

CURRICULUM VITAE

Joseph C. Kolars, MD, MACP

Senior Associate Dean for Education and Global Initiatives
Josiah Macy, Jr., Professor of Health Professions Education
Professor of Medicine, Division of Gastroenterology and Hepatology
Professor of Learning Health Sciences
University of Michigan Medical School
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Education and Training

Education

1973-1977 Bachelor of Arts, Major: Chemistry, College of St. Thomas, St. Paul, MN
1978-1982 MD, University of Minnesota Medical School, Minneapolis, MN

Postdoctoral Training

1983-1986 Residency: Internal Medicine
Abbott Northwestern Hospital, Minneapolis, MN
1986-1987 Fellowship: Gastroenterology and Hepatology
University of Minnesota Hospitals, Minneapolis, MN
1987-1989 Fellowship: Gastroenterology and Hepatology
University of Michigan Medical Center, Ann Arbor, MI

Certifications and Licensure

Certification

9/1986-Present American Board of Internal Medicine #107142
11/1989-Present Diplomat in Gastroenterology
11/1999-Present Certificate of Knowledge, Clinical Tropical Medicine and Travelers Health,
American Society of Tropical Medicine and Hygiene

Licensure (Medical Licenses)

1986-Present State of Minnesota #28528
1996-1999 Peoples Republic of China #97001
2009-Present State of Michigan #4301051651

Academic, Administrative, and Clinical Appointments

Academic Appointments

7/1989-1/1991 Instructor, Department of Internal Medicine, Division of Gastroenterology,
University of Michigan Medical Center, Ann Arbor, MI
1/1991-1/1995 Assistant Professor, Department of Internal Medicine, Division of
Gastroenterology, University of Michigan Medical Center, Ann Arbor, MI
1/1995-7/1999 Associate Professor with Tenure, Department of Internal Medicine,
Division of Gastroenterology, University of Michigan Medical Center,
Ann Arbor, MI
9/1996-6/1999 Professor of Medicine, Second Shanghai Medical University, Shanghai,
People's Republic of China

7/1999-6/2009	Adjunct Associate Professor of Medicine, University of Michigan, Ann Arbor, MI
8/1999-1/2003	Associate Professor of Medicine, Mayo Medical School, Rochester, MN
1/2003-6/2009	Professor of Medicine, Mayo Clinic College of Medicine, Rochester, MN
6/2009-Present	Professor of Internal Medicine, University of Michigan, Ann Arbor, MI (Tenured)
11/2012-Present	Josiah Macy, Jr., Professor of Health Professions Education, University of Michigan Medical School, Ann Arbor, MI (Tenured)
4/2015-Present	Professor of Learning Health Sciences, University of Michigan, Ann Arbor, MI (Tenured)
12/2018-12/2020	Guest Professor, Peking University Health Science Center, Beijing, China

Administrative Appointments

6/1993-7/1996	Associate Chair for Graduate Medical Education and Residency Program Director, Department of Internal Medicine, University of Michigan Medical Center, Ann Arbor, MI
9/1996-6/1999	Medical Director, World Link Medical Center, Shanghai, People's Republic of China. Established the first western health care system for China in partnership with Shanghai Second Medical University where I was a visiting professor. The government issued me the first medical license granted to someone from outside of China.
7/1999-8/2001	Senior Associate Consultant, Mayo Clinic, Rochester, MN
8/2001-6/2009	Consultant, Department of Internal Medicine, Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, MN
8/1999-5/2002	Associate Program Director, Internal Medicine Residency Program, Mayo Clinic, Rochester, MN
1/2002-1/2003	Chair for Education, Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, MN
5/2002-6/2007	Residency Program Director and Associate Chair, Department of Internal Medicine, Mayo Clinic, Rochester, MN
6/2007-6/2009	Emeritus Residency Program Director, Mayo Clinic, Rochester, MN
6/2009-Present	Senior Associate Dean for Education and Global Health Initiatives Director, Global REACH University of Michigan Medical School, Ann Arbor, MI
10/2010-Present	Co-Director, University of Michigan Health System-Peking University Health Science Center Joint Institute for Clinical and Translational Research, Ann Arbor, MI
9/2020-Present	Director, UM Center for Global Health Equity

Clinical Interests

- General gastroenterology and hepatology (clinically active ~ 20% effort)
- General internal medicine
- Global health (clinical experience in India, Nepal, Vietnam, Ghana, Peru, China, Ethiopia, and Uganda)

Research Interests

- Assessment of teacher quality, efficacy of medical learning venues
- Educational outcomes, measurements of learner competency
- Educating trainees to improve patient care
- Strengthening health education and health systems in low-resource settings

Grants

Current Grants

Northern/Pacific Universities Global Health Research Training Consortium
Fogarty Center SubK-NIH-DHHS-US (2-D43-TW009345) through a consortium with
University of Washington (18-PAF00635 or AWD00542)
UM-PI – Joseph C. Kolars
Total Amount = \$4M
Total \$ to UM = \$243,531, Kolars Co-PI
Dates: 7/2012 – 6/2023

Past Grants

*Veterans Administration Career Development Associate Investigator Award: Cytochromes
P-450III in Gastrointestinal Mucosa* Veterans Administration
PI - Joseph C. Kolars
Dates: 7/1989-6/1992

IPA Assignment: Joseph Kolars' Intergovernmental Personnel Act for Jeffrey Smith, MD
NIH-DHHS-US-95-0058; 95-3412; 97-0335
PI – Joseph C. Kolars
7/1994-6/1997. \$65,000 (\$65,000)

ACGME Educational Innovations Project: Educating Resident to Improve Patient Care
PI – Joseph C. Kolars
3/2006 (no funding, special designation from ACGME – Mayo Clinic)

*Contract No. 16946/Work Order No. 1: Analysis of Twinning Programs and the Development
of a Global Health Human Resources Strategy – Work Order #1, Gates, Bill and Melinda
Foundation – 10-PAF01218*
PI – Joseph C. Kolars
09/2009-1/2010, \$132,890 (\$132,890)

*Agreement: Analysis of Twinning Programs and the Development of a Global Health Human
Resources Strategy – Master Agreement, Gates, Bill and Melinda Foundation – 10-PAFO1213*
PI – Joseph C. Kolars
9/2009-8/2011

*Contract No. 17617: Evidence-Based Education Initiatives to Strengthen Health in Sub-Saharan
Africa – Work Order #2, Gates, Bill and Melinda Foundation, 11-PAF03970*
PI – Joseph C. Kolars
2/2010 – 8/2010, \$101,354 (\$101,354)

*Contract No. 17617: Evidence-Based Education Initiatives to Strengthen Health in Sub-Saharan
Africa – Amendment to Work Order #2, Gates, Bill and Melinda Foundation, 10-PAF00288*
PI – Joseph C. Kolars
8/2010-6/2011, \$105,436 (\$105,024)

Ghana Emergency Medicine Collaborative Training Program
*SubK-NIH-DHSS-US through a consortium with Kwame Nkrumah University of Science
and Technology (12-PAF02126)*
PI – Peter Donkor, Advisor – Joseph C. Kolars
Total grant amount: \$300,000
Total amount to UM: \$40,988
Dates: 2/2012 – 1/2013A proposal to develop the Ethiopia-Michigan Platform for Advancing

Accelerating Change in Medical Education/American Medical Association
N016594-00 (13-PAF06007)
PI – Rajesh Mangrulkar, Co-Investigator – Joseph C. Kolars
Total grant amount: \$2,988,522
Dates: 09/1/2013 – 08/31/2018

Collaborative Engagement (EM-PACE)
Global Challenges for Third Century (GCTC) “Global Challenges Phase 1” grant program
University of Michigan Intramural Grant
PI – Joseph C. Kolars
Total grant amount: \$298,000
12/01/2013 – 06/30/15

Accountable Graduate Medical Education: Demonstrating the value of GME to vested stakeholders/Josiah Macy, Jr., Foundation
N020835
PI – Joseph C. Kolars
Total grant amount: \$50,000
Dates: 10/01/2016 – 12/30/2016

Honors and Awards

National

1991	Henry Christian Award, American Federation for Clinical Research Excellence in Research
1993	Election to Fellowship, American College of Physicians
2009	Election to Fellowship, American Gastroenterological Association Foundation
2010	Distinguished Medical Educator Award, Association of Program Directors of Internal Medicine
2012	Election to Phi Kappa Phi Honor Society
2012-Present	Josiah Macy, Jr. Endowed Professor of Health Professions Education
2014	Election to Alpha Omega Alpha Honor Medical Society
2014	American Gastroenterological Association Distinguished Educator Award
2018	Certificate of Appointment – Distinguished Expert of the National Center for Health Professions Education Development (Beijing, China)
2019	Abraham Flexner Award for Distinguished Service to Medical Education, American Association of Medical Colleges
2020	National American College of Physicians Laureate Award (Michigan Chapter)
2020	Mastership, American College of Physicians (MACP)

Institutional

1983	Associate Competition, Annual Scientific Session, Minnesota Chapter
1984	Nathan Lifson Award - University of Minnesota Excellence in Research on Gastrointestinal Function
1986	Thomas E. Ives Award - Abbott Northwestern Hospital Excellence in Internal Medicine
1995-1996	Rated in top 5% of Internal Medicine faculty for teaching at the University of Michigan by Internal Medicine Residents (1995-1996 data on file, University of Michigan)
1996	Chairman’s Award, Department of Medicine, University of Michigan Medical School
1999-2000	Excellence in Teaching Recognition, Mayo Clinic College of Medicine
2001-2004	Clinician Educator Award, Mayo Graduate School of Medicine
2002-2003	Teacher of the Year, Department of Medicine, Mayo Clinic
2004-2005	Excellence in Teaching Recognition, Mayo Clinic College of Medicine

2005	Distinguished Alumni Award, University of Michigan Division of Gastroenterology
2005	Excellence in Inpatient Teaching Recognition, Department of Medicine, Mayo Clinic
2005	Mayo Clinic Department of Medicine Outstanding Mentorship Award
2006-2008	Rated in top 20% of Department of Medicine Teachers by Residents, Mayo Clinic College of Medicine
2007	Mayo Clinic Department of Medicine Distinguished Contribution to Medical Education Award
2007	Mayo Clinic Department of Medicine Distinguished Service Award
2012	University of Minnesota 2012 Distinguished Alumni Award
2013	Election, League of Excellence in Medical Education, University of Michigan Medical School
2018	University of Michigan Medical School Dean's Faculty Award for Community Service

Membership in Professional Societies

1986-Present	Member, American College of Physicians
1989-Present	Member, American Society of Tropical Medicine and Hygiene
2001-Present	Member, American Gastroenterological Association
2002-Present	Member, Association of Program Directors in Internal Medicine
2012-Present	Member, American Gastroenterological Academy of Educators

Editorial Positions, Boards, and Peer-Review Service

International

2008-2010	Scientific Advisor, Global Independent Commission on the Education of Health Professionals for the 21 st Century
2011-2015	Advisor, Medical Education Partnership Initiative (NIH-Fogarty) Coordinating Center at George Washington University
2011, 2014	Scientific Program Advisory Committee, Consortium of Universities for Global Health Annual Meeting, Montreal, Quebec and Washington, DC
2011, 2014	Reviewer, 2011 and 2014 Global Health Conference, Montreal, Quebec and Washington, DC
2013-2017	Advisor on Education, Peking Union Medical College, Beijing, China
2013-2019	Member, Fogarty International Center Advisory Board
2015-Present	Member, Consortium of Universities for Global Health Enabling Systems Committee (Sub Committee of Consortium of Universities for Global Health)
2015-Present	Director, Collaborating for Better Health, Inc (a 501c3 non-profit foundation)
2017-Present	Board Member, Consortium of Universities for Global Health
2017-Present	Co-Chair, Consortium of Universities for Global Health Enabling Systems Committee (Sub Committee of Consortium of Universities for Global Health)
2019-Present	Advisor, Fogarty International Center Advisory Board
2020-2022	Board Vice Chair, Consortium of Universities for Global Health
2020-Present	Member of Editorial Board, National Medical Review (Peking University Health Science Center)
2020-Present	Advisory Board, African Mission Healthcare (a 501c3 non-profit foundation)
2022-2024	Board Chair, Consortium of Universities for Global Health
2024-2026	Chair Emeritus, Consortium of Universities for Global Health

Editorial Boards

2006-2009 Editorial Board, Chinese Journal of Gastroenterology
2006-2007 Associate Editor, Clinical Gastroenterology & Hepatology

Ad Hoc Reviewer (Present)

Academic Medicine
American Journal of Gastroenterology
American Journal of Tropical Medicine & Hygiene
Clinical Gastroenterology and Hepatology
Gastroenterology
Gastrointestinal Endoscopy
Health Affairs
Health Policy
Journal of General Internal Medicine
Journal of Graduate Medical Education
Journal of Travel Medicine
Journal of the American Medical Association
Lancet
Mayo Clinic Proceedings
Medical Education
New England Journal of Medicine
Teaching and Learning in Medicine

Mentoring

Faculty Member

1993-1994 Dr. Sonja Krafcik, Clinician Educator, University of Michigan
1993-1996 Dr. Brent Williams, Associate Professor of Medicine, University of Michigan
1994-1995 Dr. Rob Ernst, Clinician Educator, University of Michigan Medical Center
1994-1995 Dr. Rajeev Venkaya, Asst. Professor of Medicine, UCSF, White House Physician
1994-1995 Dr. Mike Hudson, Academic Cardiologist, Henry Ford Hospital, Detroit MI
1995-1996 Dr. Kym Orsetti, Clinician Educator, Wake Forest University School of Medicine
1995-1996 Dr. Rajesh Mangrulkar, Associate Program Director, University of Michigan
1995-1996 Dr. Scott Furney, Clinician Educator, Wake Forest University School of Medicine
2001-2009 Dr. Robert Sedlack, Assistant Professor of Medicine, Mayo Clinic
2002-2009 Dr. Kris Thomas, Assistant Professor of Medicine, Mayo Clinic
2002-2009 Dr. Furman McDonald, Assistant Professor of Medicine, Mayo Clinic
2003-2009 Dr. Colin West, Senior Associate Consultant, Mayo Clinic
2004-2007 Dr. Joanna Rea, Senior Associate Consultant, Mayo Clinic
2004-2009 Dr. Amy Oxentenko, Associate Professor of Medicine, Division of Gastroenterology and Hepatology, and Internal Medicine Residency Program Director, Mayo Clinic
2005-2008 Dr. Chris Wittich, Senior Associate Consultant, Mayo Clinic
2005-2008 Dr. Monica Drefahl, Senior Associate Consultant, Mayo Clinic
2010-2012 Dr. Jennifer Jorgensen, Clinical Lecturer, University of Michigan Medical School
2017-2019 Dr. Johmarx Patton, Assistant Director of Learning Informatics, University of Michigan Medical School
2017-Present Dr. Jason Bell, Assistant Professor of Obstetrics and Gynecology, University of Michigan Medical School

Teaching Activity

International

1991-2018 Extensive (See Visiting Professorship and Extramural Invited Presentations). Substantial efforts on education system-strengthening, particularly in China and sub-Saharan Africa, have been accompanied by active teaching with diverse groups of learners in the class-room and at the bedside. In addition, substantial clinical proctoring of rotating U.S. students in foreign settings.

Institutional

1989-1992 Proctor, M3 student oral exams, Internal Medicine Clerkships, University of Michigan Medical School

1990-1996 M1 Introduction to the patient, M2 gastrointestinal physiology course, M2 pharmacology course, M3 clerkships in internal medicine and Gastroenterology, M4 sub-internships in internal medicine, University of Michigan Medical School

1992-1994 Course Co-Director, M2 GI Course, University of Michigan Medical School

1992-1996 Medical Education Research Group Conferences, University of Michigan

1993-1996 Proctor, M2 Final Comprehensive Clinical Assessment Exam

1994-1996 Author, Core Curriculum for Internal Medicine Residency, University of Michigan

1999-2009 Mayo Clinic College of Medicine:

- Preceptor for Gastroenterology Fellows, Mayo Clinic (gastroenterology clinic, inpatient service, consult service, and endoscopic procedures 20 weeks/year)
- Preceptor for Internal Medicine Residents, Mayo Clinic (gastroenterology education clinic, St. Mary's Gastroenterology inpatient service)
- Author, Curriculum for Colonoscopy and Flexible Sigmoidoscopy Using a Computer-based Colonoscopy Simulator, Mayo Clinic Division of Gastroenterology and Hepatology (2001)
- Author, Gastroenterology Knowledge Assessment Exam, Mayo Clinic Department of Internal Medicine (2001-03)
- Extensive Curriculum Development for Internal Medicine Residency Program (2002-7)
- Multiple lectures/teaching sessions for Internal Medicine residents, Mayo Clinic College of Medicine (2002-9)

2002 Harvard Macy Scholars Program in Medical Education, Harvard Medical School, Boston, MA

2009-Present Morning Report; GI Fellow teaching in clinic and GI procedures; M2 GI Sequence Small Group Leader, University of Michigan Medical School

2012-Present Co-founder and Clinic Proctor for medical students, Physician, University of Michigan Medical School Student Run Free Clinic, Pinckney, MI

2009-Present Clinic proctor for medical students, residents, and fellows (GI outpatient clinic and GI procedures), University of Michigan Medical School

2014-Present Clinic proctor, Asylum Network, Physicians for Human Rights (instructing students on preparing clinical affidavits in support of victims of torture seeking asylum in the U.S.)

2014-Present Key faculty for medical students in the Global Health and Disparities Path of Excellence (lectures, small group discussions, mentoring on projects), University of Michigan Medical School

2015-Present Key faculty for residents and fellows in the Global Health Certificate Program (lectures, small group discussions, mentoring), University of Michigan Medical School

2016-Present M1 GI Sequence Small Group Leader, University of Michigan Medical School

2017	Improvisation Workshop for Incoming M3 Medical Student, University of Michigan Medical School
2017-Present	Key faculty and Co-director, Global Health Research Certificate Program, (lectures, small group discussions, mentoring), University of Michigan Medical School
2020	Instructor, A Cross-Disciplinary Perspective on Healthcare Delivery in Low and Middle-Income Countries (BA620), University of Michigan, Stephen M. Ross School of Business

Committee and Administrative Services

International

2013-Present	Peking University Health Science Center – Health Science Centre’s Medical Graduate Education Committee, Member - participate in meetings twice each year to develop and oversee strategic planning.
2012-2017	Peking Union Medical College Education Advisory Committee, Member-participate in meetings twice each year to develop and oversee strategic planning.
2018-Present	African Association for Health Professions Education and Research. Advisory Committee member. NIH Award 1R25TW011217-01 (2018-2023) Principal investigators: Drs. Nelson K. Sewankambo, Prisca Adejumo, Jean Bisimwa Nachege and Fatima Suleman

National

1993-1996	American College of Physicians, Michigan Chapter, Council Representative
1995-1996	American Board of Internal Medicine Certification Exam, Contributor
1995-1996	Association of Program Directors in Internal Medicine, Program Committee Member
1995	American College of Physicians Scientific Session, Michigan Chapter, Co-Chair
2000-2003	2001 American Board of Internal Medicine-American College of Physicians Internal Medicine In-Training Examination Question Writing Committee, Member
2000-2004	Step 2 Internal Medicine Test Writing Committee, United States Medical Licensure Examination, Member
2003-2006	American Gastroenterology Association International Committee, Member
2003-2006	Association of Program Directors in Internal Medicine – American College of Physicians Internal Medicine In-Training Examination Advisory Committee, Member
2004	American College of Physicians MKSAP Prep For Boards II Gastroenterology/Hepatology Committee, Member
2006-2010	American College of Physicians Education Committee, Member
2006-2010	Association of Program Directors in Internal Medicine – American College of Physicians Internal Medicine In-Training Examination Advisory Committee, Chair
2015-2016	2016 Renfield Award University of Pennsylvania School of Nursing Selection Advisory Committee, Member
2015-2016	Josiah Macy, Jr., Foundation Innovations in GME National Leaders Planning Committee, Member
2016-2018	University of Alabama Sparkman Center for Global Health External Advisory Committee, Member
2016-2017	Association of Academic Health Centers International-Africa Working Group, Member

2016 Macy Midwest Conference on Innovations in GME: Accountable Graduate Medical Education: Linking GME to High-Value Health Care, Conference Chair

Institutional

1990-1996 Education Committee, Gastroenterology Division, University of Michigan, Member

1991-1993 Education Committee, Gastroenterology Division, University of Michigan, Chairman

1992-1993 Component IV Committee for Medical Student Education, University of Michigan, Member

1992-1993 Component IV Sub-internships in Internal Medicine, University of Michigan, Director

1992-1994 Component II, Gastroenterology Sequence, University of Michigan, Co-Director

1992-1996 Education Committee, Department of Internal Medicine, University of Michigan, Co-Chair

1993-1996 House Officer Selection Committee, Department Medicine, University of Michigan, Chair

1999-2004 Rochester International Activities Committee, Mayo Clinic, Member

1999-2007 GI Education Committee, Mayo Clinic, Member

1999-2009 General Medicine Training Committee, Member

1999-2009 Internal Medicine House Officer Selection Committee, Mayo Clinic, Member

2000-2006 Internal Medicine Scholarship Subcommittee, Mayo Clinic, Member

2000-2008 Internal Medicine Graduate Education Committee, Mayo Clinic, Member

2001-2002 Mayo Foundation, MN Pacific Rim Regional Coordinator

2001-2003 International Activities Coordinating Committee, Mayo Foundation, MN, Member

2001-2004 Internal Medicine Subcommittee on ACGME Competencies, Mayo Clinic, Chair

2002-2003 Division of Gastroenterology and Hepatology, Mayo Clinic, Chair for Education

2002-2007 Internal Medicine Residency, Mayo Clinic, Program Director

2006-2008 Administrative Committee for Mayo Clinic Education Committee, Mayo Clinic, Member

2009-2010 Strategic Education Committee, University of Michigan Health System, Co-Chair

2009-Present Dean's Cabinet, University of Michigan Medical School, Member

2009-Present Education Dean's Committee, University of Michigan Medical School, Chair

2010-2012 Liaison Committee on Medical Education (LCME) Accreditation Process, Director, University of Michigan Medical School

2010-Present University of Michigan Medical School – Peking University Health Science Center Joint Institute for Clinical and Translational Research Steering Committee, Co-Chair. This is a \$14 million USD initiative co-founded by the two institutions to establish research strategies, core facilities, and a pilot program to investigate diseases relevant to the U.S. and China.

2010-2014 President's Africa Advisory Committee – University of Michigan

2010-2014 President's China Advisory Group

2011-Present Executive Group, University of Michigan Health System, Member

2011-2012 President's Brazil Advisory Group, University of Michigan

2011 Global Health Visioning Committee, University of Michigan, Co-Chair

2012-2014 Global Health Visioning Group, University of Michigan

2012-2016 Education Leadership Council, University of Michigan Medical School, Chair

2012-Present	Global Initiatives Leadership Forum, University of Michigan Medical School, Chair
2012-Present	Student Run Free Clinic Advisory Committee, University of Michigan Medical School, Chair
2012-2013	President's India Advisory Group, University of Michigan
2012-Present	Academy of Medical Educators Steering Committee, University of Michigan Medical School, Chair
2013-Present	Student Asylum Advisory Committee, University of Michigan Medical School, Chair
2013-2015	EMPACE Leadership Committee, University of Michigan Medical School, Chair
2014-2017	Task Force of Valuing Medical Education Efforts of Faculty, University of Michigan Medical School, Chair
2015	Thomas Francis Jr. Medal in Global Public Health Selection Advisory Committee at University of Michigan, Member
2015-2016	Josiah Macy, Jr., Foundation Innovations in GME Midwest Regional Planning Committee, University of Michigan Medical School, Chair
2015-Present	Ethiopian GI Fellowship Training Committee, University of Michigan Medical School
2016-Present	Curriculum Strategic Planning Steering Committee, University of Michigan Medical School, Chair
2015-2016	Josiah Macy, Jr., Foundation Grant Advisory Board, "A New Model for Clinical Education and Progressive Entrustment of Residents in the Operating Room.", University of Michigan Medical School, Member
2016-Present	Michigan Medicine Leadership Meeting, University of Michigan Medical School, Member
2017-Present	Michigan Center for Global Surgery External Advisory Committee (Chair), Michigan Medicine
2019-Present	D43: Expansion of NCD Research Capacity in Thailand with outreach to Indonesia, Training Advisory Committee member, University of Michigan

Administrative Services

Volunteer

2007-2009	Volunteer Physician, Salvation Army, Salvation Army Free Clinic, Rochester, MN
2012-Present	Volunteer Physician, University of Michigan Medical School Student Run Free Clinic, Pinckney, MI
2014-Present	Volunteer Physician, Asylum Network, Physicians for Human Rights

Consulting Positions

1/2007-7/2011	Consultant, Bill and Melinda Gates Foundation, Washington, DC. Recruited to establish a strategy to improve medical education to Sub-Saharan Africa (SSA) that led to the first comprehensive understanding of medical schools and their outputs in the region. In addition, I oversaw the establishment of a strategy to partner medical schools in the U.S. with those in SSA that informed the establishment of the \$130 million Medical Education Partnership Initiative (MEPI) funded by the U.S. government (NIH, HRSA).
1/2007-2015	NIH Medical Education Partnership Initiative Coordinating Center Faculty, George Washington University, Washington, DC. Plays a strategic role on the team that coordinates and assists the 13 partnerships between schools in SSA and the U.S. through regular site visits, feedback, and technical assistance.
2/2010-2/2011	Consultant, China Medical Board, USA, Cambridge, MA. Evaluate medical schools and their proposals to the China Medical Board for innovations in education.

11/2017	Senior Consultant, China Medical Board, USA, Cambridge, MA. Partnering the interests of China Medical Board with those of the Ministry of Health in reforming Graduate Medical Education (GME).
5/21-24/2018	Expert Reviewer, China Ministry of Education External Review of Peking Union Medical Colleges Undergraduate Programs, Beijing, China.
2019	Grant Reviewer, Social Sciences and Humanities Research Council of Canada

Visiting Professorships and Extramural Invited Presentation

Visiting Professorship

10/1991	"Cytochromes P450III A in the Gut: Implications for health and disease", Medical College of Wisconsin, Milwaukee, WI
3/1993	"Diet and Cancer", Hanoi Medical College, Hanoi, Vietnam
3/1993	"Diet and Cancer", Ho Chi Ming Medical School, Ho Chi Ming, Vietnam
3/1994	"Helicobacter Pylori Infection", Hanoi Medical College, Hanoi, Vietnam
3/1994	"Helicobacter Plyori Infection", Ho Chi Ming Medical School, Ho Chi Ming, Vietnam
1/1995	"P450 Enzymes in the GI Tract", Hanover Medical University, Hanover, Germany
1/1998-1/1999	"Diet and Cancer", School of Public Health, Shanghai Medical University, Shanghai, People's Republic of China
2/2002	"ACGME Competencies", Southern Illinois University School of Medicine, Springfield, IL
6/2002	"ACGME Competencies", University of Kansas School of Medicine, Kansas City, KS
6/2003	"Obscure GI Bleeding", Louisiana State University, Department of Medicine, Baton Rouge, LA
11/2003	"Educational Outcomes and Gastroenterology", University of Wisconsin, Division of Gastroenterology, Madison, WI
11/2013	"Are Global Health Initiatives now an imperative for US Medical Schools?" Geisel School of Medicine, Dartmouth College, Hanover, NH
12/2015	"Are Global Health Initiatives an Imperative for Medical School Education Programs?" George Washington School of Medicine and Health Sciences

Extramural Invited Presentation

1. "Update on Viral Hepatitis", Annual Michigan Scientific Meeting, American College of Physicians, Traverse City, MI, September 28, 1991.
2. "Diet and Cancer", CJ Watson Memorial Lecture, Abbott-Northwestern Hospital & University of Minnesota, MN, May 1992.
3. American Gastroenterological Association Regional Meeting, American Gastroenterological Association, Singapore, January 1995.
4. International Symposium on Gastroenterology, Shanghai Digestive Disease Institute, Shanghai, China, January 1996.
5. The Role of Cytochromes P450 in Diet and Cancer, Shanghai Digestive Disease Institute, Shanghai, China, October, 1997.
6. "The influence of diet, vitamins, and chemoprophylactic agents on GI Cancer" American Gastroenterological Association, Hong Kong, China, December, 1997.
7. "Decision tree in the work-up of dyspeptics" American Gastroenterological Association symposium, Alimentary Disease Week, Philippines, November, 1998.
8. "The Evolution of Western Medical Care in China: Observations from Three Years in Shanghai", Grand Rounds, Abbott-Northwestern Hospital & University of Minnesota, St. Paul, MN, February 2000.
9. "The Evolution of Western Medical Care in China: Observations from Three Years in Shanghai", Minnesota Academy of Medicine, St. Paul, MN, February 2000.

10. "Dietary Factors in the Pathogenesis of Gastrointestinal Tract Malignancies", 2000 Shanghai International Conference of Gastroenterology, Shanghai, China, August 3, 2000.
11. Non-ulcer Dyspepsia, Normal Medical Specialist Center, January 2001, Kuching-Sarawak, Malaysia
12. "Training in medicine and gastroenterology in Asia: An American perspective" Kota Kinabalu, Malaysian Society of Gastroenterology Annual Meeting, Sabah, Malaysia, April 8, 2001.
13. "Chemoprevention of colon cancer", Malaysian Society of Gastroenterology Annual Meeting, Kota Kinabalu, Sabah, Malaysia, April 7, 2001.
14. "Access to Medical Care Abroad". International Society of Travel Medicine, Innsbruck, Austria, May 27, 2001.
15. "Obscure gastrointestinal bleeding", Clinical Reviews, Mayo Civic Center, Rochester, MN, October 29, 2001.
16. "Standardization of target performance parameters on a computer-based colonoscopy simulator". World Congress of Gastroenterology. Bangkok, Thailand, February 26, 2002.
17. "Assisting Residency Programs in Assessing Outcomes in the ACGME Core Competencies", AAMC Group of Resident Affairs, San Antonio, Texas, April 2002.
18. "Using end-of-rotation medical knowledge assessments of residents to involve faculty in improving measurements of educational outcomes". Association of Program Directors in Internal Medicine Annual Meeting, Philadelphia, PA, April 2002.
19. "Making the ACGME Competencies work in and for your program". Workshop co-director, Association of Program Directors of Internal Medicine National Meeting, Washington DC, October 18-20, 2002.
20. Mayo Postgraduate Course on Updates in Gastroenterology, Indian Society of Gastroenterology, Kochin, India, November, 2002.
21. "Capsule Enteroscopy". Indian Society of Gastroenterology, Kochin, India, November 2002.
22. "Accessing Health Care Overseas" Workshop Leader, International Society of Travel Medicine Annual Meeting, New York, NY, May 10, 2003.
23. "Will it Float? Time to Address Continuity of Care, Professionalism, and Work." Workshop, Association of Program Directors Internal Medicine, Washington, DC, October 2003.
24. "ACGME Core Competencies: The Catalyst for Change in Graduate Medical Education" Workshop, Administrators of Internal Medicine National Meeting, Savannah, GA, October 2003.
25. Work Hours: Strategies for Change and Implementation Workshop, Administrators of Internal Medicine, Savannah, GA, October 2003.
26. "What is the Role of Poster Presentation in Promoting Scholarship Among Internal Medicine Trainees?" Ottawa Conference, Portugal, Spain, July 2004.
27. "Dietary Factors in the Etiology of GI Tract Malignancies", State-of-the-Art Lecture, Asia Pacific Digestive Disease Week, Beijing, China, October 7, 2004.
28. "Ensuring Competency in Medical Knowledge: What Works? What Doesn't?" Workshop Leader, Academic Internal Medicine Week/APDIM, Nashville, TN, October 17, 2004.
29. "Dietary factors in the etiology of gastrointestinal malignancies", Pakistan Society of Gastroenterology Annual Meeting, Islamabad, Pakistan, March 2006.
30. "Educating the future gastroenterologist", Pakistan Society of Gastroenterology Annual Meeting, Islamabad, Pakistan, March 2006.
31. "Updates in the approach to patients with obscure GI bleeding", South African Society of Gastroenterology Annual Meeting, Sun City, South Africa, August 2007.
32. "Engendering a culture of life-long learning in medicine" Annual CME Course, Africa Partners Medical, Kumasi, Ghana, September, 2007.
33. "Giving an effective presentation" Annual CME Course, Africa Partners Medical, Kumasi, Ghana, September, 2007.
34. "Education in an age of Compliance" Internal Medicine Grand Rounds, Mayo Clinic, Rochester, MN, September 12, 2007.

35. "Promoting Innovation in Medical Education", Internal Medicine Grand Rounds, National University of Ireland – Galway, November 15, 2007.
36. "Innovations in Medical Education: A U.S. perspective on new approaches to training internists", World Congress of Internal Medicine, Buenos Aires, Argentina, September 18, 2008
37. "Strategic Opportunities to Improve Global Health" Digestive Disease Week, American Gastroenterologic Association, Chicago IL, June 3, 2009
38. "Education Collaboratives for Global Health", Medical Education Grand Rounds, Penn State College of Medicine, January 29, 2010.
39. "Should Global Health Experiences be a requirement for Medical Students and Residents" Key-Note Speaker, Global Health Center Annual Symposium, Penn State College of Medicine, January 28, 2010.
40. "Education Collaboratives" African Medical Education Symposium, Dar es Salaam, Tanzania, April 17, 2010.
41. "Measuring Institutional Impact" Accordia Infectious Disease Summit, Dar es Salaam, Tanzania, April 15, 2010.
42. "Improving Women's Healthcare Internationally", The Irvin M. Cushner Memorial Lecture, American College of Obstetrics and Gynecology Annual Meeting, San Francisco, CA, May 18, 2010.
43. "Platforms for clinical translational research: The University of Michigan approach." Sino-American Symposium on Clinical and Translational Research, Beijing, China, June 17, 2010.
44. "Transforming the Learning Process". Panel discussant. Health Professionals for a New Century: Transforming education for health systems in an interdependent world. Harvard Medical School, November 30, 2010.
45. "New Approaches to Translational Research". Peking University Clinical Research Institute –Chinese Course on Drug Development and Regulatory Sciences. Beijing, China, March 19, 2011.
46. "University of Michigan Medical School Global Partnerships: Strategies and keys to success." Association of Academic Health Centers Annual International Forum, Washington, DC, March 28, 2011.
47. "Global Innovations" Mayo Clinic Transform 2011 Conference, Rochester, MN, September 13, 2011.
48. "Partnerships to Strengthen Medical Education in Africa: Outcomes from the Bill and Melinda Gates Funded Education Collaboratives Projects", Break-out session, Consortium of Universities for Global Health Annual Meeting, Montreal, Quebec, November 13-15, 2011.
49. "Designing Partnerships that Benefit Institutions in Under-Resourced Settings: Perspectives from Sub-Saharan Africa", Plenary session, Consortium of Universities for Global Health Annual Meeting, Montreal, Quebec, November 13-15, 2011.
50. "Publishing in Medical Education", Medical Education Partnership Initiative Annual Meeting, Addis Ababa, Ethiopia, August 7-9, 2012.
51. "Education Manuscript Writing" Workshop director, Addis Ababa University, Addis Ababa, Ethiopia, August 2012.
52. "Education Manuscript Writing" Workshop director, University of Nairobi, Nairobi, February 2013.
53. "Publishing in Medical Education" Grand Round presentation, University of Botswana, Gaborone, Botswana, March 21, 2013.
54. "Medical Education Writing" Workshop director, University of Botswana, Gaborone, Botswana, March 19, 2013.
55. "Innovative Education and Training: The Fogarty Global Health Research Consortia" Presentation, Consortium of Universities for Global Health, Washington, DC, March 14, 2013.

56. "The PUHSC-UMHS Joint Institute Model" National Heart, Lung, Blood Institute/United Health Global Health Centers of Excellence Program Conference, Beijing, China, April 14, 2013.
57. "The University of Michigan and Peking University Health Science Center Joint Institute for Translational and Clinical Research Model" 2013 International Forum: Evolving Financial Models of Academic Health Centers", Invited presentation, Association of Academic Health Centers, Washington, DC, April 23, 2013.
58. "The University of Michigan Health System and Peking University Health Science Center Joint Institute for Translational and Clinical Research". Key note presentation, The 4th Sino-American Symposium on Clinical and Translational Medicine, Beijing, China, June 22, 2013.
59. "Developing Competency in Global Health Research". Invited presentation, Annual Global Health Research Fellows Orientation, Fogarty Center – NIH, Bethesda, MD, July 11, 2013.
60. "Publishing in Medical Education" Workshop director, Kilimanjaro Christian Medical University College, Kilimanjaro, Tanzania, August 12-13, 2013.
61. "Partnerships in the Medical Education Partnership Initiative", Plenary Presentation, Annual Medical Education Partnership Initiative Symposia, Maputo, Mozambique, August 5, 2014
62. "Competency Based Medical Education", Workshop Director, Annual Medical Education Partnership Initiative Symposia, Maputo, Mozambique, August 5, 2014
63. "Strengthening Education Systems to Improve Health in Sub-Saharan Africa", Key note presentation, International Center for Advanced Research and Training (ICART) Symposium, Panzi Hospital, Bukavu, Democratic Republic of Congo, August 23, 2014
64. "Strengthening medical education through cross-cultural collaborations." Key note presentation, Peking Union Medical College 6th Annual Symposium on Medical Education, Beijing, China, September 19, 2014
65. "Innovations in Health Professions Education: A U.S. Perspective" Key note presentation, Peking University Healthcare Forum and opening ceremony, Peking University International Hospital, Beijing China, December 4, 2014
66. "Case studies in successful institutional collaborations at University of Michigan Medical School" Invited talk. Academia Sinica, Tapei, Taiwan, July 9, 2015
67. "Collaboration Platforms to Advance Health Professions Education: Case Studies from the University of Michigan" Key note invited presentation. Association of Academic Health Centers International Meeting, Beijing, China, October 29, 2015
68. "Career Preferences of Graduating Medical Students in China: A Nationwide Cross-sectional Study." Invited presentation, The Lancet-Chinese Academy of Medical Sciences Health Summit, Beijing, China, October 30, 2015
69. "Disasters and Tragedies...They Happen: What faculty and institutions need to do prepare for and manage these situations," Session moderator, Consortium of Universities for Global Health, San Francisco, California, April 9, 2016.
70. "Networks for Impact on Global Health: Reciprocity, Equitability, and the Sharing of Best Practices," Invited presenter and panel discussant, Consortium of Universities for Global Health, San Francisco, California, April 10, 2016.
71. "Partnerships for impact on Health Professions Education: Sharing best practices." Workshop Co-Leader, 2016 Medical Education Partnership Initiative (MEPI) Symposium, Nairobi, Kenya, August 3, 2016 Kolars and Dr. Elsie Kiguli-Malwadde.
72. "Building Clinical Capacity through Partnerships." 2016 Global Health Symposium: Strengthening Clinical and Research Capacity at Home and Abroad, Henry Ford Hospital, Detroit, Michigan, October 21, 2016.
73. "Training Better Doctors: New Directions in Medical Education." The Aga Khan University, Karachi, Pakistan, November 21, 2016.
74. "Models of Cross-Institutional Collaboration: Lessons Learned." Faculty of Medicine University of Sao Paulo-University of Michigan Medical School Platform Symposium, Sao Paulo, Brazil. November 30, 2016.

75. "Training Better Doctors: Observations from teaching medicine in the US and China." Telemedicine Education Symposium, Shantou University, Shantou, China, December 6, 2016.
76. "Clinical Research Models in the U.S.: Challenges and Opportunities." Shenzhen University, Shenzhen, China, December 8, 2016.
77. "A Global Health and Disparities Track for Medical Students." 14th Asia Pacific Medical Education Conference, Singapore, January 13, 2017.
78. "Preparing Learners for Global Health." 14th Asia Pacific Medical Education Conference, Singapore, January 13, 2017.
79. "The global health movement in medical education: reconciling views from the "the North" and "the South." AFREhealth Symposium, Accra, Ghana, August 1, 2017.
80. "Establishing a Peer Review Process to Evaluate Teaching." AFREhealth Symposium, Accra, Ghana, August 2, 2017.
81. "International Experiences for Medical Students – How essential are they to Modern Medical School Curricula?", Chinese Academy of Medical Sciences/Peking Union Medical College International Medical Education Symposium, Beijing, China, September 21, 2017.
82. "The Role of Universities in Global Health", Consortium of Universities for Global Health Midwest Conference, St. Louis, Missouri, December 1, 2017.
83. "Strengthening Health Systems-Leading Local Change", Fort Portal Buhinga Regional Referral Hospital, Fort Portal, Uganda, January 12, 2018.
84. "Transforming Medical Education: Lessons from the U.S.", National Medical Education Development Center Opening Ceremony, Peking University, Beijing, China, May 16, 2018.
85. "Transforming Medical Education: A Case-Study on Curriculum Redesign", National Center for Health Professions Education Development, Peking University Health Science Center, Beijing, China, May 17, 2018.
86. "Developing Competency Assessment Methods in the Specialties", China Medical Board Competency Fellows Meeting, Beijing, China, May 20, 2018.
87. "Ensuring Clinical Competency in GME", Peking University Health Science Center – Third Hospital, Beijing, China, May 29, 2018.
88. "Preparing Doctors of the Future: The Paradigm Shift in Medical Education at the University of Michigan", East-West Alliance (EWA) Symposium & Shantou University Medical College Research Day, Shantou, China, November 17, 2018.
89. "Curricular Change at University of Michigan Medical School – Why? How? What?", Medical Deans Australia & New Zealand Annual Conference (Teleconference) – Session 4, Thursday, September 19, 2019 (Michigan)/Friday, September 20, 2019 (Sydney, Australia)
90. "Embracing Global Health: New Priorities for Our Profession." Boy Frame Annual Lecture, Michigan Chapter of the American College of Physicians, October 17, 2020

Other

1. Webinar: "The University of Michigan and Peking University Health Science Center Joint Institute for Translational and Clinical Research." Association of Academic Health Centers, Ann Arbor, MI, July 17, 2013.
2. Webinar: "Scholarly Writing, Getting Your MEPI Interventions into the Literature", Medical Education Partnership (MEPI), April 2013, Ann Arbor, MI.
3. Webinar: "Interprofessional Global Health Competencies: Exploring Consensus and Controversies." Consortium of Universities for Global Health, Ann Arbor, MI, February 10, 2016. (Chaired webinar)
4. Podcast: "The impact of international electives in medical school." American Medical Student Association Podcast -AMSA ad lib" July 19, 2016
5. Webinar: "Virtual International Institute Round Table Coronavirus: Global academic perspectives." University of Michigan Stephen Ross School of Business, Ann Arbor, MI, March 17, 2020. (Panelist/Moderator)

6. Webinar: “Profiles in Leadership: Effective leadership approaches and responses to pandemics.” Northern Pacific Global Health (NPGH) Research Fellows Training Consortium, March 25, 2020.
7. Webinar: “COVID-19: Lessons from China.” University of Michigan Medical School, Ann Arbor, MI and Peking University Health Science Center (Beijing and Wuhan), March 26, 2020. (Moderator)
8. Webinar: “Healing Ties: Future Medical Collaborations between the U.S. and China amidst COVID-19.” Stanford University – Walter H. Shorenstein Asia-Pacific Research Center, Stanford, CA, May 26, 2020 (Panelist)

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Peer-Reviewed Journals and Publications

1. **Kolars JC**, Levitt MD, Aouji M, Savaiano DO: Yogurt - an autodigesting source of lactose. *N Engl J Med* 1984;310(1): 1-3.
2. Levitt MD, **Kolars JC**, Savaino DA: Carbohydrate malabsorption and intestinal gas production. *Neth J Med* 1984;27(7):258-61.
3. **Kolars JC**, Ellis CJ, Levitt MD: Comparison of serum amylase, pancreatic isoamylase and lipase in patients with hyperamylasemia. *Dig Dis Sci* 1984;29(4):289-93.
4. Eckfeldt JH, **Kolars JC**, Elson MK, Shafer RB, Levitt MD: Serum tests for pancreatitis in patients with abdominal pain. *Arch Pathol Lab Med* 1985;109(4):316-9.
5. Smith TM, **Kolars JC**, Savaiano DA, Levitt MD: Absorption of calcium from milk and yogurt. *Am J Clin Nutr* 1985;42(6):1197-200.
6. O'Connor M, **Kolars JC**, Ansel H, Silves S, Vennes J: Preoperative endoscopic retrograde cholangiopancreatography in the surgical management of pancreatic pseudocysts. *Am J Surg* 1986;151(1):18-24.
7. **Kolars JC**, Allen MO, Ansel H, Silvis SE, Vennes JA: Pancreatic pseudocysts: clinical and endoscopic experience. *Am J Gastroenterol* 1989;84(3):259-64.
8. Lucey MR, **Kolars JC**, Merion RM, Campbell DA, Aldrich M, Watkins PB: Cyclosporin toxicity at therapeutic blood levels and cytochrome P-450 IIIA. *Lancet* 1990;335(8680):11-5.
9. Watkins PB, Hamilton TA, Ellis CN, **Kolars JC**, Voorhees JJ: The erythromycin breath test as a predictor of cyclosporin blood levels. *Clin Pharmacol and Ther* 1990;48(2):120-9.
10. **Kolars JC**, Murray SA, Peters KM, Watkins PB: Differential regulation of liver P-450III cytochromes in choline-deficient rats: Implications for the erythromycin breath test as a parameter of liver function. *Hepatology* 1992;12(6):1371-8.
11. **Kolars JC**, Turgeon DK, Watkins PB: Omeprazole and aryl hydrocarbon hydroxylases: should we be worried? *Hepatology* 1991;13(1):197-9.
12. **Kolars JC**, Awni WM, Merion RM, Watkins PB: First-pass metabolism of cyclosporin by the gut. *Lancet* 1991;338(8781):1488-90.
13. Lown K, **Kolars JC**, Turgeon K, Merion R, Wrighton SA, Watkins PB: The erythromycin breath test selectively measures P450IIIA in patients with severe liver disease. *Clin Pharmacol Ther* 1992;51(3):229-38.
14. **Kolars JC**, Stetson PL, Rush BD, Ruwart MJ, Schmiedlin-Ren P, Duell EA, Voorhees JJ, Watkins PB: Cyclosporine a metabolism by P450IIIA in rat enterocytes - another determinant of oral bioavailability? *Transplantation* 1992;53(3):596-602.
15. **Kolars JC**, Schmiedlin-Ren P, Dobbins WO 3rd, Schuetz J, Wrighton SA, Watkins PB: Heterogeneity of cytochrome P450III expression in rat gut epithelia. *Gastroenterology* 1992;102(4 Pt 1):1186-98.
16. **Kolars JC**: Aflatoxin and hepatocellular carcinoma - a useful paradigm for environmentally induced carcinogenesis. *Hepatology* 1992;16(3):848-51.
17. Watkins PB, Turgeon DK, Saenger P, Lown KS, **Kolars JC**, Hamilton T, Fishman K, Guzelian PS, and Voorhees JJ: Comparison of urinary 6 beta cortisol and the erythromycin breath test as measures of hepatic P450IIIA (CYP3A) activity. *Clin Pharmacol Ther* 1992;52(3):265-73.

18. **Kolars JC**, Schmiedlin-Ren P, Schuetz JD, Fang C, Watkins PB: Identification of rifampin-inducible P450III_{A4} (CYP3A₄) in human small bowel enterocytes. *J Clin Invest* 1992;90(5):1871-8.
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21. **Kolars JC**, Benedict P, Schmiedlin-Ren P, Watkins PB: Aflatoxin B₁-adduct formation in rat small bowel enterocytes. *Gastroenterology* 1994;106(2):433-9.
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[recipient of the '1995 Best Paper Award' from the American Society for Pharmacology and Experimental Therapeutics]
26. Gruppen LD, Woolliscroft JO, **Kolars JC**: Diagnostic accuracy and likelihood estimations of attending physicians and house officers. *Acad Med* 1996;71(1 Suppl):S4-6.
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28. **Kolars JC**, Gruppen LD, Traber PG, Paine ME, Davis WK, Woolliscroft JO: The effect of student and teacher-centered small-group learning in medical school on knowledge acquisition, retention, and application. *Medical Teacher* 1997;19:53-7.
29. **Kolars JC**, Kurth CL: The influence of diet, vitamins, and chemotherapeutic agents on gastrointestinal cancer. *J Gastroenterol Hepatol* 1998;13:S173-7.
30. **Kolars JC**: Dietary factors in the pathogenesis of gastrointestinal tract malignancies. *Chinese Journal of Gastroenterology* 2000;5:A38-40 (supplement).
31. **Kolars JC**: Should U.S. academic health centers play a leadership role in global health initiatives? Observations from three years in China. *Acad Med* 2000;75(4):337-45.
32. **Kolars JC**: Forecasting physician supply and demand. *Med Educ* 2001;35(5):424-5.
33. **Kolars JC**: Rules of the road: A consumer's guide for travelers seeking health care in foreign lands. *J Travel Med* 2002;9(4):198-201.
34. Sedlack RE, **Kolars JC**: Colonoscopy curriculum development and performance-based assessment criteria on a computer-based endoscopy simulator. *Acad Med* 2002;77(7):750-1.
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37. **Kolars JC**: Should contacts of patients with rabies be advised to seek postexposure prophylaxis? A survey of tropical medical medicine experts. *J Travel Med* 2003;10(1):52-4.
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