- Bernadette Siaton, MD
Co-director, Introduction to Clinical Medicine-2
Clinical Scholar Education Award, Rheumatology Research Foundation
- 2013-present
- Elizabeth Lamos, MD
Mentoring committee member
- 2014-present
- Rana Malek, MD
Fellowship program director
Mentoring committee member
- 2012-present
- Philip C. Dittmar, MD
Mentoring as Associate Program Director, Director of Internal Medicine Subinternship, Assistant Internal Medicine Clerkship Director
Mentoring committee member
- 2015-present
- Leah Millstein, MD
Assistant Program Director, Med-Peds Residency Program
Mentoring committee member

Curriculum and Evaluation

- 1983-1992
- Comprehensive curriculum for residents in preoperative risk assessment and perioperative management of medical problems.
- 1992-present
- Curriculum for internal medicine residents to enhance their teaching and leadership skills in the residency training program.
- 1994-2010
- New combined residency training program in Medicine-Pediatrics (in collaboration with Dr. Carol Carraccio)

1996-2006	New combined residency training program in Medicine-Emergency Medicine
2001-present	Web accessible competency-based written curriculum for residency education in internal medicine.
2001-present	Web-based evaluation system (E-Value) utilizing competency based objectives and rotation specific goals for all resident rotations in internal medicine at all levels of training.
2001-present	Competencies for medical student clerkships and internal medicine residents, with latter based on the six required competencies of the Accreditation Council for Graduate Medical Education (ACGME).
2001-present	Web based curriculum in palliative care and end of life issues
2002-2005	Developed web based curriculum in cultural competency in collaboration with Dr. Carol Carraccio in Pediatrics.
2004-present	Enhanced evidence based curriculum for internal medicine residents.
2005-present	Developed palliative care and end-of-life curriculum (conferences and web-based) for internal medicine resident; competency based evaluation process based on ACGME competencies and direct observation
2009	EPEC Trainer (Education in Palliative and End-of-Life Care), Chicago, IL
2012-present	Advisor in development of on-line education modules in Rheumatology as created by Bernadette Siaton, MD

GRANT SUPPORT

Current

Effective Dates:	2014-present
Role:	Site Director
% Effort:	5% in-kind effort
Principal investigators:	Sanjay Desai (Hopkins), Joel Katz (Brigham and Women's Hospital) and Lisa Bellini (University of Pennsylvania)
Project title:	iCOMPARE. Multicenter randomized trial examining the impact of resident duty hours on clinical patient outcomes
Funding Agency:	American Council of Graduate Medical Education
Type of grant:	Agency
Current Direct Costs:	None

Completed

Effective Dates:	7/1/2007-6/30/2012 (5 years)
Role:	Co-investigator
% Effort:	10%

Principal investigator: Douglas Ross, MD, PhD
Project title: Hospice educational program for the school of medicine
Funding agency: National Cancer Institute, grant R25CA66940 (peer-reviewed)
Type of grant: R25E (educational)
Current Year Costs: \$199,620 (direct), \$15,970 (indirect)
Total Direct Costs: \$1,074,469
Total Indirect Costs: \$85,958

Effective Dates: 7/1/2010 - 6/30/2011
Role: Principal Investigator
% Effort: 10%
Project title: Empowering patients to optimize their medication regimens:
A multidisciplinary approach.
Funding agency: Picker Institute
Type of grant: Foundation
Current Year Costs: \$25,000
Total Direct Costs: \$22,727
Total Indirect Costs: \$ 2,273

Funded through the Picker Institute, only 10 grants were awarded nationally though this peer reviewed competition.

Effective Dates: 7/1/87-6/30/89
Role: Faculty fellow
% Effort: 20% (estimated; records no longer available from 1989)
Principal investigator: Marguerite Moran, MD, Division of General Internal Medicine
Project title: Faculty Development in Primary Care (#02521579)
Funding agency: Department of Health and Human Services, U.S. Public Health Service (peer reviewed)
Type of grant: Faculty development
Total Direct Costs: Unknown - records not available from this time period
Total Indirect Costs: Unknown
Effective Dates: 7/1/99-6/30/02
Role: Director, Curriculum Development and Evaluation
% Effort: 15%
Principal investigator: Carol Carraccio, MD
Project title: Residency training in medicine-pediatrics
Funding agency: Health Resources and Services Administration (peer reviewed)
Type of grant: Collaborative training grant
Total Direct Costs: \$450,000
Total Indirect Costs: \$36,064

Effective Dates: 9/1/00-8/31/03
Role: Principal Investigator
% Effort: 25%
Project title: Academic administrative unit for primary care education, grant # 1D28PE10239-01
Funding Agency: Health Resources and Services Administration (peer reviewed)
Type: Collaborative training grant
Total Direct Costs: \$1,030,410
Total Indirect Costs: \$82,433

Effective Dates: 7/1/01-6/30/07
Role: Co-Investigator
% Effort: 5% support (2001-2005), 10% support (2005-2007)
Principal investigator: Douglas Ross, MD, PhD
Project title: Competency Training Program in Palliative and End-of-Life Care for Internal Medicine Residents and Oncology Fellows; Hospice Educational Program for the School of Medicine
Funding agency: National Cancer Institute, R-25 National Institute of Health, grant #R25CA66940 (peer reviewed)
Type of grant: R25E - Collaborative training grant for residents and fellows
Total Direct Costs: \$958,855
Total Indirect Costs: \$76,708
This grant is a continuation of R25E-funded work that began in 1994 to design, implement, evaluate and institutionalize comprehensive educational programs in palliative and end-of-life care at the University of Maryland School Of Medicine.

Effective Dates: 7/1/2002-6/30/2005
Role: Co-Principal Investigator for Internal Medicine, Carol Carraccio, MD - Project Director and Principal Investigator for Pediatrics (based on HRSA policy for collaborative grants there is one PI per discipline)
% Effort: 8%
Type: Collaborative Training Grant
Project title: Residency Training in Medicine-Pediatrics, grant # 1D28PE10239-01
Funding Agency: Health Resources and Services Administration (peer reviewed)
Total Direct Costs: \$316,744
Total Indirect Costs: \$25,340

Effective Dates: 7/1/05-6/30/09
Role: Principal Investigator
% Effort: 5% support (year 1), 0% support (year 2), 5% support (year 3)
Type: Collaborative education grant
Project title: Collaborative Faculty Development Grant (Medicine and Pediatrics)
Funding Agency: Health Resources and Services Administration (peer reviewed)
Current Year Costs: \$222,513 (direct), \$18,041 (indirect)
Total Direct Costs: \$930,499 (\$264,712 for year 1)
Total Indirect Costs: 74,439 (\$21,129 for year 1)

PUBLICATIONS

Books

1. Wolfsthal SD (editor): Medical Perioperative Management '89/'90. Appleton & Lange, Norwalk, CT, 1989:449 pp.
Recognized and recommended by the American College of Physicians as an essential book in an internist's library.
¹ *Ludmerer KM. A library for internists VII: Recommendations from the American College of Physicians. Ann Intern Med 1991;114:811-832.*
² *Mazza JJ. A Library for internists VIII: Recommendations from the American College of Physicians. Ann Intern Med 1994;120:699-720*

2. Wolfsthal SD (editor): National Medical Series -Medicine. 6th Edition. Lippincott, Williams and Wilkens, Baltimore, MD. 2007:672 pp.
Review text book for medical students and residents. Comprehensive review of internal medicine with case studies and comprehensive questions, authored by subspecialists and – for the first time – by chief residents and senior residents in internal medicine. 670 pages plus on-line material.
3. Wolfsthal SD (editor): National Medical Series -Medicine. 7th Edition. Lippincott, Williams and Wilkens, Baltimore, MD. 2012:712 pp.
Review text book for medical students and residents. Comprehensive review of internal medicine with case studies and comprehensive questions, authored by subspecialists and by chief residents and senior residents in internal medicine. 712 pages plus on-line material.

Chapters

1. Wolfsthal SD. Introduction. In: Wolfsthal SD (ed.) Medical Perioperative Management '89/'90, 1-4, Appleton & Lange, Norwalk, CT, 1989.
2. Wolfsthal SD. Risk assessment. In: Wolfsthal SD (ed.) Medical Perioperative Management '89/'90, Section I, Chapter 1, Appleton & Lange, Norwalk, CT, 1989.
3. Wolfsthal SD, Foxwell MM. Prophylaxis and diagnosis of thromboembolic disease. In: Wolfsthal SD (ed.) Medical Perioperative Management '89/'90, Section I, Chapter 12, Appleton & Lange, Norwalk, CT, 1989.
4. Wolfsthal SD. The orthopedic surgical patient. In: Wolfsthal SD (ed.) Medical Perioperative Management '89/'90, Section II, Chapter 19, Appleton & Lange, Norwalk, CT, 1989.
5. Wolfsthal SD. The patient undergoing vascular repair. In: Wolfsthal SD (ed.) Medical Perioperative Management '89/'90, Section II, Chapter 20, Appleton & Lange, Norwalk, CT, 1989.
6. Schultz HJ, Schuster B, Wolfsthal SD. Job description of the internal medicine residency program director. APDIM Program Director's Manual, 8th Edition. Accessed 4/22/04
<http://www.im.org/APDIM/members/only/pm02/1.2.pdf>.
7. Wolfsthal SD, Call S, Wood V, Schultz H. Job description of the internal medicine residency program director. APDIM Program Director's Manual, 9th Edition. Accessed 7/06.
<http://www.im.org/AAIM/Pubs/Docs/TIMEPTOC.pdf>
8. Wolfsthal SD, Call S, Hong J, Wood V. Job description of the internal medicine residency program director. The Toolkit Series. A Textbook for Internal Medicine Education Programs. APDIM, 10th Edition, 2010.
9. Cina M, Wolfsthal SD. The internist's approach to patient care. In: Wolfsthal SD (editor): National Medical Series -Medicine. 7th Edition. Lippincott, Williams and Wilkens, Baltimore, MD. 2012:1-16.
10. Wolfsthal SD, Call S, Wood V. Job description of the internal medicine residency program director. The Toolkit Series. A Textbook for Internal Medicine Education Programs. APDIM, 11th Edition, 2013:10-20.

Journal Articles (Peer Reviewed)

1. Wolfsthal SD, Hooper FJ, Parker DL. Ambulatory block rotations: A solution for enhanced training in primary care for traditional residency programs. Educational Clearinghouse for Internal Medicine. Fourth Edition. Association of Program Directors in Internal Medicine (APDIM), 1996:1.
2. Parker DL, Wolfsthal SD. Training in community service and public health for internal medicine residents. *Acad Med* 1997;72:448.
3. Bowen JL, Leff L, Smith LG, Wolfsthal S. Beyond the mystique of prestige: measuring the quality of residency programs. *Am J Med* 1999;106:493-8.
4. Klessig JM, Wolfsthal SD, Levine MA, Stickley W, Bing-You RG, Lansdale TF, Battinelli DL. A pilot survey study to define quality in residency education. *Acad Med* 2000;75:71-73.
5. Wolfsthal SD, Beasley BW, Stickley W, Kopelman R, Gabryel T, Kahn MJ, Edmond M, Kennedy JI, Kane G, Broder M, Donovan K, Ferguson R, Lightfoot R, Williams S, Rook C. Benchmarks of support in internal medicine residency training programs. *Acad Med* 2002;77:50-56.
6. Carraccio C, Wolfsthal SD, Englander R, Ferentz K, Martin C. Shifting paradigms. From Flexner to competencies. *Acad Med* 2002;77:361-367.
Recognized by Academic Medicine as being cited over 50 times since 1990 (through the ISI Web of Science database) in their AM Classics collection of the Association of American Medical Colleges (AAMC), October 2010.
<http://journals.lww.com/academicmedicine/pages/collectiondetails.aspx?TopicalCollectionId=10>
7. Carraccio C, Englander R, Wolfsthal SD, Martin C, Ferentz K. The pediatrician of the 21st century: Defining and implementing a competency-based system. *Pediatrics* 2004;113:252-258.
8. Ross DD, Shpritz D, Alexander CS, Carter K, Edelman MJ, Friedley N, Hemani A, Keay TJ, Roy SC, Silverman H, Tasker DJ, Timmel D, Schwarz J, Wolfsthal SD. Development of required postgraduate palliative care training for internal medicine residents and medical oncology fellows. *J Cancer Educ* 2004;19:81-87.
9. Friedman D, Wolfsthal SD. Cocaine-induced pseudovasculitis. *Mayo Clin Proc* 2005;80:671-673.
10. Martin C, Carraccio C, Wolfsthal SD, San Juan R, Martello M. Medicine and pediatric web-based, cross cultural educational treatment modules assessing professionalism. *MedEdPORTAL*; 2005. Available from: <http://www.aamc.org/mededportal>, ID = 147.
11. Ross DD, Wolfsthal SD. Palliative and end-of-life care for medical residents. *MedEdPORTAL*; 2007. Available from: <http://www.aamc.org/mededportal>, ID = 9814.
12. Ross DD, Shpritz DW, Wolfsthal SD, Zimrin AB, Keay TJ, Fang H, Schuetz CA, Stapleton LM, Weissman DE. Creative Solution: How to implement experiential, competency-based palliative care training for internal medicine residents. *J Cancer Educ*. 2011;26:436-443. PMID:21553329
13. Comer A, Harris AD, Shardell M, Braun B, Belton B, Wolfsthal SD, Dembry LM, Jacob JT, Price C, Sulis C, Ziao Y. Web-based training improves resident knowledge about central line bloodstream infections. *Attaining Safety for Patients through interdisciplinary Risk Reduction Efforts (ASPIRRE)*

Group. *Infect Control Hosp Epidemiol* 2011;32(12):1219-1222.
<http://www.jstor.org/stable/10.1086/662585>. PMID:22080663

14. Wolfsthal SD. Use of entrustable professional activities and the amount of supervision required in determining resident achievement of milestones. Curated Milestones Evaluation Exhibit. Peer review selection by the Education Committee of the Alliance of Academic Internal Medicine (AAIM) as one of 16 superlative instruments of “best practices.” <http://www.im.org/p/cm/ld/fid=1388>. Accessed 3/29/2016.
15. Frayha N, Bontempo L, Retener NF, Teshome G, Wolfsthal SD, Lewin LO. Core Entrustable Professional Activities: A Survey of the Confidence of Fourth Year Medical Students and Residency Program Directors. *Med Sci Educ*.2016;26:475-480. DOI 10.1007/s40670-016-0264-5. (PMID pending).
16. Millstein LS, Wolfsthal SD, Frayha N, Southall N, Lamos E, Choy C, Habicht R. Empowering patients to optimize their medication regimens: A multidisciplinary approach. *Submitted*.
17. Silva NS, Wolfsthal SD, Southall N, Dittmar P. Use of Entrustable Professional Activities (EPAs) and the Amount of Supervision Required in Determining Resident Achievement of Milestones. *In progress*.

Journal Articles (Invited)

1. Weir MR, Wolfsthal SD. Hypertension and the kidney. *Prim Care* 1991;18:525-544.
2. Wolfsthal SD. Is blood pressure control necessary prior to surgery? *Med Clin North Am*. 1993;77:349-363.
3. Wolfsthal SD. Clinicopathologic conference. A 56 year old man with progressive dysphagia, dysarthria and ataxia. *Maryland Med J* 1996;45:933-937.
4. Wolfsthal SD, Manno R, Fontanilla E. Emergencies in the diabetic patient. In: Rogers R, Martinez J (eds.) Emergencies in Primary Care. *Prim Care*. 2006 Sep;33(3):711-25.

Letters to the Editor

1. Wolfsthal SD, Wisner TH. Chlorpropamide and an antabuse-like reaction (letter). *Ann Intern Med* 1985;103:158.
2. Wolfsthal SD. In-training examination in internal medicine (letter). *Ann Intern Med* 1995;122:73.
3. Rinder MR, Richard RE, Wolfsthal SD. STRIP IT! A method to teach residents cost-effective test ordering (letter). *Am J Med* 1996;101:327-8.

Video

1. Merli GJ, Wolfsthal SD. Guide to bedside diagnostic procedures in internal medicine. Thoracentesis. *IM Internal Medicine, Medical Economics*, Montvale, NJ, 1996.

Abstracts (Published and presented)

1. Wolfsthal SD. The clinical characteristics and perioperative blood pressure lability in hypertensive patients referred for preoperative medical evaluation. Mid-Atlantic Regional Society of General Internal Medicine, February 1989, Baltimore, MD. Clin Res 1989; 37(2):804A.
2. Bartman BA, Wolfsthal SD, Fairchild ES, Clancy C. Residents' role perceptions in delivering health care to women. National Meeting of the Society of General Internal Medicine, April 1993, Washington, DC. Clin Res 1993; 41:444A.
3. Fairchild ES, Wolfsthal SD, Bartman BA. Assessment of residents' delivery of preventive health services to women. National Meeting of the Society of General Internal Medicine, Washington, DC, April 1993. Clin Res 1993; 41:556A.
4. Fairchild ES, Bartman BA, Wolfsthal SD. Teaching women's health in internal medicine residencies: Evaluation of a curriculum. National Meeting of the Society of General Internal Medicine, Washington, DC, April 1994. J Gen Intern Med 1994; 9:75.

Abstracts (Presented)

1. Wolfsthal SD. The effect of early preoperative medical consultation on cardiovascular outcomes among elderly hypertensive patients. American Geriatrics Society, May 1989, Boston, MA.
2. Wolfsthal, SD, Schreiber JB, Meyerhoff JO, Wertheimer DS, Fairchild ES and Calia FM. Incorporation of specialists in a clinical ambulatory curriculum for first year residents. Fifth Biennial National Symposium for Teaching Internal Medicine, November 1989, Boston, MA.
3. Shochet RB, Ehrenreich M, Siegal M, and Wolfsthal SD. The medical interview assessment scale (MIAS): Utility in evaluating and monitoring progress in resident interview performance. Regional Meeting of the Society of General Internal Medicine, March 1991, New York, NY.
4. Wolfsthal SD, Hooper FJ. Institution of an ambulatory block rotation in a traditional medical residency program. Sixth Biennial National Symposium for Teaching Internal Medicine, Chicago, IL, October 1991
5. Martin C, Carraccio C, Wolfsthal SD, Englander R, Ferentz K. A collaborative program for primary care education. Annual Meeting of the Ambulatory Pediatric Association, Baltimore, MD, May, 2002.
6. Martin C, Carraccio C, Wolfsthal SD, Englander R, Ferentz K. A collaborative program for primary care education. Annual Meeting of the Association of American Medical Colleges: Innovations in Medical Education, San Francisco, November 2002.
7. Ross D, Alexander C, Carter K, Edelman M, Friedley N, Hull M, Keay T, Roy S, Timmel D, Hemani A, Silverman H, Tasker D, Wolfsthal SD. Development of required postgraduate palliative care training for internal medicine residents. American Association for Cancer Education. Annual Meeting, Toronto, October 2002.
8. Martin C, Martello M, Wolfsthal S, Carraccio C. Web-based modules for cross-cultural efficacy in medicine and pediatrics. Association of American Medical Colleges: Innovations in Medical

- Education, San Francisco, November, 2002.
9. Wolfsthal SD, Akom MC, Koshy SS, Jablonover M, Stewart RS, Domenici LJ. Meeting RRC duty hour requirements through a hospitalist-based team call system. Association of Program Directors in Internal Medicine, Washington, DC, October 2003.
 10. Ross D, Shpritz D, Alexander C, Carter K, Edelman M, Friedley N, Hemani A, Keay T, Roy S, Silverman H, Tasker D, Timmel D, Wolfsthal S. Evaluation of a web-based course in end-of-life care for internal medicine residents. American Academy of Cancer Education, Little Rock, AK, October 2003.
 11. Martin C, Wolfsthal SD, Carraccio C, Arroyo S. Development and reliability of an assessment tool of resident competence in interpersonal and communication skills. AAMC Annual Meeting, Washington, DC, November 2003.
 12. Ross D, Alexander C, Carter K, Edelman M, Friedley N, Hull M, Keay T, Roy S, Timmel D, Hemani A, Silverman H, Tasker D, Wolfsthal SD. Evaluation of a required postgraduate palliative care training for internal medicine residents. American Association for Cancer Education. Annual Meeting, Baltimore, MD, October 2004.
 13. Ross DD, Goloubeva O, Shpritz D, Wolfsthal SD. Mandatory web based end-of-life care training program for internal medicine residents – Evaluation of our experience with the resident classes of 2005, 2006 and 2007. European Association for Cancer Education. Birmingham, UK, April 2005.
 14. Moore KM, Wolfsthal SD. Hemodialysis catheter associated right atrial thrombus and pulmonary embolus. Maryland Meeting of the American College of Physicians, Baltimore, MD, May 2007.
 15. Ross DD, Wolfsthal SD, Shpritz D. Progress on implementing a strategy for experiential, competency-based palliative and end-of-life care training for internal medical residents and medical oncology fellows. American Association for Cancer Education. Annual Meeting, Clearwater, FL, October 2008.
 16. Benitez RM, Southall N, Wolfsthal SD, Galliatsatos L, Lewis R. A novel method for assessment of resident competency of electrocardiographic interpretation with linked guide to self-improvement. Annual Meeting of the Alliance of Academic Internal Medicine, Orlando, FL, October 2008.
 17. Lebron RJ, Ravi S, Wolfsthal SD. Cardiac cirrhosis. Maryland Meeting of the American College of Physicians, Baltimore, MD, May 2010.
 18. Ross DD, Shpritz DW, Wolfsthal SD, Zimrin AB, Keay TJ, Fang H, Schuetz C, Stapleton LM, Weissman DE. Implementation of experiential, competency-based palliative and end-of-life care training for internal medical residents and medical oncology fellows. 2010 International Cancer Education Conference of the American Association for Cancer Education. San Diego, CA, October 2010. *Awarded 1st place in the research competition.*
 19. Wolfsthal SD. Empowering patients to optimize their medication regimens: A multidisciplinary approach. Picker Institute Always Events Learning Network Webinar. Presented December 15, 2011.
 20. Wolfsthal SD, Millstein LS, Choy C, Lamos EM, Frayha N, Cina ME, Habicht R, Southall N, Gibson K. Empowering patients to optimize their medication regimens: A multidisciplinary approach.

Spring meeting of the Association of Program Directors in Internal Medicine, Atlanta, April 2012.

21. Frayha N, Bontempo L, Retener N, Teshome G, Wolfsthal S, Lewin L. Core entrustable professional activities for starting residency: How confident are students and program directors? Academic Internal Medicine Week 2015 (AIMW15), Atlanta, October, 2015.

LECTURES / CONFERENCES / WORKSHOPS

Graduate Medical Education Conferences, Department of Medicine, University of Maryland

1. Annual Education Retreat for Residents. Workshops (2/year). Giving effective feedback, small group teaching, conflict resolution, team building, careers in academic medicine, time management, adult learning theory and applying for jobs in primary care and hospitalist medicine. 1997 – present.
2. Daily Morning Report conferences. Case presentations, discussion and analysis. 1992 – present.
3. The Boosters Series. Workshops on key resident skills, such as conflict resolution, small group teaching, and managing patient care on the telephone, among others. 1994 – 1997.
4. Workshop on evaluating resident's score in In-Training Examination and approach to studying for the certifying examination in internal medicine (~2000-present)
5. Workshop on process and strategies for applying for internal medicine fellowships (~2000-present)
6. Workshop on interviewing for internal medicine fellowships (~2000-present)

Faculty Development Conferences, Department of Medicine, University of Maryland

1. Faculty Development Series on teaching skills, time management, giving effective feedback, and conflict resolution. 2003 – present.
2. Faculty Development Seminars on variety of topics: Writing letters of recommendation, giving effective feedback. 2005 – present.
3. Faculty Development for Fellowship Program Directors. Multiple workshops on understanding, creating and implementing the ACGME Milestones. 2013-2015.
4. Faculty Development for Fellowship Program Directors. Maximizing your use of ERAS and Interview Broker for success in recruiting new fellows. 2016.

Medical Grand Rounds, Department of Medicine, University of Maryland

1. Prophylaxis of postoperative venous thrombosis, March 1985.
2. Polycythemia, February 1986.
3. Risk assessment and perioperative management of hypertension, June 1987.
4. Systolic hypertension, June 1989.
5. The elusive alcoholic: Diagnosis and Approach to management, October 1990.
6. Prophylaxis and management of thromboembolism, May 1990.
7. Systolic hypertension: Rationale for treatment, February 1992.
8. Medical perioperative management, May 1993.
9. Impact of health care reform on graduate medical education, May 1994.
10. Medical problems during pregnancy, May 1995.
11. The art of medical consultation and preoperative risk assessment, October, 2000.

Morbidity and Mortality Rounds, Department of Medicine, University of Maryland

1. An elderly man with prostatic obstruction and severe COPD. Perioperative management, January 1987.
2. Perioperative management. 44 year old woman with diabetes, heart failure and hypertension, January 1988.
3. A 64 year old man with hypothermia and ventricular fibrillation. A case of hypothyroidism and hypoparathyroidism, September 1989.
4. Preoperative evaluation and perioperative management of hypertension, March 1992.

Clinicopathologic Conference, Department of Medicine, University of Maryland

1. An elderly man with cirrhosis, weight loss and a hemorrhagic pleural effusion. A case of undiagnosed pulmonary embolism, February 1991.
2. Chylous ascites. A case of non-Hodgkin's lymphoma, December 1992.
3. Elderly man with lethargy and hypothermia, September 1992.
4. 53 year old man with hypercalcemia, weight loss, anemia and hypergammaglobulinemia, August 1994.
5. 56 year old man with progressive dysphagia, dysarthria and ataxia. Subacute cerebellar degeneration presenting as a paraneoplastic syndrome in small cell carcinoma of the lung, October 1995.
6. 62 year old women with atrial fibrillation, pericarditis and a stroke, October 1997.
7. 48 year old man with back pain and cord compression, October 1998
8. 42 year old woman with hepatitis and a bleeding diathesis. Hepatitis C and Christmas Disease in a woman with Turner's syndrome, October 1999.
9. 48 year old man with a headache and Horner's syndrome. Carotid artery dissection, September 2004.
10. 47 year old man with abdominal pain, anemia, wrist drop and a sweet taste. Chronic lead poisoning, April 2007.
11. 49 year old man with anuric renal failure, hyperbilirubinemia and enlarged kidneys. Leptospirosis, March 2008.
12. 72 year old woman with pulmonary infiltrates, hemoptysis and glomerulonephritis. Microscopic polyangiitis. March 2010.

Ambulatory Care Seminars, University of Maryland Hospital, Baltimore, MD

1. Health maintenance and cancer screening, September 1986.
2. Myopathy in an elderly woman: A diagnostic approach, June 1989 and May 1990.
3. Perioperative issues in the elderly, March 1991.
4. Preparing the outpatient for surgery, June 1991.
5. Getting the outpatient ready for surgery, October 1993.
6. Professionalism in the ambulatory setting, March 1996.

Medical Resident Lectures, University of Maryland Hospital, Baltimore, MD

1. Hyperthermia, 1984-1986.
2. Emergency management of seizures, July 1986.
3. Teaching residents how to teach, May 1987.

Medical Student Lectures, Department of Medicine, University of Maryland, Baltimore, MD

1. Seizure disorders, 1984-1989.
2. Patient interviewing techniques, February 1985.

Other Medical Student Lectures and Workshops

1. Strategies for Applying to Internal Medicine Residency Programs. Workshop for senior medical students. Annually 1993-present.
2. Graduate Medical Training: Clinical and research training opportunities beyond medical school, July 1996, 1997, 1998, 1999, 2003
3. Internal Medicine as a Primary Care Discipline. Keynote speaker at Primary Care Day. University of Maryland School of Medicine. November, 1997
4. Professionalism in Your Clinical Training. White Coat Ceremony. University of Maryland School of Medicine. December 1997.
5. Profile of an Internist. Careers in Internal Medicine. Workshop for medical students. Recurring 2009-2011.
6. Preparing to Apply for Residency. Office of Student Affairs Workshop. University of Maryland School of Medicine. Fall 2013-present.

7. Living in the Team Room. Humanism Symposium. University of Maryland School of Medicine, March 2014.
8. Humanism in Medicine. Humanism Symposium. University of Maryland School of Medicine, November 2014.

Invited Speeches and Workshops

1. Hyperthermia. Franklin Square Hospital Center, Baltimore, MD, July 1986.
2. Perioperative risk management. Doctor's Hospital, Lanham, MD, October 1987.
3. Perioperative management of hypertension and diabetes. Harbor Hospital Center, Baltimore, MD, February 1989.
4. Perioperative management of hypertension and diabetes. St. Agnes Hospital, Baltimore, MD, May 1989.
5. Predictors of perioperative blood pressure lability. Research Seminar, Uniformed Services University of the Health Sciences, Rockville, MD, January 1990.
6. Perioperative management of common medical problems. Good Samaritan Hospital, Baltimore, MD, February 1990.
7. Hypertension for the neurologist: An approach to treatment. Department of Neurology. University of Maryland, Baltimore, MD, May 1992.
8. Risk assessment and perioperative management of hypertension. York Hospital, York, PA, August 1992.
9. Medical preoperative risk assessment. Annual Meeting of the Maryland Chapter of the American College of Physicians, Baltimore, MD, December 1992.
10. Medical perioperative management. Greater Baltimore Medical Center, Baltimore, MD, June 1992.
11. Principals of preoperative risk assessment. Perioperative issues for the medical practitioner. Howard County General Hospital and the University of Maryland Medical Center, June 1996.
12. The art of medical consultation and perioperative risk assessment. Second Annual CME Symposium. Practical Skills for the Primary Care Provider. Easton, MD, November 1998.
13. Medical consultation and preoperative risk assessment. Medical Grand Rounds. Union Memorial Hospital Baltimore, MD, March, 2000.
14. Perioperative risk assessment. York Hospital, York, PA, Fall 2000.
15. Duty hours and clinical competency in graduate medical education. Medical Grand Rounds, Mercy Medical Center, Baltimore, MD, September 2003.
16. Moderator, Perioperative Risk Assessment. A Roundtable Discussion. Scientific Meeting of the Maryland ACP-ASIM, February 2007.
17. Leadership in Residency Education. Plenary session. Spring meeting of the Association of Program Directors of Internal Medicine, New Orleans, LA. April, 2008.
18. Learning from Rookie Mistakes. Panel discussion as part of APDIM Spring Precourse: Leading the next generation: instilling passion, ethics, and ownership. Spring meeting of the Association of Program Directors of Internal Medicine, Baltimore, MD. April 2010.
19. Learners in Need: Principles of Diagnosis and Remediation. 2012 CDIM-APDIM Joint Precourse. Phoenix, AZ. October 2012.
20. What Are Your Interns Doing with Their Time? Workshop for Spring Meeting of the Association of Program Directors in Internal Medicine. Orlando, FL, April 2013.
21. Training the Spectrum of Learners in Need: From Diagnosis and Remediation. Faculty panel and case discussion. 2014 CDIM-APDIM Joint Precourse, Washington, DC. September 2014.
22. Implementation of ACGME Milestones Using E-Value. Focus group. APDIM Spring meeting, Nashville, TN. April 2014.
23. Current Trends and Innovations in Medical Education. Medical Grand Rounds. Mercy Medical Center. September 2015.

24. Process and Challenges in Mapping Milestones to the EPAs (Entrustable Professional Activities). Lecture and panel discussion. Society of Academic Anesthesiology Associations, Baltimore, MD. November 2015.

CME Course Lectures and Workshops

1. The role of the consultant. Medical Perioperative Management. University of Maryland School of Medicine. November 1987 and November 1988.
2. Perioperative prophylaxis of thromboembolic disease. Medical Perioperative Management. University of Maryland School of Medicine. November 1987, 1988.
3. Problems in thromboembolism. (Workshop). Medical Perioperative Management. University of Maryland School of Medicine. November 1988.
4. The Consultative process. Medical Consultation and Management in the Perioperative Period. University of Maryland School of Medicine. October 1991.
5. Hypertension. (Lecture and Workshop). Medical Consultation and Management in the Perioperative Period. University of Maryland School of Medicine. October 1991.
6. Thromboembolic disease. Medical Consultation in the Perioperative Period. University of Maryland School of Medicine. October 1991.
7. Medical consultation and perioperative risk assessment. Update in Internal Medicine. Department of Medicine. University of Maryland School of Medicine, June 2001, 2002, 2003.

Interviews

1. ACP-ASIM Observer, American College of Physicians. "For some students, medical school just isn't enough." September 1998. Accessed <http://www.acpinternist.org/archives/1998/09/degrees.htm>.
2. Voice of America. "US seeks more foreign doctors, medical students." Broadcast November 24, 2006. Accessed <http://www.voanews.com/english/archive/2006-11/2006-11-24-voa61.cfm>.
3. New York Times. "2 doctors held in British bomb plot had looked to U.S." Published July 6, 2007. Accessed <http://www.nytimes.com/2007/07/07/world/europe/07britain.html?ex=1341460800&en=ff5b620630de77bd&ei=5088&partner=rssnyt&emc=rss>.
4. Speaking with Leaders. Insight publication of the Alliance of Academic Internal Medicine. May 2016.