

**Harvard Medical School
CURRICULUM VITAE**

Date Prepared: January 7, 2023

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Place of Birth: Evanston, IL

Education:

1980	B.S. Summa cum laude	Biochemistry	University of California, Los Angeles
1984	M.D.	Medicine	University of California, San Francisco
2015	M.A. (Honorary)	Medicine	Harvard University

Postdoctoral Training:

1984-1985	Intern	Medicine	Beth Israel Hospital, Boston
1985-1987	Resident	Medicine	Beth Israel Hospital, Boston

Faculty Academic Appointments:

1987-1999	Instructor	Medicine	Harvard Medical School
1999-2002	Assistant Professor	Medicine	Harvard Medical School
2002-2013	Associate Professor	Medicine	Harvard Medical School
2013-	Professor	Medicine	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions:

Past:

1987-1996	Associate in Medicine	Medicine Division of General Medicine and Primary Care	Beth Israel Hospital
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Current:

1996-	Active staff	Medicine Division of General Medicine and Primary Care	Beth Israel Deaconess Medical Center
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Other Professional Positions:

2000	Consultant, selected topics and identified authors for chapters on perioperative medicine	UpToDate, Wellesley, MA
2003-	Core Teaching Faculty	American College of Physicians Philadelphia, PA
2005-2008	Consultant, Harvard Imaging Expert Panel	Safe Med, San Diego, CA

Major Administrative Leadership Positions:**Local:**

1987-1992	Director, Inpatient Medical Consultation Service	Beth Israel Hospital, Department of Medicine
1988-1995	Director, Primary Care Seminar	Beth Israel Hospital, Division of General Medicine and Primary Care
1992-2002	Herrman L. Blumgart Associate Firm Chief	Beth Israel Hospital, Department of Medicine
1995-1997	Co-Director, Primary Care for the Obstetrician Gynecologist (CME program)	Harvard Medical School, Department of Continuing Education
1996-1999	Co-Chair, Academic Promotion Working Group	Harvard Medical School, Teacher-Clinician Initiative Primary Care Division
1996-2009	Chair, Managed Care Working Group	Beth Israel Deaconess Medical Center Division of General Medicine and Primary Care
2004-2010	Co-Director, Hypertension: Evidence Based Treatment and Clinical Challenges (CME Online program)	Harvard Medical School, Department of Continuing Education
2004-2010	Director, Continuing Medical Education	Beth Israel Deaconess Medical Center Division of General Medicine and Primary Care
2010-	Director, Harvey Picker Fellowship for Evidence Based Medicine in Primary Care	Beth Israel Deaconess Medical Center Division of General Medicine and Primary Care
2011-	Director, Prevention in Primary Care Practice: Pearls and Pitfalls (CME program)	Harvard Medical School, Department of Continuing Education
2017-	Member, General Medicine Rounds Steering Committee	Beth Israel Deaconess Medical Center Division of General Medicine and Primary Care

National and International:

2004-2006	Course Director, Advances in Clinical Practice: Diagnosis and Treatment	Harvard Medical International Montreux and Lucerne, Switzerland
2006-2013	Associate Course Director, Current Clinical Issues in Primary Care	Harvard Medical School, Department of Continuing Education
2011-2014	Director, Collaborative Continuing Medical	U.S. Centers for Disease Control and

	Education Programs, Ho Chi Minh City and Hanoi, Vietnam	Prevention (CDC), President's Emergency Plan for AIDS relief (PEPFAR), and Harvard Medical School
2013-2014	Executive Planning Committee, Clinical Crossroads Series, JAMA	Beth Israel Deaconess Medical Center Department of Medicine, Journal of the American Medical Association
2015-	Series Assistant Editor, Beyond the Guidelines, Ann Intern Med	Beth Israel Deaconess Medical Center, Annals of Internal Medicine

Committee Service:**Local:**

1987-2005	Intern Selection Committee	Beth Israel Deaconess Medical Center Department of Medicine, Member
1992-2003	Quality Assurance Committee	Beth Israel Deaconess Medical Center Department of Medicine, Member
1992-2002	Clinical Competency Committee, Medical Residency Program	Beth Israel Deaconess Medical Center Department of Medicine, Member
1994-2001	<u>Teacher Clinician Initiative</u>	Harvard Medical School, Primary Care Division
	1994-2001	Site Coordinator
	1996-2001	Academic Promotion Working Group
1995-2009	Primary Care Physician Advisory Group	Beth Israel Deaconess Physician Organization, Member
1997-1999	Online Curriculum Vitae Project	Harvard Medical School, Advisor
1997-1998	Picker Patient Satisfaction Team	Beth Israel Deaconess Medical Center Member
1999-2000	Patient Care Assessment Committee	Beth Israel Deaconess Medical Center Department of Medicine, Member
2000-2002	Faculty Development Committee	Beth Israel Deaconess Medical Center Carl J. Shapiro Institute for Education and Research, Member
2002-2003	Diabetes Care Committee	Beth Israel Deaconess Medical Center Division of General Medicine and Primary Care, Member
2015-	Hypertension Practice Improvement Committee	Beth Israel Deaconess Medical Center Division of General Medicine and Primary Care, Member
2017-	Ad hoc Committee for Harvard Professorial Promotions	Harvard Medical School, Member

Regional:

1998-2001	Adult Primary Care Advisory Group	Tufts Health Plan, Waltham, MA Member
2000	Breast Care Management Algorithm	Risk Management Foundation, Cambridge MA, Consultant

National and International:

2004	Medicare Payment Advisory Commission (MedPAC), Expert Panel, Services Provided in Multiple Ambulatory Settings Project: Cataract Surgery and Brain MR Scanning Panels	RAND Corporation, Santa Monica, CA Member
2006	Consensus Agreement on Definition of Complete Remission and Relapse of Polymyalgia Rheumatica	Klagenfurt, Austria DELPHI panel member
2006-2009	Primary Prevention of Cardiovascular Disease Performance Measures Writing Committee	American College of Cardiology Foundation/American Heart Association Washington, DC, American College of Physicians Representative
2007	Quality Indicators Review Panel (pancreatic resection volume and mortality; esophageal resection volume and mortality)	Agency for Healthcare Research and Quality (AHRQ), Rockville, MD Sponsored by Center for Primary Care and Research Outcomes, Stanford University Society of General Internal Medicine Representative
2007, 2009	Research Committee	Perioperative Medicine Summit, Cleveland Clinic, University of Miami, Member
2007-2008	National Voluntary Consensus Standards for Perioperative Care, Physician and Facility Level Measures.	National Quality Forum (NQF), Steering Committee, Washington, DC, funding agency: Centers for Medicare & Medicaid Services (CMS), Member
2009	Appropriate Use of Cardiovascular Computed Tomography Rating Panel	American College of Cardiology / Society of Cardiovascular Computed Tomography, Washington, DC, American College of Physicians Representative
2011	Review Committee	European Society of Anesthesiology Guidelines for Preoperative Evaluation of the Non-Cardiac Surgery Patient, Member
2011	Appropriate Utilization of Cardiovascular Imaging in Heart Failure Rating Panel	American College of Radiology and American College of Cardiology Foundation, American College of Physicians Representative
2012	Bilateral Total Knee Arthroplasty Consensus Panel.	Convened by the Hospital for Special Surgery, New York. Member
2015-	e-Learning Platform, Topics in Prevention	European Society of Lifestyle Medicine. Governing Board
2016	Delphi Consensus on Favoured Interventions to be Within a Bundle of Care to Reduce Post-operative Pulmonary Complications (POPC) in High-Risk Groups	University of Southampton, UK. Surrey Perioperative Anesthesia, & Critical Care Collaborative Research Group

Professional Societies:

1980-1988	American Medical Association	Member
1984-	Alpha Omega Alpha, National Medical Honor Society	Member
1984-	University of California, San Francisco Alumni Association	Member
1984-	Massachusetts Medical Society	Member
1986-	<u>American College of Physicians</u>	
	1986-1988	Associate Member
	1988-1998	Member
	1998-2016	Fellow
	2016-	Master
1988-2020	<u>Society of General Internal Medicine</u>	Member
	1998-	Co-Chair, Medical Consultation Interest Group
	2003-2006	Chair, Task Force on the Research Agenda for General Internal Medicine
	2007-2008	Chair, Pre-Course Selection Committee 30 th Annual National Meeting Pittsburgh, PA
1998-	American Headache Society	Member
2006-	<u>Society for Perioperative Assessment and Quality Improvement</u>	Member
	2009-	Writing Committee
	2010-2012	Abstract Review Committee
	2010-2016	Governing Board
2015-	European Society of Lifestyle Medicine	Governing Board, e-Learning Platform

Grant Review Activities:

2009	Health Services Research Competitive Research Grant Committee, Member	Ministry of Health, Singapore
2010	Health Care Efficiency Research Programme Reviewer	Netherlands Organisation for Healthcare Research and Development, Netherlands

Editorial Activities:

Ad hoc Reviewer:

Agency for Healthcare Research and Quality
American Journal of Medicine

Annals of Internal Medicine
 Archives of Internal Medicine
 Cancer Control
 CHEST
 Health Services Research Journal
 International Journal of COPD
 JAMA
 JGIM
 Johns Hopkins Advanced Studies in Medicine
 Journal of Hospital Medicine
 Journal of Oncology
 Journal of the American College of Cardiology
 New England Journal of Medicine
 UpToDate

Other Editorial Roles:

1999-2005	Staff Medical Writer	Medscape
2001-2005	Associate Editor	American College of Physicians PIER
2004-2010	Editorial Board	Harvard Online CME
2008-2017	Advisory Board	Johns Hopkins / Society of Hospital Medicine Consultative Medicine Essentials for Hospitalists
2009-2014	Deputy Editor	Journal of General Internal Medicine (JGIM)
2011-2012	Associate Editor	Access Medicine.com. Online search tool
2013-2014	Physician Editor	Clinical Crossroads series, JAMA
2014-	Series Assistant Editor	Beyond the Guidelines series, Annals of Internal Medicine

Honors and Prizes:

1979	Honors Undergraduate Research Fellow	Associated Western Universities US Department of Energy	Scholarly achievement
1980	College Honors Program	University of California, Los Angeles	
1980	Phi Beta Kappa	University of California, Los Angeles	
1980	Sigma Xi		National Science Honorary
1980	Departmental Highest Honors in Biochemistry	University of California, Los Angeles	
1984	Regents' Scholar	University of California, San Francisco	
1984	Alpha Omega Alpha		National Medical Honor Society
1996	Herrman L. Blumgart Award	Beth Israel Deaconess Medical Center, Department of Medicine	Awarded by medical housestaff for outstanding contribution to education and professional development
1997-2000	Excellence in Workshop	Primary Care Internal Medicine	

	Teaching Award	Principles and Practice, Harvard Medical School
1997,1999	S. Robert Stone Teaching Award, Nominee	Beth Israel Deaconess Medical Center
1998	Fellowship (FACP)	American College of Physicians
2000	Education Institute Scholar	Carl J. Shapiro Institute for Education and Research at Harvard Medical School and Beth Israel Deaconess Medical Center
2002, 2004-2008	Outstanding Reviewer	Annals of Internal Medicine
2004	National Award for Scholarship in Medical Education	Society of General Internal Medicine
2004	Clifford Barger Excellence in Mentoring Award, Nominee	Harvard Medical School
2010	Top Doctor – Leading Physicians of the World	International Association of Healthcare Professionals
2011	Preceptor of the Year Award, Nominee	Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
2016	Master (MACP)	American College of Physicians
2017	Top Doctor	International Association of Internists
2019-2021	Best Doctors in America	

REPORT OF FUNDED AND UNFUNDED PROJECTS

Funding Information

Past:

1999-2001	<i>A Computer Based Virtual Patient: The Evaluation of a Patient with Headache</i> Macy Foundation Principal Investigator (\$25,000) Completed a CD-ROM and web based interactive audio and video case based teaching scenario for an intended audience of medical students
2000-2002	<i>Factors that Influence Patient Response to Requests to Change Medications to a Unified Cost Effective Formulary: A Prospective Study</i> Stoneman Center for Quality Improvement in General Medicine, Beth Israel Deaconess Medical Center Principal Investigator (\$20,000) Prospective study performed in academic primary care practice to understand patient preferences regarding medication formulary restrictions
2003-2006	<i>A Comparison of Outcomes Resulting from Generalist Versus Specialist Care for a Single</i>

Discrete Medical Condition: A Systematic Review and Methodologic Critique

Society of General Internal Medicine Grant

Principal Investigator (\$10,000)

To assess potential bias in the reporting of studies of specialist versus specialist care due to poor methodologic rigor

Current Unfunded Projects:**REPORT OF LOCAL TEACHING AND TRAINING****Teaching of Students in Courses:**

1987-	Core Clerkship in Medicine 3-4 medical students	Beth Israel Deaconess Medical Center 4 weeks per year
1987-1991	Ambulatory Medicine Clerkship One 4th-year medical student	Beth Israel Deaconess Medical Center 1-2 months per year
1993	Ambulatory Care Core Clerkship (Lecturer, Preoperative Consultation) 30 medical students	Beth Israel Deaconess Medical Center One classroom lecture
2004	HST 330 - Everything You Wanted to Know About Medicine (Workshop Leader – Hypertension) 8 medical students	Beth Israel Deaconess Medical Center 2 workshops
2005	Principal Clinical Experience Longitudinal Curriculum (Workshop Leader – Hypertension) 10 medical students	Beth Israel Deaconess Medical Center 1 workshop

Formal Teaching of Residents, Clinical Fellows and Research Fellows:

1987-2003	Medical Morbidity and Mortality (Conference Consultant) Medical interns and residents	Beth Israel Deaconess Medical Center One hour per week
1988,1990, 1992	Perioperative Medical Consultation Thorndike Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
1990	Preoperative Medical Evaluation Chief's Rounds Lecture Surgical residents and attendings	Beth Israel Deaconess Medical Center One hour lecture
1992-2002	Firm Conference Department of Medicine medical students,	Beth Israel Deaconess Medical Center One hour per week/ 4 months per year

	medical interns and residents	
1992-2002	Chief's Rounds, Inpatient Service Department of Medicine medical interns and residents	Beth Israel Deaconess Medical Center 1.5 hours per week/4 months per year
1995	Falls and Syncope in the Elderly Ambulatory Block Lecture Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
1996	Perioperative Consultation Primary Care Seminar Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
1996-2000, 2002, 2004, 2006-2007, 2012	Evaluation of Headache Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
1996-1999	Medical Intern Report Medical interns and residents	Beth Israel Deaconess Medical Center Once weekly for 6-8 weeks per year
1998	Hypertension Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
1999	Hypertension Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
1999	Preoperative Medical Evaluation Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2001	Preoperative Pulmonary Evaluation Thorndike Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2001-2002, 2005-2006, 2009	Preoperative Cardiac Evaluation Thorndike Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2002	Hypertension Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2002	Preparing Interns for Leadership Roles (Facilitator) Medical interns and residents	Beth Israel Deaconess Medical Center Two hour workshop

2003	Hypertension: Recent Evidence and Rational Therapy Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2005	Hypertension: Recent Evidence and Rational Therapy Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2007-2008; 2010-2011, 2013	New Drugs for the PCP: What You Need to Know Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2008	Hypertension: Recent Evidence and Rational Therapy Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2009-2022	How to Write a Systematic Review Medical Resident Research Elective	Beth Israel Deaconess Medical Center 2 one hour lectures each year
2012	Hypertension: Recent Evidence that Will Change Your Practice Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2013-2015	Introduction to Hypertension Management Intern Orientation Program	Beth Israel Deaconess Medical Center Two one hour lectures
2014	Preoperative Cardiac Evaluation Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2014	Treatment of Migraine in Primary Care General Medicine Grand Rounds	Beth Israel Deaconess Medical Center One hour lecture
2015	New Drugs for Primary Care Practice Ambulatory Care Conference Medical interns and residents	Beth Israel Deaconess Medical Center One hour lecture
2016	Hypertension: Challenging Cases Review Medical residents	Beth Israel Deaconess Medical Center One hour workshop
2016	Hypertension Update: Intern Orientation Series	Beth Israel Deaconess Medical Center One hour lecture

2016	Common Diagnostic Dilemmas in Primary Care Ambulatory Care Conference	Beth Israel Deaconess Medical Center One hour lecture
2017	Faculty Development Strategies for Clinician Educators. Resident panel discussion	One hour panel

Clinical Supervisory and Training Responsibilities:

1987-1992, 2003-2010	Medical Service Ward Attending Beth Israel Deaconess Medical Center	One month per year
1987-1992	Medical Consultation Elective Beth Israel Deaconess Medical Center	Eight months per year
1987-	Ambulatory Clinic Continuity Attending for Medical Housestaff, Healthcare Associates Beth Israel Deaconess Medical Center	One afternoon (4.5 hours) per week
1992-	Ambulatory Block Rotation Teaching Attending, Healthcare Associates Beth Israel Deaconess Medical Center	3-6 weeks per year
2002	Inpatient Ward Attending, Healthcare Associates, Beth Israel Deaconess Medical Center	One month
2007-2010	One-on-One Mentor, Society of General Internal Medicine	One to several days per year

Formally Supervised Trainees and Faculty:

1989-1991	<u>Joyce Sackey, MD</u> , Dean for Multicultural Affairs and Global Health, Associate Professor of Medicine, Tufts Medical School, Boston Residency advisor and mentor. Based on residency performance, recruited as primary care chief resident, and then as one of the first clinician educators in the Department of Medicine at BIDMC. Subsequently recruited to Tufts to lead a new program in multicultural affairs.
1994-1997	<u>Saul Weingart, MD, MPH</u> , Vice President for Patient Safety / Director of the Center for Patient Safety, Dana Farber Cancer Institute Residency advisor and mentor, recruited as a clinician investigator at BIDMC as a result of performance during residency
2006-2009	<u>Craig Gordon, MD</u> , Assistant Professor of Medicine, Boston University School of Medicine Research mentor for developing a systematic review, resulting in publication in the

Archives of Internal Medicine

- 2007-2009 Anjala Tess, MD, Assistant Professor of Medicine, Harvard Medical School Faculty, Hospital Medicine Program, Beth Israel Deaconess Medical Center
Research mentor for collaborative writing projects leading to publications in UpToDate and the New England Journal of Medicine
- 2010- Grace Huang, MD, Assistant Professor of Medicine, Harvard Medical School Faculty, Hospital Medicine Program, Beth Israel Deaconess Medical Center
Faculty advisor for fellowship in evidence based medicine. Mentor for systematic review on the value of procedure services to teach inpatient medical procedures to residents in training

Formal Teaching of Peers (CME):

Those presentations below sponsored by outside entities are so noted and the sponsor is identified

Harvard Medical School Sponsored Courses:**Local:**

1990	Preoperative Medical Evaluation Brigham-Beth Israel Postgraduate Series	Single lecture Boston, MA
1991-2006, 2008-2018, 2022	Perioperative Medical Consultation, Case Discussions in Hypertension, Lecture on Hypertension Primary Care Internal Medicine Principles & Practice	Single lecture or workshop Boston, MA
1995-1997	Evaluation of Headache Primary Care for the Obstetrician Gynecologist	Single lecture Boston, MA
1997-2013, 2019-2022	Evaluation of Hypertension, Treatment of Migraine Update in Internal Medicine – Beth Israel Deaconess Medical Center, Department of Medicine	Single lecture Boston, MA
1998,2000, 2005-2013, 2015-2022	Falls in the Elderly, History Taking in the Diagnosis of Headache, Hypertension Update, New Drugs for the PCP, Preoperative Cardiac Evaluation, Treatment of Migraine, Challenging Diagnostic Dilemmas, Subclinical Hypothyroidism Current Clinical Issues in Primary Care East (Pri-Med)	One to two lectures per course Boston, MA
2001, 2006	Preoperative Medical Evaluation Update and Review of Hospital Medicine: The Emerging Role of Hospitalists	Single lecture Boston, MA
2002-2013	Preoperative Cardiac Evaluation, Hypertension Update Primary Care for Subspecialists	Single lectures and workshops

		Boston, MA
2011-2022	Hypertension: Recent Evidence that will Change Your Practice Prevention of Migraine Prevention in Primary Care Practice: Pearls and Pitfalls	Two lectures Boston, MA
2014	Panelist: Update on Colorectal Cancer Screening Best Medical Practices: Maximizing Skills and Minimizing Risk. Harvard Medical School and Risk Management Foundation	Single lecture Boston, MA
2014	Treatment of Migraine Update in Internal Medicine – Beth Israel Deaconess Medical Center	Single lecture Boston, MA
2015-2016	Perioperative Assessment and Treatment of the Elderly Patient, Annual Review of Geriatric Medicine 2015. Harvard Medical School	Single lecture Boston, MA
2015-2020	Screening for Lung Cancer and Followup of Abnormal Chest CT Findings Best Medical Practices: Maximizing Skills and Minimizing Risk. Harvard Medical School and Risk Management Foundation	Single lecture Boston, MA
National:		
1999-2001, 2006-2013	Hypertension, Preoperative Cardiac Risk Assessment, Falls in the Elderly, Preoperative Pulmonary Evaluation, Perioperative Risk Evaluation in the Older Patient, History Taking in the Diagnosis of Headache, New Drugs for the PCP, Diagnosis of Primary Headache Syndromes, Morbidity & Mortality Session: Evaluation of a Patient with a TIA, Ask the Expert, Depression in Primary Care Practice Current Clinical Issues in Primary Care South– in conjunction with University of Miami School of Medicine	Two lectures per course Ft. Lauderdale, FL
2000-2002, 2004, 2006- 2007, 2009- 2018	Hypertension, Preoperative Cardiac Risk Assessment, Falls in the Elderly, Preoperative Evaluation of the Older Adult, Diagnosis of Primary Headache Syndromes, New Drugs for the PCP, Preoperative Pulmonary Evaluation, Treatment of Primary Headache Syndromes, Depression in Primary Care, Ask the Expert Current Clinical Issues in Primary Care West – in conjunction with UCLA School of Medicine	Two to 4 lectures per course Long Beach and Anaheim, CA
2003, 2005,	Preoperative Cardiac Evaluation, Hypertension, Primary	Two lectures per course

2008-2015	Headache Syndromes, Preoperative Pulmonary Evaluation, Treatment of Migraine, New Drugs for the PCP, Morbidity and Mortality Rounds – TIA, Ask the Expert Current Clinical Issues in Primary Care Midwest – In conjunction with Northwestern University	Chicago, IL
2005, 2007-2012	Hypertension, Primary Headache Syndromes, New Drugs for the PCP, Preoperative Pulmonary Evaluation, Preoperative Cardiac Evaluation, TIA Morbidity, Mortality Presentation, Ask the Expert, Depression. Current Clinical Issues in Primary Care Mid Atlantic – in conjunction with Johns Hopkins University School of Medicine	Two lectures per course Baltimore, MD
2007-2008	New Drugs for the PCP, History Taking in the Diagnosis of Primary Headache Syndromes, Preoperative Pulmonary Evaluation Current Clinical Issues in Primary Care South – in conjunction with Baylor University School of Medicine	Two lectures per course Houston, TX
2007-2012	New Drugs for the PCP, History Taking in the Diagnosis of Primary Headache Syndromes, Preoperative Pulmonary Evaluation, Hypertension, Ask the Expert Current Clinical Issues in Primary Care New York – in conjunction with Columbia University College of Physicians and Surgeons	Two lectures per course New York, NY

Local Invited Presentations:

Those presentations below sponsored by outside entities are so noted and the sponsor is identified

1990	Preoperative Medical Evaluation / Grand Rounds Department of Medicine, Veteran's Administration Hospital, Brockton, MA
1995	Evaluation and Management of Headache / Grand Rounds Department of Obstetrics and Gynecology, Beth Israel Hospital
1996	Perioperative Patient Management / Grand Rounds Department of Anesthesia, Beth Israel Hospital
1997	Falls in the Elderly / Primary Care Seminar Lecture Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
1997	Understanding the Promotions Process / Workshop Leader Harvard Primary Care Division, Teacher Clinician Initiative
1997	Improving Consultative Services / Lecture Beth Israel Deaconess Physician Organization

- 1998, 2000 Preoperative Evaluation / Hospital Wide Grand Rounds
Mt. Auburn Hospital
- 1999 Evaluation of Headache / Primary Care Seminar Lecture
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 1999 Managed Care Primer / Medical Economics Curriculum Panelist
Department of Medicine, Beth Israel Deaconess Medical Center
- 1999 Academic Recognition and Promotion / Faculty Retreat Moderator
Primary Care Division, Harvard Medical School
- 1999, 2002, 2007 Preoperative Evaluation / Teaching Rounds
Department of Medicine, Veterans' Administration Medical Center, West Roxbury, MA
- 2000 Preoperative Cardiac Evaluation / Hospital Wide Grand Rounds
Mt. Auburn Hospital
- 2001 Preoperative Pulmonary Evaluation / Hospital Medicine Education Seminars
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2001 Hypertension: Rational Drug Therapy and Recent Evidence / Grand Rounds
Department of Medicine, Beth Israel Deaconess Medical Center
- 2001 Management of Primary Care Patients in the Inpatient Setting / Panelist, Symposium on
the Future of Primary Care
Department of Medicine, Beth Israel Deaconess Medical Center
- 2001 Approach to the Patient with Hypertension / Teaching Rounds
Department of Medicine, Veterans' Administration Medical Center, West Roxbury, MA
- 2002 Approach to the Patient with Hypertension / Hospital Wide Grand Rounds
Mt. Auburn Hospital
- 2002 Improving Collaboration Between Clinician Teachers and Clinician Investigators / Lecture
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2003 Preoperative Pulmonary Evaluation / Medical Rounds
Harvard University Health Services, Cambridge, MA
- 2003 How to Write a Review Article / Carl J. Shapiro Education Institute Seminar Series
Department of Medicine, Beth Israel Deaconess Medical Center
- 2003 How to Write a Review Article / Professional Development Series Lecture
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2003 Preoperative Pulmonary Evaluation / Hospital Medicine Education Seminars
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2004 Preoperative Cardiac Evaluation / Grand Rounds

Department of Anesthesia, Beth Israel Deaconess Medical Center

- 2005 Factors that Influence Patient Response to Requests to Change to a Unified Formulary - Strategies to Turn Practice Projects into Manuscripts for Publications / Faculty Development Series
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2006 Clinical Crossroads: a Patient With COPD Preparing for Major Noncardiac Surgery / Medical Grand Rounds
Department of Medicine, Beth Israel Deaconess Medical Center
- 2006 Preoperative Pulmonary Evaluation and Risk Reduction Strategies / Pulmonary Rounds Lecture
Combined Departments of Medicine, Beth Israel Deaconess Medical Center / Brigham and Women's Hospital
- 2007 New Drugs for the PCP: What We Need to Know / Faculty Development Series
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2007 Cardiovascular Disease: Treatment and Prevention Strategies / Case Discussant
Joslin Diabetes Center
Department of Medicine, Beth Israel Deaconess Medical Center
- 2008 Treatment of Migraine / Women's Health Seminar Series
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2008 New Drugs for the PCP: What You Need to Know / Hospital Wide Grand Rounds
Mt. Auburn Hospital
- 2008 Preoperative Pulmonary Evaluation: A View from the ACP Guideline / Hospital Medicine Grand Rounds
Department of Medicine, Brigham and Women's Hospital
- 2008 Pulmonary Risk Stratification and Risk Reduction Therapy for Noncardiac Surgery / Visiting Professor
Department of Anesthesia, Brigham and Women's Hospital
- 2008 Cardiovascular Disease: Treatment and Prevention Strategies / Case Discussant
Joslin Diabetes Center / Brigham and Women's Hospital
- 2009 New Drugs for the PCP: Drugs in the Pipeline / Faculty Development Series
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2009 How to Write a Systematic Review / Faculty Development Series
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2010 How to Write a Systematic Review / Learning Session
Department of Quality Improvement and Risk Management and the Center for Patient Safety, Dana Farber Cancer Institute

- 2010 Controversies in Perioperative Medicine / Visiting Professor
Department of Anesthesia, Brigham and Women's Hospital
- 2010 How to Write a Systematic Review / Hospital Medicine Education Seminars
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2010 Hypertension Update / General Medicine Grand Rounds
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2011 How to Write a Systematic Review: the IDEAS Project: Innovation, Design, and Emerging
Alliances in Surgery: Surgical Care by Design
Department of Surgery, Beth Israel Deaconess Medical Center
- 2011 Hypertension: Recent Advances that Will Change Your Practice / Faculty Development
Series
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2012-2013 New Drugs in Primary Care: What You Need to Know / General Medicine Grand Rounds
Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
- 2012 Preoperative Pulmonary Evaluation: A View from the ACP Guideline / Harvard
Anesthesia Update: Innovation and Transformation in Anesthesiology
Department of Anesthesiology, Harvard Medical School Consortium
- 2013 How to Conduct a Systematic Review / Surgical Outcomes Analysis and Research
(SOAR)
Department of Surgery, Beth Israel Deaconess Medical Center
- 2013 Hypertension Update. Core Curriculum in Adult Primary Care Medicine.
Beth Israel Deaconess Hospital Needham
- 2014 Beyond the Guidelines: Lung CT Screening for Smokers. Medical Grand Rounds co-
sponsored by the Annals of Internal Medicine
Beth Israel Deaconess Medical Center
- 2014 Treatment of Migraine
Grand Rounds, Division of General Medicine and Primary Care, Beth Israel Deaconess
Medical Center
- 2015 Hypertension 2015: Recent Evidence that Will Change Your Practice
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2015 Beyond the Guidelines: Cholesterol Lowering Treatment to Reduce the Risk of ASCVD.
Moderator
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2015 New Drugs for Primary Care
Core Curriculum in Primary Care, Beth Israel Deaconess Hospital Needham

- 2015 Hypertension 2015: New Evidence that will Change Your Practice
Brigham and Women's Faulkner Hospital
- 2015 Hypertension 2015: New Evidence that will Change Your Practice
General Medicine Grand Rounds, Beth Israel Deaconess Medical Center
- 2015 Hypertension Update: New Evidence that will Change Your Practice
Cardiology Grand Rounds, Beth Israel Deaconess Medical Center
- 2015 Preoperative Cardiac Evaluation
Core Curriculum in Primary Care, Beth Israel Deaconess Hospital, Needham
- 2015 Screening for Coronary Artery Disease in Asymptomatic Persons.
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2015 Preoperative Pulmonary Evaluation
Core Curriculum in Primary Care, Beth Israel Deaconess Hospital, Needham
- 2016 Would You Treat This Patient with Subclinical Hypothyroidism?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2016 Would You Screen This Patient for Type 2 Diabetes?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2016 Diagnostic Dilemmas in Primary Care
General Medicine Grand Rounds, Beth Israel Deaconess Medical Center
- 2017 Would You Start this Patient on Antidepressant Medication?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2017 Would You Screen this Patient for Carotid Artery Stenosis?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2018 Preoperative Assessment
Medical Grand Rounds, Beth Israel Deaconess Hospital, Needham
- 2018 Hypertension in the Era of ACC/AHA
Grand Rounds, Harvard University Health Services, Cambridge
- 2018 To What Target Blood Pressure Would You Treat this Older Patient with Hypertension?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2018 Hypertension in the Era of ACC/AHA: Practice Changing Recommendations
Physician Education Day
Beth Israel Deaconess Medical Center
- 2018 Hypertension in the Era of ACC/AHA
Core Curriculum in Primary Care, Beth Israel Deaconess Hospital, Needham

- 2019 Would You Screen for Prostate Cancer in this Patient?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2019 Would you Screen This Patient for Atrial Fibrillation?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2019 New Drugs for Primary Care, Preoperative Cardiac Evaluation
Core Curriculum in Primary Care, Beth Israel Deaconess Hospital, Needham
- 2020 Would You Recommend Direct to Consumer Genetic Testing for this Patient?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2020 Management of Severe Asthma in Primary Care.
PriMed. Boston, MA
- 2020 Would You Recommend Cannabinoids for this Patient with Painful Neuropathy?
General Medicine Grand Rounds, Beth Israel Deaconess Medical Center?
- 2020 How to Write a Systematic Review
Medical Resident Research Block, Beth Israel Deaconess Medical Center
- 2020 Hypertension Update. Prevention of Migraine. Principles of Prevention in Primary Care.
HMS CME Webcast.
- 2020 Treatment of Migraine
Core Curriculum Series, Beth Israel Deaconess Hospital, Needham. Webcast.
- 2021 How Would You Manage this Male Patient with Age-related hypogonadism?
Medical Grand Rounds, Beth Israel Deaconess Medical Center
- 2021 Preoperative Cardiac Evaluation
General Medicine Grand Rounds, Beth Israel Deaconess Medical Center
- 2021 Hypertension Update. Prevention of Migraine. Principles of Prevention in Primary Care.
HMS CME Webcast.
- 2021 Hypertension 2021: New Findings that will Change Your Practice
Core Curriculum in Primary Care, Beth Israel Deaconess Hospital, Needham.
Webcast to a Regional Audience
- 2021 Would You Recommend a Statin for this Patient at Risk for Cardiovascular Disease?
Medical Grand Rounds. Beth Israel Deaconess Medical Center
- 2022 Hypertension Update. Prevention of Migraine. Principles of Prevention in Primary Care.
HMS CME Webcast.
- 2022 How Would You Manage this Patient with Chronic Insomnia?
Medical Grand Rounds, Beth Israel Deaconess Medical Center

2022 How Would You Manage this Patient with Benign Prostatic Hyperplasia?
 General Medicine Grand Rounds, Beth Israel Deaconess Medical Center

REPORT OF REGIONAL, NATIONAL AND INTERNATIONAL INVITED TEACHING AND PRESENTATIONS

Those presentations below sponsored by outside entities are so noted and the sponsor is identified

Regional:

1988, 1995 Preoperative Medical Consultation / Grand Rounds
 Hale Hospital, Haverhill, MA

1990 Preoperative Medical Evaluation of the Surgical Patient / Grand Rounds
 Exeter Hospital, Exeter, NH

1991 Perioperative Consultation / Grand Rounds
 Amesbury Hospital, Amesbury, MA

1992 Preoperative Medical Consultation / Grand Rounds
 Hale Hospital, Haverhill, MA

1996 Evaluation of Headache / Invited Lecture
 17th Annual Reproductive Health Review and Update, Burlington, MA

1996 Perioperative Medical Consultation / Teaching Rounds
 MetroWest Medical Center, Framingham, MA

1997 Falls in the Elderly / Teaching Rounds
 MetroWest Medical Center, Framingham, MA

1998 Evaluation of Headache / Invited Lecture
 JCI Research and Training Institute, Portsmouth, NH

1998 Hypertension / Teaching Rounds
 MetroWest Medical Center, Framingham, MA

1998 Falls and Syncope in the Elderly / Invited Lecture
 Harvard Pilgrim Medical Education Partnership Primary Care for the Older Patient,
 Waltham, MA

1998 Mobility and Falls / Invited Lecture
 Harvard Pilgrim Prevention Strategies for the Older Patient, Waltham, MA

1998 Perioperative Medical Consultation / Teaching Rounds
 MetroWest Medical Center, Framingham, MA

- 1999 Hypertension / Grand Rounds
Hale Hospital, Haverhill, MA
- 1999 Hypertension & Preoperative Medical Evaluation / Invited Lecture
Bar Harbor Medical Symposium, Bar Harbor, ME
- 1999 Preoperative Pulmonary and Cardiac Evaluation / Grand Rounds
Hale Hospital, Haverhill, MA
- 1999, 2002, Hypertension / Teaching Rounds
2005 MetroWest Medical Center, Framingham, MA
- 2000 Preoperative Medical Evaluation / Grand Rounds
Heywood Hospital, Gardner, MA
- 2000 Evaluation of the Patient with Headache & Falls in the Elderly / Invited Lecture
Bar Harbor Medical Symposium, Bar Harbor, ME
- 2000 Falls in the Elderly / Grand Rounds
Hale Hospital, Haverhill, MA
- 2000 Approach to the Patient with Headache / Teaching Rounds
MetroWest Medical Center, Framingham, MA
- 2002 Perioperative Medical Consultation / Teaching Rounds
MetroWest Medical Center, Framingham, MA
- 2003 Hypertension Update / Grand Rounds
Lowell General Hospital, Lowell, MA
- 2004 Preoperative Cardiac Evaluation / Grand Rounds
South Shore Hospital, South Weymouth, MA
- 2005 Preoperative Cardiac Evaluation / Grand Rounds
Anna Jacques Hospital, Newburyport, MA
- 2007 Preoperative Cardiac Evaluation / Grand Rounds
Exeter Hospital, Exeter, NH
- 2007 Preoperative Pulmonary Evaluation / Pulmonary Grand Rounds
Tufts New England Medical Center, Boston, MA
- 2009 Hypertension 2009: Evidence Based Treatment / Grand Rounds
Nashoba Hospital, Nashoba, MA
- 2010 Hypertension Update / Medical Grand Rounds
Emerson Hospital, Concord, MA
- 2011 Update in New Drugs for Primary Care / Invited Lecture

Core Curriculum in Primary Care Medicine, Boston, MA

- 2011 Hypertension: Recent Advances that Will Change Your Practice / Grand Rounds
Division of General Medicine, Boston Medical Center/Boston University, Boston, MA
- 2012 Preoperative Pulmonary Evaluation: a View from the ACP Guideline. / Anesthesiology
Grand Rounds
Tufts Medical Center, Boston, MA
- 2012 Hypertension 2012: Recent Evidence that Will Change Your Practice / Teaching Rounds
Fenway Health Center, Boston, MA
- 2015 Preoperative Cardiac Evaluation: Lessons from the 2014 ACP Guideline and More
Grand Rounds, Beth Israel Hospital, Needham, MA
- 2015 Hypertension Update: New Findings that will Change Your Practice
Grand Rounds, MetroWest Medical Center, Framingham, MA
- 2015 Preoperative Pulmonary Evaluation / Invited Lecture
Metro West Medical Center, Natick, MA
- 2015 Hypertension Update: New Findings that will Change Your Practice
Grand Rounds, Beth Israel Deaconess Hospital, Needham, MA
- 2015 Treatment of Primary Headache Syndromes
Carney Hospital, Dorchester, MA
- 2017 Treatment of Migraine
Holy Family Hospital, Methuen, MA
- 2017 Update in Hypertension 2017
Core Curriculum in Medicine, Beth Israel Deaconess Hospital, Needham, MA
- 2019 New Drugs for Primary Care: What You Need to Know. Preoperative Cardiac Evaluation.
Core Curriculum in Medicine, Beth Israel Deaconess Hospital, Needham, MA

National:

- 1998-2007 Hypertension, Preoperative Medical Evaluation / Invited Lectures
Columbia University College of Physicians and Surgeons, New York, NY
- 1999 Clinical Practice Issues in a Hospital Based Teaching Setting / Workshop
Society of General Internal Medicine National Meeting, San Francisco, CA
- 2000 Preoperative Pulmonary Evaluation / Invited Lecture
Society of General Internal Medicine National Meeting, Boston, MA
- 2001 Clinical Problem Solving: Patient Management Issues in Preoperative Cardiac Risk
Evaluation / Invited Workshop

- Society of General Internal Medicine National Meeting, San Diego, CA
- 2002 Update in Perioperative Medicine / Workshop
Society of General Internal Medicine National Meeting, Atlanta, GA
- 2002-2003 Preoperative Pulmonary Evaluation and Prevention of Postoperative Pulmonary
Complications / Invited Lecture – Update in Hospital Medicine
University of California, San Francisco, CA
- 2003 Preoperative Medical Evaluation & Postoperative Medical Complications / Invited
Lectures
American College of Physicians Annual Session, San Diego, CA
- 2004 2nd Annual Update in Perioperative Medicine / Invited Lecture
Society of General Internal Medicine National Meeting, Chicago, IL
- 2005 Update in Perioperative Pulmonary Evaluation / Invited Lecture
Society of Hospital Medicine National Meeting, Chicago, IL
- 2005 3rd Annual Update in Perioperative Medicine / Invited Lecture
Task Force for the Research Agenda in General Internal Medicine / Workshop Leader
Society of General Medicine National Meeting, New Orleans, LA
- 2005 Preoperative Pulmonary Evaluation / Invited Lecture
1st Annual Perioperative Medicine Summit, Cleveland Clinic, OH
- 2005 Caring for Your Patients Who Undergo Surgery: Expert Perioperative Management /
Workshop Leader, Save Yourself a Headache: A Rational Approach to the Evaluation and
Management of Headaches in Primary Care / Meet the Professor Sessions
American College of Physicians Annual Session, Philadelphia, PA
- 2005-2008, Preoperative Cardiac Evaluation, Depression in Primary Care, Diagnosis of Primary
2010-2014 Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New
Drugs in Primary Care Practice, Falls in the Elderly, Preoperative Pulmonary Evaluation
AMS Seminars. Sarasota, FL
- 2006 3rd Annual Update in Perioperative Medicine / Invited Lecture
Society of General Internal Medicine National Meeting, Los Angeles, CA
- 2006 Hypertension: New Targets and Tools & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2006 Preoperative Pulmonary Evaluation / Invited Lecture
2nd Annual Perioperative Medicine Summit, Cleveland Clinic, OH
- 2007 History Taking in the Diagnosis of Primary Headache Syndromes & Treatment of Primary
Headache Syndromes / Visiting Professor
Susquehanna Health System, Williamsport, PA

- 2007 Preoperative Pulmonary Evaluation / Grand Rounds
Mount Sinai Hospital, New York, NY
- 2007 Identifying Approaches for Measuring Quality for Patients with Multiple Risk Factors and Complex Co-Morbid Conditions / Workshop Participant
National Quality Forum, Washington, DC
- 2007 Update in Perioperative Medicine / Invited Lecture
American College of Physicians Annual Session, San Diego, CA
- 2007 Preoperative Pulmonary Evaluation & Update in Perioperative Medicine / Invited Lectures
Society of Hospital Medicine National Meeting, Houston, TX
- 2007 Preoperative Pulmonary Evaluation / Invited Lecture
3rd Annual Perioperative Medicine Summit: Using Evidence to Improve Quality, Safety, and Patient Outcomes, Cleveland Clinic, OH
- 2007 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2008 4th Annual Update in Perioperative Medicine & 1st Annual Update on New Medications in Primary Care / Invited Lectures
Society of General Internal Medicine National Meeting, Pittsburgh, PA
- 2008 Clinical Problem Solving in Perioperative Medicine & Perioperative Medication Management / Invited Lectures
American College of Physicians Annual Session: Internal Medicine 2008, Washington, DC
- 2008 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2009 Pulmonary Risk Stratification / Invited Lecture
4th Annual Perioperative Medicine Summit, University of Miami, Society for Perioperative Assessment and Quality Improvement, Miami, FL
- 2009 Clinical Pearls Headache & Multiple Small Feedings of the Mind: Depression / Invited Lectures
American College of Physicians Summer Session, Orlando FL and San Francisco CA
- 2009 5th Annual Update in Perioperative Medicine & 2nd Annual Update in New Medications for Primary Care / Invited Lectures
Society of General Internal Medicine National Meeting, Miami, FL
- 2009 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM

- 2010 6th Annual Update in Perioperative Medicine & 3rd Annual Update in New Medications for Primary Care / Invited Lectures
Society of General Internal Medicine National Meeting, Minneapolis, MN
- 2010 Preoperative Assessment of the Patient with Lung Disease: Lecture and Meet the Professor Session / Invited Lectures
State of the Art Program, American Thoracic Society National Meeting, Miami, FL
- 2010 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2011 Pulmonary Risk Stratification and Update in Perioperative Medicine / Invited Lectures
6^h Annual Perioperative Medicine Summit, University of Miami, Society for Perioperative Assessment and Quality Improvement, Miami, FL
- 2011 Update in New Medications for Primary Care / Invited Lecture
ACP Internal Medicine 2011 National Meeting, San Diego, CA
- 2011 7th Annual Update in Perioperative Medicine, 4th Annual Update in New Medications for Primary Care, and Workshop: How to be an Effective Peer Reviewer / Invited Presentations
Society of General Internal Medicine National Meeting, Phoenix, AZ
- 2011 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2012 Pulmonary Risk Stratification and Update in Perioperative Medicine / Invited Lectures
8^h Annual Perioperative Medicine Summit, University of Miami, Society for Perioperative Assessment and Quality Improvement, Miami, FL
- 2012 Pulmonary Risk Assessment and Risk Reduction for Noncardiac Surgery / Invited Lecture
Perioperative Medicine for the Hospitalist
Society of Hospital Medicine National Meeting: Hospital Medicine 2012, San Diego, CA
- 2012 8th Annual Update in Perioperative Medicine, 5th Annual Update in New Medications for Primary Care, and Workshop: Practical Perioperative Medicine
Society of General Medicine Annual Meeting, Orlando, FL
- 2012 Overview to the Approach to Preoperative Assessment for Respiratory Complications.
CHEST 2012 – Annual Meeting of the American College of Chest Physicians, Atlanta, GA
- 2012 How Important is Hypertension in the Perioperative Period? & Pulmonary Risk Stratification and Postoperative Pulmonary Complications
Wake Forest 18th Annual Advances in Physiology and Pharmacology in Anesthesia and Critical Care, Greenbrier, WV

- 2012 Preoperative Cardiac Evaluation, Depression in Primary Care, Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice
MCE Conferences, Oahu, HI
- 2012 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2013 Emerging Risk Factors in Preoperative Pulmonary Evaluation: Focus on Pulmonary Hypertension and Obstructive Sleep Apnea & Update in Perioperative Medicine / Invited Lectures
9^h Annual Perioperative Medicine Summit, University of Miami, Society for Perioperative Assessment and Quality Improvement, Miami, FL
- 2013 Update in New Drugs in Primary Care / Invited Lecture
Internal Medicine 2013, the American College of Physicians Annual Meeting, San Francisco CA
- 2013 9th Annual Update in Perioperative Medicine / Invited Lecture
Society of General Medicine Annual Meeting, Denver, CO
- 2013 Preoperative Pulmonary Evaluation, Depression in Primary Care, Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice
MCE Conferences, Sonoma, CA
- 2013 Hypertension: Recent Trials and New Recommendations & New Drugs for the PCP / Invited Lectures
University of New Mexico, Santa Fe, NM
- 2013 Approach to Preoperative Pulmonary Evaluation. CHEST 2013
American College of Chest Physicians Annual Session, Chicago, IL
- 2014 Preoperative Pulmonary Evaluation – Focus on Obstructive Sleep Apnea and Pulmonary Hypertension / Visiting Professor
St. Joseph’s Hospital & Medical Center, Phoenix, AZ
- 2014 New Drugs for Primary Care & Treatment of Migraine / Invited Lectures
PriMed West Annual Conference. University of California, Los Angeles, Anaheim, CA
- 2014 10th Annual Update in Perioperative Medicine / Invited Lecture
Society of General Medicine Annual Meeting, San Diego, CA
- 2014 Treatment of Primary Headache Syndromes / Invited Lecture
PriMed Midwest Annual Conference, Chicago, IL
- 2014 Perioperative Pulmonary Care / Invited Panelist, Lecturer
CHEST 2014, Annual Meeting of the American College of Chest Physicians, Austin, TX

- 2015 Update in Perioperative Medicine, Rapid Fire Topics in Pulmonary Medicine / Invited Lectures
10th Annual Perioperative Medicine Summit, Phoenix, AZ
- 2015 New Drugs in Primary Care, Primary Care Management of Depression / Invited Lectures
Pri-Med West Annual Conference, University of California, Los Angeles, Anaheim, CA
- 2015 New Drugs in Primary Care Practice / Invited Lecture
Pri-Med South Annual Conference, Baylor College of Medicine, Houston, TX
- 2015 Preoperative Pulmonary Assessment: COPD, Pulmonary Hypertension and Obstructive Sleep Apnea. Perioperative Medicine 2015. Meet the Professor: New Drugs in Primary Care. Precourse / Invited Lectures
ACP Internal Medicine 2015, Boston, MA
- 2015 Preoperative Pulmonary Evaluation, Depression in Primary Care, Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice
MCE Conferences, Anaheim, CA
- 2016 Preoperative Cardiac Evaluation, Depression in Primary Care, Hypertension, New Drugs for Primary Care, Diagnosis of Primary Headaches, Treatment of Primary Headaches
AMS CME, Sarasota, FL
- 2016 Update in Perioperative Medicine, Pulmonary Hypertension / Invited Lectures
11th Annual Perioperative Summit, Scottsdale, AZ
- 2016 New Drugs in Primary Care, Treatment of Primary Headache Syndromes / Invited Lectures
Pri-Med West Annual Conference, University of California, Los Angeles, Anaheim, CA
- 2016 Preoperative Pulmonary Evaluation Precourse, New Drugs for Primary Care Practice / Invited Lectures
ACP Internal Medicine 2016, Washington, DC
- 2016 Common Diagnostic Dilemmas in Clinical Practice / Invited Lecture
Pri-Med Institute Regional Conference, Chicago, IL
- 2016 Update in Perioperative Medicine
Society of General Internal Medicine Annual Meeting, Hollywood, FL
- 2016 Common Diagnostic Dilemmas in Clinical Practice / Invited Lecture
Pri-Med Institute Regional Conference, Washington, DC
- 2016 Common Diagnostic Dilemmas in Clinical Practice / Invited Lecture
Pri-Med Midwest Annual Conference, Rosemont, IL
- 2016 Treatment of Migraine and Primary Headaches, Screening for Lung Cancer and

- Medicolegal Primer, Hypertension, Depression in Primary Care, New Drugs for Primary Care, Common Diagnostic Dilemmas
MCE Conferences, San Francisco, CA
- 2016 Common Diagnostic Dilemmas in Clinical Practice / Invited Lecture
Pri-Med Institute Regional Conference, Atlanta, GA
- 2016 Common Diagnostic Dilemmas in Clinical Practice / Invited Lecture
Pri-Med Institute Regional Conference, Los Angeles, CA
- 2016 Challenging Diagnostic Dilemmas / Invited Lecture
Pri-Med Institute Regional Conference, Cleveland, OH
- 2017 Challenging Diagnostic Dilemmas / Invited Lecture
Pri-Med Southeast Annual Conference, Ft. Lauderdale, FL
- 2017 Preoperative Pulmonary Evaluation, Diagnostic Dilemmas in Primary Care, Irritable Bowel Syndrome, Latest Advances / Invited Lectures and Precourse
ACP Internal Medicine 2017. American College of Physicians, San Diego, CA
- 2017 Update in Perioperative Medicine.
Society of General Internal Medicine Annual Meeting. Washington, DC
- 2017 Common Diagnostic Dilemmas, New Drugs for Primary Care
Pri-Med West, UCLA, Anaheim, CA
- 2017 Diagnostic Dilemmas, Diagnosis of Primary Headaches, New Drugs for Primary Care, Management of Primary Headaches, Preoperative Cardiac Evaluation.
MCE Conferences, Nashville, TN
- 2017 Updates from the Medical Literature 2017
Pri-Med Regional Conference, Washington DC
- 2017 Updates from the Medical Literature 2017
Pri-Med Regional Conference, Long Beach, CA
- 2017 Hypertension in the Era of ACC/AHA, Treatment of Migraine, New Drugs for Primary Care, Primary Care Management of Depression.
AMS conferences, Sarasota, FL
- 2017 Updates from the Medical Literature
Pri-Med Regional Conference, Baltimore, MD
- 2018 New Drugs for Primary Care, Preoperative Pulmonary Evaluation Precourse
ACP Internal Medicine 2018. Annual Meeting of the American College of Physicians, New Orleans, LA
- 2018 Beyond the Guidelines: Would You Recommend Supplemental Screening for this Woman with Dense Breasts?

- ACP Internal Medicine 2018. Annual Meeting of the American College of Physicians, New Orleans, LA
- 2018 New Drugs for Primary Care, Challenging Primary Care Diagnoses. PriMed West, UCLA, Anaheim, CA
- 2018 Diagnosis of Primary Headaches, Treatment of Migraine and Primary Headaches, Preoperative Cardiac Evaluation, Depression in Primary Care, Hypertension. Diagnostic Dilemmas, New Drugs for Primary Care. MCE CME. Charleston, SC
- 2018 Hypertension in the Era of ACC/AHA, Primary Care Management of Depression, Treatment of Primary Headache Syndromes, New Drugs for Primary Care. AMS CME. San Diego, CA
- 2018 Hypertension in the Era of ACC/AHA, Primary Care Management of Depression, Treatment of Primary Headache Syndromes, New Drugs for Primary Care. AMS CME. Sarasota, FL
- 2019 Hypertension in the Era of ACC/AHA. Medical Grand Rounds. North Shore University Evanston Hospital, Department of Medicine. Evanston, IL.
- 2019 Preoperative Pulmonary Evaluation, New Drugs for Primary Care, Beyond the Guidelines: To What Target A1c Would You Treat this Patient with Type 2 Diabetes? ACP Internal Medicine 2019, Philadelphia, PA.
- 2019 New Drugs for Primary Care, Treatment of Migraine. PriMed West, UCLA, Anaheim, CA
- 2019 Challenging Diagnostic Dilemmas in Primary Care PriMed Regional Conference, Chicago, IL
- 2019 Challenging Diagnostic Dilemmas in Primary Care PriMed Regional Conference, San Jose, CA
- 2019 Depression in Primary Care Practice, New Drugs for Primary Care, Hypertension in the Era of ACC/AHA, Treatment of Migraine. MCE CME, New York, NY
- 2020 New Drugs for Primary Care. Beyond the Guidelines: Direct to Consumer Genetic Testing, Preoperative Pulmonary Evaluation. ACP Internal Medicine 2020. Los Angeles, CA.
This presentation was scheduled, but then cancelled because of a Covid-19 travel/meeting ban.
- 2020 Primary Care Management of Depression. Diagnostic Dilemmas in Primary Care. PriMed West, UCLA. Anaheim, CA
This presentation was scheduled, but then cancelled because of a Covid-19 travel/meeting ban.
- 2020 Hypertension, New Drugs for Primary Care, Primary Care Management of Depression, Common Diagnostic Dilemmas, Treatment of Migraine, Preoperative Cardiac Evaluation.

- MCE CME. Anaheim, CA
This presentation was scheduled, but then cancelled because of a Covid-19 travel/meeting ban.
- 2020 Severe Asthma in Primary Care: New Strategies for Management
Pri-Med Institute. Webcast to national audience. (2 presentations)
- 2020 Common Diagnostic Dilemmas in Primary Care.
Pri-Med NOW. Webcast to national audience.
- 2021 New Drugs for Primary Care. What You Need to Know.
ACP Internal Medicine 2021 – American College of Physicians Annual Meeting
Webcast to national audience
- 2021 Diagnosis of Primary Headache Syndromes, Management of Migraine, Hypertension
Update 2021, Preoperative Cardiac Evaluation, New Drugs for Primary Care, Management
of Depression in Primary Care.
AMS CME. San Diego, CA
- 2021 New Drugs for Primary Care Practice.
PriMed NOW. Hosted by UCLA School of Medicine
Webcast to a national audience
- 2021 Subclinical Hypothyroidism
Pri-Med East. Boston, MA
- 2021 Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes,
Rational Management of Depression in Primary Care, New Drugs for the Primary Care
Provider, Hypertension: New Information that will Change Your Practice
AMS CME. Sarasota, FL
- 2022 New Drugs for Primary Care: What you Need to Know
Pri-Med West. Anaheim, CA
- 2022 Preoperative Pulmonary Evaluation. New Drugs for the Primary Care Provider
ACP Internal Medicine 2022. American College of Physicians Annual Meeting
Chicago, IL
- 2022 Common Diagnostic Dilemmas in Primary Care
Pri-Med East, Boston, MA
- 2022 Diagnosis of Primary Headache Syndromes, Treatment of Migraine and Tension-Type
Headache, Rational Management of Depression in Primary Care, New Drugs for the
Primary Care Provider, Hypertension: Recent Trials and Rational Therapy
AMS CME, Lido Beach, FL

International

- 2002 Value of Historical Features in the Diagnosis of Primary and Posttraumatic Headaches / Invited Lecture
1st International Conference on Symptom, Diagnostic, and Disability Validity: Improving Patient Outcomes, Toronto, Ontario, Canada
- 2003 1st Annual Update in Perioperative Medicine / Invited Lecture
Society of General Internal Medicine National Meeting, Vancouver, BC, Canada
- 2003 Treatment of Depression in Primary Care / Invited Lecture
Practi-Med, Kyoto, Japan (New England Journal of Medicine)
- 2004 Hypertension Update / Invited Lecture
Advances in Cardiology: Prevention, Diagnosis, and Treatment
Harvard Medical International, Lucerne, Switzerland
- 2004 Preoperative Cardiac Evaluation and Risk Reduction Strategies & Diagnosis and Management of Primary Headache Disorders / Invited Lectures
Sri Ramachandra Medical College and Research Institute, Chennai, India (teleconference)
- 2004 Hypertension / Invited Lecture
Advances in Cardiology: Prevention, Diagnosis, and Treatment
Harvard Medical International, Montreux, Switzerland
- 2004 Preoperative Cardiac Evaluation: How to Stratify and Reduce Risk & History Taking in Making a Headache Diagnosis / Invited Lectures
Practi-Med, Dubai, United Arab Emirates
- 2005 Hypertension Update / Invited Lecture
Advances in Cardiology: Prevention, Diagnosis, and Treatment
Harvard Medical International, Lucerne, Switzerland
- 2006 Hypertension 2006: What Have We Learned This Year? / Invited Lecture
Advances in Cardiology: Prevention, Diagnosis, and Treatment
Harvard Medical International, Montreux, Switzerland
- 2007 Spotlight on SGIM: A Comparison of Outcomes Resulting From Generalist Versus Specialist Care for a Single Discrete Medical Condition: a Systematic Review and Methodologic Critique / Invited Special Lecture & Update in Perioperative Medicine / Lecturer
Society of General Internal Medicine National Meeting, Toronto, Ontario, Canada
- 2007 Preoperative Pulmonary Evaluation: a View from the ACP Guideline / Invited Lecture
1st Annual Canadian Perioperative Anesthesia and Medicine Meetings, Hamilton, Ontario, Canada
- 2008 Preoperative Pulmonary Evaluation: a View from the ACP Guideline / Invited Lecture
2nd Annual Canadian Perioperative Anesthesia and Medicine Meetings, Hamilton, Ontario, Canada

- 2008 Evidence Based Management of Hypertension & Oncology in Primary Care / Invited Lectures
Live Med Institute, Harvard Annual Forum, Mexico City, Mexico
- 2010 Preoperative Cardiac Evaluation, Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice
MCE Conferences, Nassau, Bahamas
- 2010 Controversies in Perioperative Medicine & Meet the Professor: Preoperative Pulmonary Evaluation / Invited Lectures & Internal Medicine 2010 Session Highlights / Special Invited Panelist
ACP Internal Medicine 2010 / American College of Physicians, Toronto, Ontario, Canada
- 2011 Hypertension: Rational Treatment & Depression in Primary Care Practice
Common Problems in Primary Care Practice. Ho Chi Minh City University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam. Sponsored by the U.S. Centers for Disease Control and Prevention (CDC)
- 2012 Preoperative Cardiac Evaluation, Depression in Primary Care, Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice
MCE Conferences, Montego Bay, Jamaica
- 2012 Hypertension: Evidence that will Change Your Practice & Depression in Primary Care Practice
Common Problems in Primary Care Practice. Ho Chi Minh City University of Medicine and Pharmacy, Ho Chi Minh City **and** Hanoi Medical University, Hanoi, Vietnam. Sponsored by the U.S. Centers for Disease Control and Prevention (CDC)
- 2013 Preoperative Pulmonary Evaluation with a Focus on Sleep Apnea and Pulmonary Hypertension / Invited Keynote Lecture & Preoperative Chest X-rays: Do They Ever Add Value?
2013 Perioperative Medicine Symposium: Internal Medicine and Critical Care Institutes. Royal Melbourne Hospital & Epworth Healthcare. Melbourne, Australia
- 2013 Hypertension: Evidence that will Change Your Practice & Treatment of Primary Headache Syndromes
Common Problems in Primary Care Practice. Ho Chi Minh City University of Medicine and Pharmacy, Ho Chi Minh City **and** Hanoi Medical University, Hanoi, Vietnam. Sponsored by the U.S. Centers for Disease Control and Prevention (CDC)
- 2014 Preoperative Pulmonary Evaluation, Depression in Primary Care, Diagnosis of Primary Headache Syndromes, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice. MCE Conferences, Montreal, QB, Canada
- 2014 Hypertension: Evidence that will Change Your Practice & Depression in Primary Care Practice
Common Problems in Primary Care Practice. Ho Chi Minh City University of Medicine and Pharmacy, Ho Chi Minh City **and** Hanoi Medical University, Hanoi, Vietnam.

Sponsored by the U.S. Centers for Disease Control and Prevention (CDC)

- 2014 Primary Care Management of Depression & Career Development Tips for Clinician Educators
Annual Meeting, Taiwan Society of Internal Medicine. American College of Physicians Ambassador Program. Taipei, Taiwan.
- 2015 Update in Perioperative Medicine
Society of General Internal Medicine Annual Meeting, Toronto, ON, Canada
- 2015 Diagnosis of Primary Headache Syndromes, New Drugs in Primary Care Practice, Treatment of Depression in Primary Care, Preoperative Cardiac Evaluation, Preoperative Pulmonary Evaluation
Primary Care Update for Family Doctors. Nguyen Tri Phuong Hospital, Ho Chi Minh City, Vietnam
- 2016 Treatment of Primary Headache Syndromes, Primary Care Management of Depression Internal Medicine Update. Cleveland Clinic Abu Dhabi and American College of Physicians, Gulf Chapter. American College of Physicians Ambassadors Program. Abu Dhabi, United Arab Emirates
- 2016 Preoperative Pulmonary Evaluation, Depression in Primary Care, Screening for Lung Cancer, Treatment of Primary Headache Syndromes, Hypertension, New Drugs in Primary Care Practice
MCE Conferences, Playa del Carmen, Mexico
- 2016 Disparities in Hypertension Management / Keynote Lecture. Caribbean Cardiology Society and the Caribbean Chapter of the American College of Physicians. ACP Representative. Bridgetown, Barbados.
- 2017 Multiple Small Feedings of the Mind: Novel Anticoagulants, and Migraine. New Drugs for Primary Care, Diagnostic Dilemmas in Primary Care. Invited Lectures
American College of Physicians International Ambassador. 4th Qatar Medical Conference. Hamad Medical Corporation. Doha, Qatar.
- 2019 Preoperative Cardiac Evaluation, Diagnosis of Primary Headache Syndromes, Treatment of Migraine, Depression, Diagnostic Dilemmas, New Drugs for Primary Care.
MCE Conferences, Montego Bay, Jamaica.
- 2022 Challenging Diagnostic Dilemmas in Primary Care, Top Drugs for Primary Care, Preoperative Evaluation for Cardiac Risk, Primary Care Management of Depression
Hot Topics in Primary Care
Symposia Medicus, Grand Cayman, Cayman Islands

REPORT OF CLINICAL ACTIVITIES AND INNOVATIONS

Current Licensure and Certification:

1985 National Board of Medical Examiners, Diplomate
 1986- Massachusetts Medical License
 1987- American Board of Internal Medicine, Diplomate

Practice Activities:

1987-1990	Walk-In Ambulatory Staff Physician	Medical Walk-In Unit, Beth Israel Hospital	2 half-day sessions per week
1987-1992	Inpatient Consultation	Medical Consultation Service, Beth Israel Hospital	Daily for 8-9 months per year
1987-	Ambulatory Primary Care, Staff Physician	Healthcare Associates, Beth Israel Deaconess Medical Center	3 to 5 half-day sessions per week
1987-2006	Inpatient Care Attending Physician	Admission of primary care patients Beth Israel Deaconess Medical Center	5-15 hours per week

Clinical Innovations:

1987-1992 Director, Medical Consultation Service, Beth Israel Hospital
 Developed a new resident based general medicine inpatient consultation service with a concentration on perioperative medical evaluation. Developed syllabus material that addressed core competencies. Consult service exists to this day with the aim of improving perioperative care and reducing medical complications of surgery.

2006 Lead Author, Guideline from the American College of Physicians on Preoperative Pulmonary Evaluation
 Led the development of the first published systematic review on preoperative pulmonary evaluation and risk reduction strategies that formed the basis of a new guideline for the American College of Physicians. This became the standard reference work in this field and influenced perioperative care and management nationally and internationally.

2006-2009 Writing Committee, American College of Cardiology Foundation and American Heart Association task force: Performance Measures for Primary Prevention of Cardiovascular Disease in Adults
 Co-wrote a national consensus document that established performance measures for the prevention of cardiovascular disease in primary care practice. Served as potential basis for quality metrics for physicians and hospitals. Provides guidance to clinicians on desired goals for prevention of cardiovascular disease.

2009-2011 Rating Panels, American College of Cardiology Foundation and collaborating societies: 1) Appropriate Use Criteria for Cardiac Computed Tomography, and 2) Appropriate Use Criteria for Imaging in Patients with Heart Failure. Panels that aimed to establish national standards for the use of advance cardiovascular imaging in common clinical scenarios in both primary care and specialty practices.

REPORT OF EDUCATION OF PATIENTS AND SERVICE TO THE COMMUNITY

Those presentations below sponsored by outside entities are so noted and the sponsor is identified

Educational Material for Patients and the Lay Community:Patient Educational Material:

1999	Frequently Asked Questions: eight separate topics on migraine, asthma, and low back pain	Author	Commissioned by Medscape Previously available at: http://healthwatch.medscape.com
2000-2001	Ask the Expert: Migraine Thirty-one separate topic areas on common questions	Author	Commissioned by Medscape Previously available at: http://healthwatch.medscape.com
2000	Ten Frequently Asked Questions about Hypertension	Author	Commissioned by MyPotential.com. Previously available at: www.mypotential.com
2017	Concerned About Your Headache or Migraine? A Harvard Professor Breaks Down the Different Types of Headache	Interview	Available at: www.buoyhealth.com

Recognition:

2000, 2002 - 2003, 2005-2023	Best Doctor	Best Doctors in America Peer survey of Boston-area physicians
2003-2005, 2007-2014	Guide to America's Top Physicians	Consumers' Research Council of America
2004, 2009	Boston Area's Top Doctors: Internal Medicine.	Peer survey of Boston-area physicians. Boston Consumer's Checkbook
2006-2008, 2013-2014, 2017-2023	Best of Boston Top Doctors: Internal Medicine	Boston Magazine
2009-2012	Patients' Choice Award	Patients' Choice
2013	Compassionate Caregiver Award	Schwartz Center for Compassionate Healthcare

REPORT OF SCHOLARSHIP**Peer-Reviewed Publications:**Research Investigations:

1. **Smetana GW**, Davis RB, Phillips RS. Factors that influence patient response to requests to change to a unified restrictive formulary: a prospective study. *J Gen Intern Med* 2004;19:1212-1219.
2. Evans KL, Brown SR, **Smetana GW**. Sample closet medications are neither novel nor useful: a cross-sectional study. *J Am Board Fam Med* 2013;26:380-387.

3. Griffiths SV, Conway, DH, **POPC-CB Investigators**, Sander M, Jammer I, Grocott MPW, Creagh-Brown BC. What are the optimum components in a care bundle aimed at reducing post-operative pulmonary complications in high-risk patients? *Perioperative Medicine* 2018 Apr 17;7:7. doi: 10.1186/s13741-018-0084-9

Systematic Reviews:

4. **Smetana GW**. The diagnostic value of historical features in primary headache syndromes: a comprehensive review. *Arch Intern Med* 2000;160:2729-2737.
5. **Smetana GW**, Shmerling RH. Does this patient have temporal arteritis? *JAMA* 2002;287:92-101.
6. **Smetana GW**, Lawrence VA, Cornell JE. Preoperative pulmonary risk stratification for noncardiothoracic surgery: systematic review for the American College of Physicians. *Ann Intern Med* 2006;144:581-595.
7. Lawrence VA, Cornell JE, **Smetana GW**. Strategies to reduce postoperative pulmonary complications after noncardiothoracic surgery: systematic review for the American College of Physicians. *Ann Intern Med* 2006;144:596-608.
8. **Smetana GW**, Landon BE, Bindman AB, Burstin H, Davis RB, Tjia J, Rich EC. A comparison of outcomes resulting from generalist versus specialist care for a single discrete medical condition: a systematic review and methodologic critique. *Arch Intern Med* 2007;167:10-20.
9. Gordon CE, Feller-Kopman D, Balk EM, **Smetana GW**. Pneumothorax following thoracentesis: a systematic review and meta-analysis. *Arch Intern Med* 2010;170:332.
10. Huang GC, McSparron JI, Balk EM, Richards JB, Smith CC, Whelan JS, Newman LR, **Smetana GW**. Procedural instruction in invasive bedside procedures: a systematic review and meta-analysis of effective teaching approaches. *BMJ Quality & Safety* 2016;25:281-294.
11. Daneschvar HL, **Smetana GW**, Brindamour L, Bain PA, Mukamal KJ. Impact of coffee consumption on physiological markers of cardiovascular risk: a systematic review. *Am J Med* 2021;134:626-636

Other Peer-Reviewed Publications:

Narrative Reviews:

12. **Smetana GW**. Preoperative pulmonary evaluation. *N Engl J Med* 1999;340:937-44.
13. **Smetana GW**, Macpherson DS. The case against routine preoperative laboratory testing. *Med Clin N Amer* 2003;87:7-40.
14. **Smetana GW**. Preoperative pulmonary assessment of the older adult. *Clin Geriatr Med* 2003;19:35-55.
15. **Smetana GW**, Cohn SL, Lawrence VA. Update in perioperative medicine. *Ann Intern Med* 2004;140:452-461.

16. Conde MV, **Smetana GW**. Estimating and reducing perioperative pulmonary risk for non-cardiothoracic surgery. *The Hospitalist* (Jan) 2005 (suppl). p. 14-20.
17. **Smetana GW**, Cohn SL, Mercado DL, Jaffer AK. Update in perioperative medicine. *J Gen Intern Med* 2006;21:1329-1337.
18. **Smetana GW**. Preoperative pulmonary evaluation. Identifying and reducing risks for pulmonary complications. *Cleve Clin J Med* 2006;73(suppl 1):S36-S41.
19. Mercado DL, Ling DY, **Smetana GW**. Perioperative cardiac evaluation: novel interventions and clinical challenges. *South Med J* 2007;100:486-492.
20. **Smetana GW**. Clinical Crossroads: A 68-year-old man with COPD contemplating colon cancer surgery. *JAMA* 2007;297:2121-2130.
21. Cohn SL, **Smetana GW**. Update in perioperative medicine. *Ann Intern Med* 2007;147:263-270.
22. **Smetana GW**, Shmerling RH. Does this patient have temporal arteritis? Update: temporal arteritis. In: Simel DL, Rennie D, editors. *JAMA evidence: The rational clinical examination: evidence-based clinical diagnosis*. New York: McGraw-Hill, 2008. p. 643-658.
23. **Smetana GW**, Conde MV. Preoperative pulmonary update. *Clin Geriatr Med* 2008;24:607-624.
24. **Smetana GW**, Sillman JS. Update in new medications for primary care. *JGIM* 2009;24:111-117.
25. Tess AV, **Smetana GW**. Medical evaluation of the patient undergoing electroconvulsive therapy. *N Engl J Med* 2009;360:1437-1444.
26. Sweitzer BJ, **Smetana GW**. Identification and evaluation of the patient with lung disease. *Med Clin N Amer* 2009;93:1017-1030.
27. **Smetana GW**. Postoperative pulmonary complications: an update on risk assessment and risk reduction. *Cleve Clin J Med* 2009;76 (suppl 4):S60-S65.
28. Jaffer AK, **Smetana GW**, Cohn S, Slawski B. Perioperative medicine update. *JGIM* 2009;24:863-871.
29. Sweitzer BJ, **Smetana GW**. Identification and evaluation of the patient with lung disease. *Anesthesiol Clin N Amer* 2009;27:637-686.
30. **Smetana GW**, Sillman JS. Update in new medications for primary care. *JGIM* 2010;25:261-269.
31. Pfeifer K, Mauck KF, Cohn SL, Jaffer AK, **Smetana GW**. Update in perioperative medicine. *JGIM* 2010; 25:1346-1351.
32. **Smetana GW**, Sillman JS. Update in new medications for primary care. *JGIM* 2011;26:427-432.
33. Grant PJ, Cohn SL, Jaffer AK, **Smetana GW**. Update in perioperative medicine 2011. *JGIM* 2011;26:1358-1363.

34. Sundar E, Chang J, **Smetana GW**. Perioperative screening for and management of patients with obstructive sleep apnea – a critical review. *Journal of Clinical Outcomes Management*: 2011;18(9):September 2011.
35. Fani Srour J, **Smetana GW**. Triple therapy in hospitalized patients: facts and controversies. *J Hosp Med* 2011;6:537-545.
36. Menard GE, Grant PJ, Cohn SL, **Smetana GW**. Update in perioperative medicine 2012. *Hospital Practice* 2013;41:85-91.
37. Cohn SL, Mauck KF, Dutta S, Jaffer A, **Smetana GW**. Update in perioperative medicine 2013. *Hosp Pract* 2013;41:15-23.
38. Slawski BA, Cohn SL, Pfeifer KJ, Dutta S, Jaffer AK, **Smetana GW**. Perioperative cardiovascular medicine: an update of the literature 2013-2014. *Hosp Practice* 2014;42(4):126-134.
39. **Smetana GW**, Pfeifer KJ, Slawski BA, Jaffer AK, Dutta S, Cohn SL. Risk factors for postoperative pulmonary complications – an update. *Hosp Practice* 2014;42(5):126-131.
40. Dutta S, Jaffer AK, Slawski BA, Pfeifer KJ, **Smetana GW**, Cohn SL. Perioperative anticoagulation and renal disease: an update of the literature. *Hosp Practice* 2014(5);42:132-138.
41. Pfeifer KJ, Slawski BA, **Smetana GW**. Perioperative pulmonary management of the elderly patients. *Current Geriatric Reports* 2015 (e-pub ahead of press).
42. **Smetana GW**, Boiselle PM, Schwartzstein RM. Beyond the guidelines. Screening for lung cancer with low dose computed tomography. Grand rounds discussion from the Beth Israel Deaconess Medical Center. *Ann Intern Med* 2015;162:577-582.
43. Mittleman MA, Taylor WC, **Smetana GW**, Burns RB. Treatment of blood cholesterol to reduce the risk of atherosclerotic cardiovascular disease in adults. Grand rounds discussion from the Beth Israel Deaconess Medical Center. *Ann Intern Med* 2015;163:280-290.
44. Daneschvar HL, Aronson MD, **Smetana GW**. Do statins prevent Alzheimer’s disease? A narrative review. *European J Intern Med* 2015;26:666-669.
45. Daneschvar HL, Aronson MD, **Smetana GW**. FDA approved anti-obesity drugs in the United States. *Am J Med* 2016 March (epub ahead of press).
46. Lakshminarasimhachar A, **Smetana GW**. Preoperative evaluation: estimation of pulmonary risk. *Anesthesiology Clinics* 2016;34:71-88.
47. Dutta S, Cohn SL, Pfeifer KJ, Slawski BA, **Smetana GW**, Jaffer AK. Updates in perioperative medicine. *J Hosp Med* 2016;11:231-236.
48. **Smetana GW**, Cutlip DE, Pinto DS. Screening for coronary artery disease in asymptomatic persons. Grand rounds discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2016;164:479-4870

49. **Smetana GW**. Update on novel drugs for primary care practice: Drugs approved by FDA in 2015. *Ann Intern Med* 2016;164:W48-W54.
50. Burns RB, Bates, CK, Hartzband P, **Smetana GW**. Should we treat for subclinical hypothyroidism? Grand rounds discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2016;164:764-770.
51. Cohn SL, Dutta S, Slawski BA, Grant P, **Smetana GW**. Update in perioperative cardiac medicine. *Cleve Clin J Med* 2016;83:723-730.
52. **Smetana GW**, Abrahamson MJ, Rind DM. Would you screen this patient for type 2 diabetes? Grand rounds discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2016;165:509-516
53. Litkowski PE, **Smetana GW**, Zeidel ML, Blanchard MS. Curbing the urge to image. The Alliance for Academic Internal Medicine. *AAIM Perspectives*. *Am J Med* 2016;129:1131-1135.
54. **Smetana GW**, Jones DB, Wee CC. Should this patient have weight loss surgery? Grand Rounds discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2017;166:808-817
55. Burns RB, **Smetana GW**, Brady R. Should this patient receive an antidepressant? Grand Rounds discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2017;167:192-199.
56. **Smetana GW**, Mukamal KJ, Schermerhorn M. Should this patient be screened for carotid artery stenosis? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2017;167:484-492.
57. Munyon R, Cohn SL, Slawski BA, **Smetana GW**, Pfeifer KJ. 2017 Update in perioperative medicine: 6 questions answered. *Cleve Clin J Med* 2017;84:863-872.
58. Burns RB, Rosen H, Berry S, **Smetana GW**. How would you manage this patient with osteoporosis? Grand Rounds discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2018;168:801-808.
59. Pfeifer KJ, **Smetana GW**. Pulmonary risk assessment and optimization. *Hosp Med Clinics* 2018. (in press).
60. **Smetana GW**, Beach J, Lipsitz L. What Should Be the Target Blood Pressure for This Older Patient with Hypertension? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2018;169:175-182.
61. **Smetana GW**, Elmore JG, Lee CI, Burns RB. Should this woman with dense breasts receive supplemental screening? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Presented at ACP Internal Medicine 2018. *Ann Intern Med* 2018;169:474-484.
62. Burns RB, Olumi AF, Owens DK, **Smetana GW**. Would you screen this patient for prostate cancer? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2019;170:770-778.

63. **Smetana GW**, Nathan DM, Dugdale DC, Burns RB. To what target A1c would you treat this patient with type 2 diabetes? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Presented at ACP Internal Medicine 2019. *Ann Intern Med* 2019;171:505-513.
64. Burns RB, Zimetbaum P, Lubitz, S. **Smetana GW**. Would you screen this patient for atrial fibrillation? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2019;171:828-836.
65. Burns RB, Anandiah A, Rice M, **Smetana GW**. Should you recommend inhaled corticosteroids for this patient with chronic obstructive pulmonary disease? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med*. 2020;172:735-742
66. **Smetana GW**, Vassy JL, Hofstatter E, Libman H. Should you recommend direct to consumer genetic testing for this patient? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med*. 2020;173:563-571.
67. **Smetana GW**, Tetrault JM, Hill KP, Burns RB. Should you recommend cannabinoids for this patient with painful neuropathy? *Ann Intern Med* 2021;174:237-246.
68. Libman H, Cohen M, Irwig M, **Smetana GW**. How would you manage this male patient with hypogonadism? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2021;174:1133-1142.
69. **Smetana GW**, Benson MD, Juraschek SP, Burns RB. Would you prescribe a statin for this patient at risk for cardiovascular disease? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2022;175:862-872.
70. Libman H, Zhou ES, Heckman E, **Smetana GW**. How would you manage this patient with chronic insomnia? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2022;175:1746-1753.
71. **Smetana GW**, Smith CC, Singla A, Libman H. How would you manage this patient with benign prostatic hyperplasia? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. *Ann Intern Med* 2023 (in press).

Online Monographs:

72. **Smetana GW**, Lawrence VA. Preoperative pulmonary risk assessment. In: Goldmann DR, editor. Physician's information and education resource (PIER). American College of Physicians. Philadelphia; 2001. Previously available at <http://pier.acponline.org>.
73. **Smetana GW**. Preoperative medical evaluation of the healthy patient. In: Rose BD, editor. UpToDate. Version 6.1 and subsequent versions. Waltham: UpToDate; 1998-. Available at <http://www.uptodate.com>.
74. **Smetana GW**. Evaluation of preoperative pulmonary risk. In: Rose BD, editor. UpToDate. Version 6.3 and subsequent versions. Waltham: UpToDate; 1998-. Available at <http://www.uptodate.com>.

75. **Smetana GW**. Strategies to reduce postoperative pulmonary complications. In: Rose BD, editor. UpToDate. Version 6.3 and subsequent versions. Waltham: UpToDate; 1998-2022. Available at <http://www.uptodate.com>.
76. **Smetana GW**. Approach to the patient with night sweats. In: Rose BD, editor. UpToDate. Version 8.3 and subsequent versions. Waltham: UpToDate; 2000-. Available at <http://www.uptodate.com>.
77. Tess AV, **Smetana GW**. Medical consultation for electroconvulsive therapy. In: Rose BD, editor. UpToDate. Version 10.1 and subsequent versions. Waltham: UpToDate; 2002-. Available at <http://www.uptodate.com>.
78. Alexandraki I, **Smetana GW**. Prevention and management of gastroenteritis in adults. In: Basow D, editor. UpToDate. Version 24.1 and subsequent versions. Waltham: UpToDate; 2013-. Available at www.uptodate.com.
79. Kher S and **Smetana GW**. Pulmonary risk management in the perioperative setting. SHM Education Learning Portal. Society of Hospital Medicine, Philadelphia PA. 2018. Available at: <https://www.shmlearningportal.org/content/pulmonary-risk-management-perioperative-setting>.
80. **Smetana GW**, Pfeifer K (new co-author from 2022 onward). Strategies to reduce postoperative pulmonary complications in adults. In: UpToDate. Waltham: UpToDate; 2022-. Available at <http://www.uptodate.com>

Case Reports:

81. **Smetana GW**. Primary psoas abscess due to *Fusobacterium nucleatum*. Scand J Infect Dis 1999;31:319-321.
82. Fani Srour J, Braza J, **Smetana GW**. A pain in the bone. J Hosp Med 2010;5:107-112.

Non-Peer Reviewed Scientific or Medical Publications/Materials in Print or Other Media:

Reviews, Chapters, Monographs and Editorials:

Narrative Reviews:

1. Pinkowish MD, Palda VA, **Smetana GW**, Ziring BS. The preoperative evaluation for noncardiac surgery: less is more. Patient Care 2000;34(6):110-135
2. Pelus S, Eagle KA, **Smetana GW**. Preoperative risk reduction: what the new guidelines offer for preoperative risk reduction. Patient Care 2006;40:18-25
3. Carbo AR, **Smetana GW**. How to prevent pulmonary problems in surgery. Vetting the American College of Physicians guidelines on perioperative pulmonary complications. Contemporary Surgery 2008;64:566-570
4. Torres-Finnerty N, **Smetana GW**. The added value of comanagement: what is the evidence? Society

of Perioperative Assessment and Quality Improvement Newsletter 2010;4(3):4-6. Available at: www.spaqi.org

Chapters:

5. **Smetana GW**. Preoperative pulmonary evaluation: risk factors and risk-reduction strategies. In: Peters GA, Peters BJ, editors. Sourcebook on asbestos diseases. Charlottesville: Lexis Publishing; 1999. p. 197-218. (Peters GA, Peters BJ, editors. Asbestos exposure and disease control; vol. 20).
6. **Smetana GW**. Historical features in primary headache syndromes. In: Warfield CA, Bajwa ZH, editors. Principles and practice of pain management. 2nd edition. New York: McGraw-Hill; 2003. p. 194-203.
7. **Smetana GW**. Medical evaluation of the surgical patient. In: Kasper DL, Braunwald E, Fauci AS, Hauser SL, Longo DL, Jameson JL, editors. Harrison's Principles of Internal Medicine. 16th edition. New York: McGraw-Hill; 2004. p. 38-43.
8. **Smetana GW**, Shmerling RH: Large vessel vasculitis-temporal (giant cell) arteritis and polymyalgia rheumatica. In: Erkan D, Levine SR, editors. Neurologic involvement in systemic autoimmune disorders, Volume 3 in the series: Handbook of systemic autoimmune diseases. Amsterdam, The Netherlands: Elsevier B.V. 2004. p. 161-179.
9. Heffernan JJ, Witzburg RA, **Smetana GW**. Medical evaluation of the patient undergoing surgery. In: Noble J, Greene HL, Levinson W, Modest GA, Mulrow CD, Scherger JE, Young MJ, editors. Textbook of primary care medicine. 3rd edition. St. Louis: Mosby; 2001. p. 140-157.
10. **Smetana GW**. Sixteen separate chapters on case studies in perioperative medicine. Details on request. In: Mercado DL, Smetana GW, editors. Medical consultation pearls. Philadelphia: Hanley & Belfus; 2002
11. **Smetana GW**. Headache. In: Tierney LM, Henderson MC, editors. The patient history: evidence-based approach. Lange Medical Series. New York: McGraw-Hill; 2005. p. 65-75.
12. Davis G, Henderson MC, **Smetana GW**. The evidence based approach to clinical decision making. In: Tierney LM, Henderson MC, editors. The patient history: evidence-based approach. Lange Medical Series. New York: McGraw-Hill; 2005.p. 29-34.
13. Carbo AR, **Smetana GW**. Diarrhea. In: Tierney LM, Henderson MC, editors. The patient history: evidence-based approach. Lange Medical Series. New York: McGraw-Hill; 2005. p. 281-287.
14. Feinbloom D, **Smetana GW**. Night sweats. In: Tierney LM, Henderson MC, editors. The patient history: evidence-based approach. Lange Medical Series. New York: McGraw-Hill; 2005. p. 97-106.
15. Gilbert K, **Smetana GW**, Lewis JB. Assessing perioperative risk. In: Cohn SL, **Smetana GW**, Weed H, editors. Perioperative medicine: just the facts. New York: McGraw-Hill; 2006. p. 9-16.
16. Macpherson DS, **Smetana GW**. Preoperative testing. In: Cohn SL, **Smetana GW**, Weed H, editors. Perioperative medicine: just the facts. New York: McGraw-Hill; 2006. p. 22-27.
17. Porter JD, **Smetana GW**. Thoracic surgery and lung resection. In: Cohn SL, **Smetana GW**, Weed H,

- editors. Perioperative medicine: just the facts. New York: McGraw-Hill; 2006. p. 54-60.
18. **Smetana GW**, Conde MV. Pulmonary evaluation. In: Cohn SL, **Smetana GW**, Weed H, editors. Perioperative medicine: just the facts. New York: McGraw-Hill; 2006. p. 135-141.
 19. Arozullah AM, **Smetana GW**. Pneumonia and atelectasis. In: Cohn SL, **Smetana GW**, Weed H, editors. Perioperative medicine: just the facts. New York: McGraw-Hill; 2006. p. 297-301.
 20. Pak M, **Smetana GW**. Preoperative pulmonary evaluation. In: Glasheen JJ, editor. Hospital Medicine Secrets. Philadelphia: Mosby Elsevier; 2007. p. 490-494.
 21. **Smetana GW**. Principles of medical consultation. In: Goldman L, Ausiello D, editors. Cecil medicine. 23rd edition. Philadelphia: Saunders Elsevier; 2007. p. 2895-2897.
 22. Ashton RW, Gajic O, **Smetana GW**. Preoperative pulmonary evaluation. In: Williams MV, Flanders SA, Whitcomb WF, Cohn SL, Michota FA, Holman R, Gross R, Merli G, editors. Comprehensive hospital medicine. Philadelphia: Elsevier; 2007. p. 783-787
 23. **Smetana GW**. Principles of medical consultation. In: Goldman L, Schafer DI, editors. Cecil medicine. 24th edition. Philadelphia: Saunders Elsevier; 2011. p. 2474-2477.
 24. Pfeiffer K, **Smetana GW**. Perioperative assessment and management. Pulmonary disorders. Preoperative risk assessment. In: McKean S, Ross JJ, Dressler DD, Brotman DJ, Ginsberg JS, editors. The principles and practice of hospital medicine. American College of Physicians. New York: McGraw Hill; 2012. p. 365-370.
 25. **Smetana GW**. Headache. In: Henderson MC, Tierney LM, **Smetana GW**, editors. The patient history: evidence-based approach to differential diagnosis. Lange Medical Series. 2nd edition. New York: McGraw-Hill; 2012. p. 67-81.
 26. Wilson MC, Henderson MC, **Smetana GW**. Evidence based clinical decision making. In: Henderson MC, Tierney LM, **Smetana GW**, editors. The patient history: evidence-based approach to differential diagnosis. Lange Medical Series. 2nd edition. New York: McGraw-Hill; 2012. p. 27-34.
 27. Carbo AR, **Smetana GW**. Diarrhea. In: Henderson MC, Tierney LM, **Smetana GW**, editors. The patient history: evidence-based approach to differential diagnosis. Lange Medical Series. 2nd edition. New York: McGraw-Hill; 2012. p. 331-340.
 28. Feinbloom D, **Smetana GW**. Night sweats. In: Henderson MC, Tierney LM, **Smetana GW**, editors. The patient history: evidence-based approach to differential diagnosis. Lange Medical Series. 2nd edition. New York: McGraw-Hill; 2012. p. 107-116.
 29. **Smetana GW**. Assessing and managing pulmonary risk. In: Jaffer AK, Grant PJ, editors. Perioperative medicine: Medical consultation and co-management. Society of Hospital Medicine Current Concepts. Hoboken NJ: Wiley-Blackwell; 2012. p. 115-130.
 30. **Smetana GW**. Principles of medical consultation. In: Goldman L, Schafer AI, et al, editors. Goldman-Cecil medicine. 25th edition. Philadelphia: Saunders Elsevier; 2015. P. 2608-2611.

31. **Smetana GW**. Historical features in primary headache syndromes. In: Bajwa ZH, Wooton RJ, Warfield CA, editors. Principles and practice of pain management. 3rd edition. New York: McGraw-Hill; 2016. P. 244-253.
32. Pfeiffer K, **Smetana GW**. Perioperative assessment and management. Pulmonary disorders. Preoperative risk assessment. In: McKean S, Ross JJ, Dressler DD, Scheurer DB, editors. The principles and practice of hospital medicine. 2nd Edition. American College of Physicians. New York: McGraw Hill 2017. pp 336-341.
33. **Smetana GW**. Preoperative pulmonary function testing. In: Sweitzer BJ, ed. Preoperative Assessment and Management. 3rd edition. Philadelphia PA: Wolters Kluwer;2018. pp 209-211.
34. **Smetana GW**. Principles of medical consultation. In: Goldman L, Levinson W, et al, editors. Goldman-Cecil medicine. 26th edition. Philadelphia: Saunders Elsevier; 2019. pp. 2574-2577.
35. Pfeiffer K, **Smetana GW**. Preoperative evaluation. In: Broaddus VC, Ernst JD, King TE, Lazarus SC, Sarmiento KF, Schnapp LM, Stapleton, RD, editors. Murray & Nadel's textbook of respiratory medicine. 7th edition. Philadelphia: Elsevier; 2021 (in press).
36. Cohn SL, **Smetana GW**. Preoperative testing. In: Cohn SL, editor. Decision making in perioperative patient care: Clinical Pearls. New York: McGraw Hill. 2021. pp. 9-16.
37. **Smetana GW**, Pfeiffer K. Pulmonary Disease. In: Cohn SL, editor. Decision making in perioperative patient care: Clinical Pearls. New York: McGraw Hill. 2021. pp. 127-132.
38. **Smetana GW**, Slawski B. Principles of medical consultation. In: Goldman L, Levinson W, et al, editors. Goldman-Cecil medicine. 27th edition. Philadelphia: Saunders Elsevier; 2023. (in press).

Online Monographs:

39. **Smetana GW**. Estimation of cardiac risk prior to noncardiac surgery. In: Braunwald E, Fauci AS, Isselbacher KJ, Kasper DL, Hauser SL, Longo DL, Jameson JL, editors. Harrison's Online. New York: McGraw-Hill; 1999. Available at <http://harrisonsonline.com>.
40. **Smetana GW**. Risk factors for postoperative pulmonary complications. In: Braunwald E, Fauci AS, Isselbacher KJ, Kasper DL, Hauser SL, Longo DL, Jameson JL, editors. Harrison's Online. New York: McGraw-Hill; 2000. Available at <http://harrisonsonline.com>.
41. **Smetana GW**. Preoperative assessment of the healthy patient. In: Braunwald E, Fauci AS, Isselbacher KJ, Kasper DL, Hauser SL, Longo DL, Jameson JL, editors. Harrison's Online. New York: McGraw-Hill; 2000. Available at <http://harrisonsonline.com>
42. **Smetana GW**. Ask the expert: Thirteen separate internal medicine topics for a physician audience. Detailed bibliography on request. Medscape Internal Medicine 2002-2004. Previously available at: <http://www.medscape.com/internalmedicinehome>.
43. Shander A, **Smetana GW**, Brydges G, Lisco S, Restrepo R, Kollef MH. Panel discussion: postoperative pulmonary complication: what is it and what are the perioperative risks? Essential Practices in

Respiratory Care. Saxe Healthcare Communications: Burlington VT. 2011. Available at: www.essential-practices.org.

Editorials:

44. Mukamal KJ, **Smetana GW**, Delbanco TL. Clinicians, educators, and investigators in general internal medicine: bridging the gaps. *J Gen Intern Med* 2002;17:565-571.
45. **Smetana GW**. Rethinking “abnormal” blood pressure: what is the value? *J Gen Intern Med* 2011;26:678-680.
46. **Smetana GW**. Newer is not always better: all antihypertensive medications do not equally reduce cardiovascular risk. *J Gen Intern Med* 2012;27:618-620.
47. **Smetana GW**. The legacy effect: 4.5 years of a chlorthalidone based antihypertensive regimen reduces cardiovascular mortality and prolongs survival at 22 years for elderly patients with isolated systolic hypertension. *Evid Based Med* 2012;17:183-184
48. **Smetana GW**, Umscheid CA, Chang S, Matchar DB. (Editorial) Methods guide for authors of systematic reviews of medical tests: A collaboration between the Agency for Healthcare Research and Quality (ARHQ) and the Journal of General Internal Medicine. *J Gen Intern Med* 2012;27 (suppl 1):1-3.
49. **Smetana GW**. The conundrum of unnecessary preoperative testing. *JAMA Internal Medicine* 2015;175:1359:1361.
50. **Smetana GW**. Triamterene in the treatment of hypertension: more than just potassium sparing? *JGIM* 2016;31:7-8.

Letters:

51. **Smetana GW**. ACE inhibitors versus ARBs versus DRIs: a systematic update [letter]. *J Gen Intern Med* 2012;27:1586.

Books/Textbooks for the Medical or Scientific Community:

1. Mercado DL, **Smetana GW**, editors. *Medical consultation pearls*. Philadelphia: Hanley & Belfus; 2002. Translated into Chinese by Peking University Medical Press, 2005.(227 pages)
2. **Smetana GW**, associate editor. In: Tierney LM, Henderson MC, editors. *The patient history: evidence-based approach*. Lange Medical Series. New York: McGraw-Hill; 2005.(600 pages)
3. Cohn SL, **Smetana GW**, Weed H, editors. *Perioperative medicine: just the facts*. New York: McGraw-Hill; 2006.(360 pages)
4. **Smetana GW**, Umscheid C, Chang S, Matchar D, editors. *Methods guide for medical test reviews [internet]*. A collaboration between the Agency for Healthcare Research (AHRQ) and the Journal of General Internal Medicine. Rockville (MD): Agency for Healthcare Research and Quality (US); 2012

Jun. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK98241/> and J Gen Intern Med supplement, 2012;27 suppl 1.

5. Henderson MC, Tierney LM, **Smetana GW**, editors. The patient history: evidence-based approach to differential diagnosis. 2nd edition. Lange Medical Series. New York. McGraw-Hill; 2012 (738 pages).

Case Reports:

1. **Smetana GW**. Diagnosis of night sweats. JAMA 1993;270:2502-3.
2. **Smetana GW**, Keen P. Case studies and controversies in home defibrillator use. Medscape Internal Medicine 2003. Available at: <http://www.medscape.com/internalmedicinehome>.
3. **Smetana GW**. Chiseling away at a sculptor's prolonged migrainous headaches. Cortlandt Forum. 2000;13(2):51-53.
4. **Smetana GW**. A traveler's bout with headaches. Clinical Advisor 2001;4(1):20-22.

Professional Educational Materials or Reports:

1. **Smetana GW**, editor. Medical consult service syllabus. Beth Israel Hospital. Boston: 1988-1992. Compiled bound reference syllabus for medical consultation on surgical, psychiatric, and obstetrical services at Beth Israel Hospital.
2. **Smetana GW**, Lipsitz LA. A practical approach to falls in the elderly. Stanford University Geriatric Education Resource Center. Palo Alto CA: 1999. A series of case studies and an accompanying slide presentation for use nationally in internal medicine residency programs as a teaching tool. Commissioned by the Hartford Foundation.
3. **Smetana GW**, Associate editor. Preoperative evaluation section. In: Goldmann DR, editor. Physician's information and education resource (PIER). American College of Physicians. Philadelphia; 2001-2005. Available at <http://pier.acponline.org>. Recruited authors, identified topics, and edited manuscripts for a new section on perioperative medicine for PIER. Online access for national audience of American College of Physician members.
4. **Smetana GW**, Bajwa Z, Kleefield J. Multimedia virtual patient: The evaluation of a patient with headache. Carl J. Shapiro Institute for Education and Research at Harvard Medical School and Beth Israel Deaconess Medical Center. Boston: 2002. A CD-ROM and web based interactive tutorial for medical students as part of a nationally distributed virtual patient curriculum. Commissioned by the Macy Foundation.
5. **Smetana GW**, Goodson JD. Hypertension: evidence based treatment and clinical challenges. Department of Continuing Medical Education. Harvard Medical School Online CME. Boston: 2006 and 2014. Available at: <http://cmeonline.med.harvard.edu>. Online interactive case based teaching program for international audience of generalists and other specialists with interest in hypertension.
6. **Smetana GW**. Save yourself a headache: a rational approach to the diagnosis and management of headaches in primary care. In: American College of Physicians Annual Session syllabus. Philadelphia.

2006. Chapter in bound syllabus for attendees at national internal medicine conference.
7. Kher S, **Smetana GW**. Preoperative pulmonary evaluation. In: Feldman L, Horn M, editors. Johns Hopkins Consultative Medicine Essentials for Hospitalists. Baltimore: 2008. Revised 2017. Available at www.jhcme.com. Online interactive case based teaching program for international audience of generalists and hospitalists.
 8. **Smetana GW**. Beeline to spine [Spotlight case]. AHRQ (Agency for Healthcare Research and Quality) WebM&M [serial online]. June 2007. Available at: <http://www.webmm.ahrq.gov/case.aspx?caseID=152>. Accessed June 11, 2007. Cased based teaching module related to patient safety in perioperative medicine. Available online for national audience of generalists.
 9. **Smetana GW**, Shmerling RH. Temporal arteritis. In: Keitz SA, Simel DL, editors. Instructor's guides to JAMA rational clinical examination (Electronic Product: CD-ROM). New York: McGraw-Hill. 2008. Slide set for educators on the value of historical and physical examination features in the diagnosis of temporal arteritis.
 10. **Smetana GW**. Clinical pearls: headache. In: American College of Physicians summer session syllabus.2009. San Francisco. Chapter in bound syllabus for attendees at national internal medicine conference.
 11. **Smetana GW**. Multiple small feedings of the mind: depression. In: American College of Physicians summer session syllabus.2009. San Francisco. Chapter in bound syllabus for attendees at national internal medicine conference.
 12. **Smetana GW**. A 60 year-old smoker preparing for knee surgery. Spirometry and chest radiography: pro and con. In: Feldman L, ed. Controversies in perioperative medicine. 2010. Available at: www.quantiamd.com. An interactive narrated slide presentation as part of a case based instructional series.
 13. **Smetana GW**. Perioperative management of hypertension. In: Audio Digest Foundation. Webcast/podcast. Available at: <http://www.audiodigest.org>. Accessed January 7, 2013.
 14. **Smetana GW**, Boiselle PM, Schwartzstein, RM. Screening for lung cancer with low-dose computed tomography. Online conference video presentation, and associated maintenance of certification (MOC) questions. 2015. Available at: www.annals.org.
 15. Burns RB, Mittleman MA, Taylor WC, **Smetana GW**. Beyond the guidelines. Treatment of blood cholesterol to reduce the risk of atherosclerotic cardiovascular disease in adults. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2015. Available at: www.annals.org.
 16. **Smetana GW**. Hypertension: An update. An online, interactive, multi-language video on-demand learning activity. LiveMed International University. Primary Care International Updates. 2015. Available at www.livemed.org.
 17. Cohn SL, **Smetana GW**, Dutta S. Update in perioperative medicine. Audio Digest Foundation. 2015. Available at: www.audio-digest.com. Accessed Sept. 21, 2015.

18. **Smetana GW**, Cutlip DE, Pinto DS. Beyond the guidelines. Screening for coronary heart disease in asymptomatic persons. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2016. Available at: www.annals.org.
19. Burns RB, Bates, CK, Hartzband P, **Smetana GW**. Beyond the guidelines. Should you for subclinical hypothyroidism? Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2016. Available at: www.annals.org.
20. **Smetana GW**, Jones DB, Wee CC. Should this patient have bariatric surgery? Grand Rounds discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2017. Available at: www.annals.org.
21. Burns RB, **Smetana GW**, Brady R. Would you start this patient on anti-depressant medication? Grand Rounds discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2017. Available at: www.annals.org.
22. Smetana GW, Mukamal KJ, Schermerhorn M. Should this patient be screened for carotid artery stenosis? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2017. Available at: www.annals.org.
23. **Smetana GW**, Semine MC, Garnick MB. Lung cancer screening recommendations and the pulmonary navigator program. CRICO Risk Management Foundation. Live webinar. 2017
24. Burns RB, Rosen H, Berry S, **Smetana GW**. How would you manage this patient with osteoporosis? Grand Rounds discussion from Beth Israel Deaconess Medical Center. Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2018 Available at www.annals.org.
25. **Smetana GW**, Beach J, Lipsitz L. What Should Be the Target Blood Pressure for This Older Patient With Hypertension? Grand Rounds Discussion From Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2018. Available at www.annals.org.
26. **Smetana GW**, Elmore JG, Lee CI, Burns RB. Would you recommend supplemental breast cancer screening for this woman with dense breasts? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Presented at ACP Internal Medicine 2018. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2018 Available at www.annals.org.
27. **Smetana GW, et al**. NEJM Resident 360, expert panelist. Ask the Experts: Perioperative management. Available at: <https://resident360.nejm.org/discussions/723>. February 13-22, 2019. Last accessed February 12, 2019
28. **Smetana GW**. Nathan DM, Dugdale DC, Burns RB. To what target A1c would you treat this patient with type 2 diabetes? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Grand Rounds Discussion from Beth Israel Deaconess Medical Center presented at ACP Internal Medicine 2019. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2019 Available at www.annals.org.

29. Burns RB, Zimetbaum P, Lubitz, S. **Smetana GW**. Would you screen this patient for atrial fibrillation? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2019. Available at www.annals.org
30. Burns RB, Anandiah A, Rice M, **Smetana GW**. Should you recommend inhaled corticosteroids for this patient with chronic obstructive pulmonary disease? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2019. Available at www.annals.org
31. **Smetana GW**, Vassy JL, Hofstatter E, Libman H. Would you recommend direct to consumer genetic testing for this patient? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2020. Available at www.annals.org
32. **Smetana GW**, Hill KP, Tetrault JM, Burns RB. Would you recommend cannabinoids for this patient with painful neuropathy? Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2020. Available at www.annals.org
33. **Smetana GW**, Hofstatter E. Direct to consumer genetic testing; a conversation. Video webcast and enduring materials. Medical Economics. 2020. Available at: <https://www.medicaleconomics.com/>
34. Libman H, Cohen M, Irwig M, **Smetana GW**. How would you manage this male patient with hypogonadism? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2021. Available at www.annals.org.
35. **Smetana GW**, Benson MD, Juraschek SP, Burns RB. Would you prescribe a statin for this patient at risk for cardiovascular disease? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2021
36. Libman H, Zhou ES, Heckman E, **Smetana GW**. How would you manage this patient with chronic insomnia? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2022.
37. **Smetana GW**, Smith CC, Singla A, Libman H. How would you manage this patient with benign prostatic hyperplasia? Grand Rounds Discussion from Beth Israel Deaconess Medical Center. Online conference, video presentation, and associated maintenance of certification (MOC) questions. 2022.

Clinical Guidelines and Reports:

1. Epstein L, Amoroso T, **Smetana GW**. Syncope interdisciplinary practice guideline. Beth Israel Deaconess Medical Center. Boston. 1998.
Clinical practice guideline commissioned by Beth Israel Deaconess Medical Center for use by clinicians as an institutional practice guideline.
2. Qaseem A, Snow V, Fitterman N, Hornbake ER, Lawrence VA, **Smetana GW**, Weiss K, Owens DK, for the Clinical Efficacy Assessment Subcommittee of the American College of Physicians. Risk

assessment and strategies to reduce perioperative pulmonary complications for patients undergoing non-cardiothoracic surgery. A guideline from the American College of Physicians. *Ann Intern Med* 2006;144:575-580.

A national guideline to establish optimal standards of care for estimation of preoperative pulmonary risk and recommended strategies to reduce risk. Co-lead investigator for accompanying systematic reviews and member of ad hoc committee to develop guideline.

3. Redberg RF, Benjamin EJ, Bittner V, Braun LT, Goff DC, Havas S, Labarthe DR, Limacher MC, Lloyd-Jones DM, Mora S, Pearson TA, Radford MJ, **Smetana GW**, Spertus JA, Swegler E. ACCF/AHA 2009 performance measures for primary prevention of cardiovascular disease in adults. A report of the American College of Cardiology Foundation / American Heart Association task force on performance measures (Writing committee to develop performance measures for primary prevention of cardiovascular disease). Developed in Collaboration with the American Academy of Family Physicians; American Association of Cardiovascular and Pulmonary Rehabilitation; and Preventive Cardiovascular Nurses Association. *J Am Coll Cardiol* 2009;54:1364-1405 **and** *Circulation* 2009;120:1296-1336.
A national document to establish performance measures for prevention of cardiovascular disease in primary care. Member of collaborative writing committee. Official representative of the American College of Physicians.
4. National Quality Forum (NQF). National voluntary consensus standards for clinicians – additional performance measures 2008: a consensus report. Washington, DC: NQF; 2009.
A national document commissioned by the Center for Medicare Services (CMS) to establish voluntary consensus standards for perioperative care. Evaluated and selected measures as part of steering committee. Official representative of the American College of Physicians
5. Taylor AJ, Cerqueira M, Hodgson J, Kramer CM, Berman D, Brown A, Chaudhry FA, Cury RC, Desai MY, Einstein AJ, Gomes AS, Harrington R, Hoffmann U, Khare R, Lesser J, McGann C, Rosenberg A, Schwartz R, Shelton M, **Smetana GW**, Smith SC Jr. ACCF/SCCT/ACR/AHA/ASE/ASNC/SCAI/ SCMR 2010 Appropriate Use Criteria for Cardiac Computed Tomography. A Report of the American College of Cardiology Foundation Appropriate Use Criteria Task Force, the Society of Cardiovascular Computed Tomography, the American Society of Nuclear Cardiology, the American College of Radiology, the American Heart Association, the American Society of Echocardiography, the Society for Cardiovascular Angiography and Interventions, and the Society for Cardiovascular Magnetic Resonance. *Circulation* 2010;122:e525-555, **and** *J Am Coll Cardiol* 2010;56:1864-1894 **and** *J Cardiovasc Comput Tomogr* 2010;407:e1-33.
A national document to guide the appropriate use of the emerging technology of cardiac computed tomography across multiple clinical scenarios. American College of Physicians representative.
6. Memtsoudis SG, Hargett M, Russell LA, Parvizi J, Cats-Baril WL, Stundner O, Sculco TP, for the Consensus Conference on Bilateral Total Knee Arthroplasty Group: Bader A, Beckman J, Correll D, Faris P, Della Valle AG, Haas SB, Heerd P, Incavo S, Kim R, Krauser D, Lieberman J, Levin L, Mantilla C, Mazumdar M, McCoy T, Memtsoudis S, Nurok M, Odum SM, Parks M, Parvizi J, Poultsides L, Rasouli MR, Russell L, Sculco TP, Sierra R, **Smetana G**, Springer B, Stundner O, Urban MK, Waxman A, Wu CL. Consensus statement from the consensus conference on bilateral total knee arthroplasty group. *Clin Orthop Relat Res* 2013;471:2649-2657.
Report of a multi-disciplinary consensus committee tasked with evaluating candidacy for simultaneous bilateral knee arthroplasty and the optimal preoperative evaluation.

7. Arron MJ, Wardop RM, Richter JM, **Smetana GW**. Choosing Wisely Campaign: Don't perform routine preoperative testing before low-risk surgical procedures. Society of General Internal Medicine. Revised Feb 15, 2017. *Update of an earlier position statement for the nationally organized Choosing Wisely campaign, the goal of which is to educate patients and physicians regarding tests that they should question.*

NARRATIVE REPORT

I have been a member of the full time academic faculty in the Division of General at Beth Israel Deaconess Medical Center (formerly Beth Israel Hospital) since 1987. My principal contributions are 1) a primary care internal medicine practice, 2) the teaching of medical students, residents and senior physicians, 3) leadership in continuing medical education, 4) national leadership and guideline development in the field of perioperative medicine, and 5) the publication of scholarly articles and textbooks on topics that include perioperative medicine, headache, and evidence based history taking.

I am a staff physician in Healthcare Associates, the hospital based primary care internal medicine practice at Beth Israel Deaconess Medical Center. I care for a panel of patients that is weighted towards those with multiple chronic illnesses and high disease complexity. In a national survey, physician peers have repeatedly selected me as one of the best primary care physicians in America. In 1987, I developed the first general medicine consultation service at Beth Israel Hospital. This experience encouraged me to expand my expertise and reach in perioperative medicine to broader national audiences.

One of my core missions and contributions is the education of physicians and other primary care clinicians on local, national, and international scales. I achieve this through leadership in continuing medical education, guideline development, and publication of articles in textbooks and the peer reviewed literature that provide summary guidance on clinical topics and improve clinical care. Approximately one third of my professional time is devoted to teaching. I am an advisor and clinical preceptor to internal medicine residents in the ambulatory setting. In 1992, I was selected as the Herrman L. Blumgart associate firm chief in the Department of Medicine; a position which I held for 10 years. While in this role, I received an award from the medical housestaff at Beth Israel Hospital as the outstanding teacher and advisor in the training program.

I have developed and direct the Picker Fellowship in Evidence Based Medicine, a new fellowship to train junior general medicine faculty in the methodology of systematic reviews. However, in addition to mentoring medical residents and junior faculty in our division, many of my formally supervised trainees, in contrast to the traditional mentor/trainee relationship for clinical investigators, are "virtual" and include physicians around the country and globally who learn from my direct teaching roles and from my writing.

For example, I have an active role in continuing medical education. I speak widely at invited grand round settings and large scale CME lectures to audiences of as many as 4000 clinicians. I regularly receive scores of > 3.6 out of 4.0 from conference participants. Major topics include preoperative medical evaluation and risk reduction, evaluation of headache, new drugs for primary care, primary care management of depression, and evidence based treatment of hypertension. I lecture two to three dozen times each year across the country and provide direct face to face education for approximately 20,000 clinicians annually. I lecture regularly to diverse medical audiences including internists, family physicians, hospitalists, anesthesiologists, surgeons, pulmonologists, and nurse practitioners.

I also have important leadership roles in continuing education. I am the course director for a Harvard sponsored CME course, Prevention in Primary Care Practice, and directed an international CME program in

Switzerland for Harvard Medical International. For four years, I conceived of and directed a novel collaborative CME program for physicians in Vietnam that was sponsored by the U.S. Centers for Disease Control and Prevention (CDC). For seven years, I was an associate course director for Current Clinical Issues in Primary Care, a series of large scale primary care CME programs sponsored by Harvard Medical School and collaborating institutions in seven cities across the country each year. I am a member of the core teaching faculty for the American College of Physicians (ACP). This role has included speaking at ACP annual sessions and teaching venues, editorial development of online teaching modules, and publication of clinical updates in the *Annals of Internal Medicine*.

My written communications aim to change clinical practice and improve quality of care; the focus is on preoperative medical evaluation, headache, and evidence based clinical evaluation. I have written more than six dozen chapters, narrative, and systematic reviews for the peer-reviewed medical literature in these areas. I have co-edited two textbooks on medical consultation and a widely read textbook in the *Lange* series on evidence based history taking that is aimed towards medical students. For 5 years, I was a deputy editor at *JGIM*, the *Journal of General Internal Medicine*, where I was responsible for manuscript review and editorial decisions. I am currently a section editor for the Beyond the Guidelines series in the *Annals of Internal Medicine*. I co-edited a methods manual for the optimal conduct of systematic reviews of medical tests for the Agency for Healthcare Research and Quality (AHRQ).

I authored an American College of Physicians (ACP) guideline for the estimation and reduction of risk of perioperative pulmonary complications. This guideline was the first published summary of this literature, has changed clinical practice, and provides the basis for a national standard of care in the field. The guideline manuscripts in the *Annals of Internal Medicine*, and an earlier summary of the literature in the *New England Journal of Medicine*, have since been cited more than 630 times by other authors writing in the field. A paper in *JAMA*, that provides guidance on clinical evaluation of patients suspected of having temporal arteritis, combined my interests in headache and evidence based history taking, and has since been cited more than 165 times.

I have represented the American College of Physicians on several national panels charged with developing quality of care standards. One important product of this role was a national position statement on performance measures for the primary prevention of cardiovascular disease in primary care settings. This was a collaborative work product with the American College of Cardiology and the American Heart Association. I have been a member of the governing board of the Society of Perioperative Assessment and Quality Improvement, an international multidisciplinary organization.

In 2013, I was promoted to Professor of Medicine at Harvard Medical School. I have become a nationally recognized educator and leader in the fields of perioperative medicine and evidence based clinical evaluation through guideline development, scholarly publications, and invitations to speak from academic institutions and societies. In recognition of these activities, I received a National Award for Scholarship in Medical Education from SGIM for scholarship in clinical practice. In 2016, I was elevated to Master of the American College of Physicians (MACP), an honor reserved for select leaders in the ACP who have demonstrated "integrity, positions of honor, eminence in practice or in medical research, or other attainments in science or in the art of medicine."