

CURRICULUM VITAE

Jess Mandel, M.D.

1/29/2021

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Higher Education

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1986	A.B.	Brown University, Providence, RI
1991	M.D.	Baylor College of Medicine, Houston, TX

Postgraduate Medical Education

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1991-1992	Intern, Internal Medicine	Beth Israel Hospital, Boston, MA
1992-1994	Resident, Internal Medicine	Beth Israel Hospital, Boston, MA
1994-1998	Fellow, Pulmonary & Critical Care Medicine	Brigham & Women's Hospital, Boston, MA
1995-1996	Chief Medical Resident	Beth Israel Hospital, Boston, MA

Certification

<u>Board</u>	<u>Number</u>	<u>Date</u>	<u>Recertification</u>
Diplomate, American Board of Internal Medicine	158220	1994	2013
Diplomate, Subspecialty of Pulmonary Disease, American Board of Internal Medicine	158220	1998	2012
Diplomate, Subspecialty of Critical Care Medicine, American Board of Internal Medicine	158220	1999	2012

Licensure

<u>State</u>	<u>Date</u>	<u>Perm./Temp.</u>	<u>Number</u>	<u>Renewal Date</u>
California	2006	Perm	C52434	8/19

Professional and Academic Positions

B. Academic

<u>Year</u>	<u>Position</u>	<u>Institution</u>
1991-1995	Clinical Fellow in Medicine	Harvard Medical School, Boston, MA
1995-1996	Instructor in Medicine	Harvard Medical School, Boston, MA
1996-1998	Clinical Fellow in Medicine	Harvard Medical School, Boston, MA
1998-2001	Instructor in Medicine	Harvard Medical School, Boston, MA
2001	Assistant Professor of Medicine	Harvard Medical School, Boston, MA
2001-2004	Assistant Professor of Medicine (Clinical)	University of Iowa Carver College of Medicine, Iowa City, IA
2004-2006	Associate Professor of Medicine (Clinical)	University of Iowa Carver College of Medicine, Iowa City, IA
2006-2010	Associate Professor of Clinical Medicine	University of California, San Diego School of Medicine, La Jolla, CA
2010- present	Professor of Clinical Medicine	University of California, San Diego School of Medicine, La Jolla, CA
2018- present	Kenneth M. Moser Professor of Medicine	University of California, San Diego School of Medicine, La Jolla, CA

C. **Administrative**

<u>Year</u>	<u>Position</u>	<u>Institution</u>
1998-2001	Director, Internal Medicine Training Program	Beth Israel Deaconess Medical Center, Boston, MA
2000-2001	Institute Education Scholar	Carl J. Shapiro Institute for Education and Research at Harvard Medical School and Beth Israel Deaconess Medical Center, Boston, MA
2000-2001	Director, Pulmonary Hypertension Center, Centers for Thoracic Diseases	Beth Israel Deaconess Medical Center, Boston, MA
2001 - 2006	Director, Pulmonary Hypertension Program	UI Heartcare, University of Iowa Hospitals and Clinics, Iowa City, IA
2001 – 2006	Co-Curriculum Director, Semester II	University of Iowa Carver College of Medicine, Iowa City, IA
2002 - 2006	Assistant Dean for Student Affairs and Curriculum	University of Iowa Carver College of Medicine, Iowa City, IA
2006 - 2017	Associate Dean for Undergraduate Medical Education	University of California, San Diego School of Medicine, La Jolla, CA
2017 – present	Vice-Chair for Education, Department of Internal Medicine	University of California, San Diego School of Medicine, La Jolla, CA
2017 – 2018	Vice-Chief of Pulmonary, Critical Care, and Sleep Medicine Division	University of California, San Diego School of Medicine, La Jolla, CA
2018-present	Chief of Pulmonary, Critical Care, and Sleep Medicine Division	University of California, San Diego School of Medicine, La Jolla, CA

Honors and Awards

<u>Year</u>	<u>Honor</u>
1986	Magna cum Laude (A.B. History) and High Departmental Honors, Brown University
1988	Kenneth L. Burden Award for Excellence in Microbiology, Baylor College of Medicine
1990	Alpha Omega Alpha, Baylor College of Medicine
1991	Harry Caplovitz Award as Outstanding Graduate in Internal Medicine, Baylor College of Medicine
1991	August Busch Award for Excellence in Pharmacology, Baylor College of Medicine
1999	Outstanding Small Group Tutor, Harvard Medical School Class of 2001
1999	Nominee, Stone Award for Outstanding Teaching and Mentoring, Beth Israel Deaconess Medical Center/Harvard Medical School
2000	Nominee, Faculty Award for Excellence in Clinical Teaching, Harvard Medical School
2003	M1 Faculty Member of the Year, University of Iowa Carver College of Medicine, Iowa City, IA
2003	Above and Beyond Award, University of Iowa Hospitals and Clinics
2004	Nominee, M1 Faculty Member of the Year, University of Iowa Carver College of Medicine, Iowa City, IA
2004	Humanism in Medicine Keynote Speaker, selected by the University of Iowa Carver College of Medicine Class of 2006
2004	Outstanding Teacher Award, University of Iowa Pulmonary/Critical Care Fellowship Program
2005	Nominee, M1 Faculty Member of the Year, University of Iowa Carver College of Medicine, Iowa City, IA
2005	Fellow, American College of Physicians
2005	University of Iowa Carver College of Medicine Commencement Keynote Speaker
2006	Nominee, M1 Faculty Member of the Year, University of Iowa Carver College of Medicine, Iowa City, IA.
2006	University of Iowa Carver College of Medicine Commencement Keynote Speaker
2006	Nominee, Humanism in Medicine Faculty Award, University of

	Iowa Carver College of Medicine
2006	Nominee, Foundations of Clinical Practice- IV Teaching Award
2009	Athena Award for Outstanding Teaching and Mentoring, UCSD Pulmonary/ Critical Care Fellowship Program
2010	American Thoracic Society Clinical Problems Assembly National Award for Outstanding Clinician Educator
2012	Nathan Sidel Visiting Professor of the Art of Medicine, Harvard Medical School
2012	Nominee, Kaiser Excellence in Teaching Award, UCSD School of Medicine
2013	Distinguished Achievement Award, University of Iowa Division of Pulmonary, Critical Care, and Occupational Medicine
2013	Nominee, Kaiser Excellence in Teaching Award, UCSD School of Medicine
2013	UCSD Clinical Advancement and Recognition of Excellence in Service (CARES) Award
2014	American Thoracic Society Presidential Citation for Outstanding Contributions via the Planning and Evaluation Committee
2014	Nominee, Kaiser Excellence in Teaching Award, UCSD School of Medicine
2015	Visiting Professor of Medical Education, University of British Columbia
2016	UCSD School of Medicine Class of 2016 “Last Lecturer”
2017	UCSD School of Medicine Class of 2017 “Last Lecturer”
2017	Visiting Professor of Pulmonary and Critical Care Medicine, University of Pittsburgh
2018	Visiting Professor, Harvard Medical School Pulmonary and Critical Care Medicine Training Program (Massachusetts General Hospital, Beth Israel Deaconess Medical Center)
2018- present	Kenneth M. Moser Professor of Medicine
2019	Hillcrest Critical Care Unit Employee of the Month (February)
2019	Voted Top Doctor (Critical Care) by the San Diego County Medical Society/San Diego Magazine

II. TEACHING

A. Teaching Assignments

Classroom, Seminar, Teaching Laboratory

Harvard Medical School

<u>Year</u>	<u>Activity</u>	<u>Hours/Year</u>
1994 - 2001	Patient-Doctor physical diagnosis (HMS II) tutor for the chest examination. Involved approximately 20 medical students.	12
1998 - 2001	Core Medicine I (HMS III) – lecture to each group of core I students at BIDMC regarding utility and interpretation of pulmonary function tests and arterial blood gases. Involved approximately 32 medical students.	8
1998 - 1999	Human Systems (HMS II) Pulmonary and Cardiovascular Pathophysiology Small Group Tutor. Involved approximately 7 students.	54
2000 - 2001	Human Systems (HMS I) Pulmonary Minicase Tutor. Involved 20 students.	4

University of Iowa Roy J. and Lucille A. Carver College of Medicine

2001 – 2006	Course Co-Director, M1 Human Organ Systems Course (050:240)	20
2001 – 2003	Physical Examination Tutor, M2 Foundations of Clinical Practice III Course (050:164)	8
2002 - 2006	Pulmonary Vascular Disease Lecturer, M2 Foundations of Clinical Practice IV Course (050:165)	1

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2002 - 2003	Physical Examination Tutor, M1 Foundations of Clinical Practice II Course (050:163)	8
2002 – 2006	Clinician Mentor, M2 Foundations of Clinical Practice IV Course (050:165)	20
2002 – 2006	Clinical Reasoning Lecturer, M1 Foundations of Clinical Practice I Course (050:162)	1
2004 - 2006	Course Co-Director, Medicine, Narrative and Poetics (050:280)	36

University of California, San Diego School of Medicine

2006 - 2010	Physical Diagnosis Preceptor, Introduction to Clinical Medicine (SOM 201A)	10
2006 - 2010	Small group instructor, Organ Physiology (SOM 206)	8
2007 - 2010	Small group instructor, Introduction to Clinical Medicine (SOM 201B)	10
2007 - present	Small group instructor, Principles to Practice (SOM 410)	8
2007- 2010	Course Co-Director, At the Crossroads: Science Meets the Medical Patient. (MED 275)	36
2010 - 2017	Problem-based learning preceptor, Clinical Foundations (SOM 224)	6-16
2010 - present	OSCE evaluator, Clinical Foundations (SOM 224)	16
2011 – present	Lecturer (SOM 238)	5
2011 – 2017	Course director/Lecturer (SOM 240)	2-33
2012	Lecturer (SURG 263)	1
2013-present	Lecturer (ANES 223)	2
2013-present	Lecturer (MED296E)	4
2017-2019	Course director (MED 435)	30

Clinical Teaching (in ward, clinic, or operating room)

Beth Israel Deaconess Medical Center

(year)	(where teaching occurred)	(wks./year)	(hrs./wk.)
1998-2001	Attending Physician, Medical Service	4	25
1998-2001	Attending Physician, Pulmonary Service	9	30
University of Iowa Roy J. and Lucille A. Carver College of Medicine			
2001-2006	Attending Physician, Pulmonary Consultation Service	8	40
2001-2006	Attending Physician, Medical Intensive Care Unit	8	60
University of California, San Diego School of Medicine			
2006-2008	Attending Physician, Pulmonary Consultation Service (Hillcrest)	2	30
2006-present	Attending Physician, Medical Intensive Care Unit (Thornton)	4-10	50
2006-present	Attending Physician, Fellows' Ambulatory Clinic (Hillcrest)	6	10

B. Other teaching contributions

2001 - 2002	Research Mentor, Biomedical Engineering 51:085/51:086 (Senior Design I/II.) Advised and mentored undergraduate students Yasser Dahab, Elijah Edwards, and Chris Haynen in the project "Minimally Invasive Methods for Dynamic Pulmonary Artery Pressure Measurements"
2002 – 2006	Career advisor to 1 – 3 University of Iowa Internal Medicine House Officers/year.
2002 - 2006	Summer Undergraduate MSTP Research (SUMR) Program Clinical Mentor, University of Iowa Carver College of Medicine
2007 - 2009	Workshop leader, National Center of Leadership in Academic Medicine, University of California, San Diego School of Medicine
2008-2009	Independent Study Project Mentor, George Bruque (medical student), University of California, San Diego School of Medicine
2008-2009	Independent Study Project Mentor, Jana Simonds (medical student), University of California, San Diego School of Medicine

- 2008-2010 Independent Study Project Mentor, Sonia Chen (medical student), University of California, San Diego School of Medicine
- 2009-2011 Co-author, American Board of Internal Medicine Chronic Obstructive Pulmonary Disease (COPD) PIM™ Practice Improvement Module (represented the American Thoracic Society and worked collaboratively with representatives from the American Board of Internal Medicine, American College of Physicians, and American College of Chest Physicians to develop this official ABIM resource for maintenance of board certification in internal medicine)

Institutional Conferences, Grand Rounds, Journal Clubs, Etc.

- 1996 Noon Lecture Series: “Tuberculosis Skin Testing”
Developed and presented lecture on the proper indications, technique, and interpretation of Mantoux testing. (Involved 16 house officers and 4 students) West Roxbury VA Medical Center
- 1996 Combined Conference: “Smoke Inhalation”
Developed and presented lecture on the approach to the patient with smoke inhalation injuries. (Involved 12 fellows, 2 house officers and 4 students)
Combined Harvard Pulmonary Fellowship Program
- 1996 Housestaff Lecture Series: “Sarcoidosis”
Developed and presented lecture on the pathophysiology, diagnosis, and treatment of sarcoidosis. (Involved 12 house officers) Metrowest Medical Center
- 1997 Thorndike Lecture: “Dilemmas in the Diagnosis of Pulmonary Embolism”
Developed and presented lecture on state of the art diagnostic approach to pulmonary embolism. (Involved 50 house officers and 6-12 students) Beth Israel Deaconess Medical Center
- 1998 Noon Lecture Series: “Sarcoidosis: Case Studies”
Developed and presented a case-based lecture on common problems encountered in the care of patients with sarcoidosis. (Involved 16 house officers and 6 students) West Roxbury VA Medical Center

- 2000 Thorndike Lectures: "Sarcoidosis: Case Studies" Developed and presented a case-based lecture on common problems encountered in the care of patients with sarcoidosis. (Involved 50 house officers and 6-12 students) Beth Israel Deaconess Medical Center
- 2000 Grand Rounds: "Pulmonary Hypertension: Approach and Management" Developed and presented lecture on the classification, pathophysiology, and treatment of pulmonary hypertension. (Involved approximately 60 attending physicians, 60 house officers, and 15 medical students) Beth Israel Deaconess Medical Center
- 2000 "Case Records of the Massachusetts General Hospital: A 67 year-old woman with dyspnea, pulmonary hypertension, and a pulmonary artery mass." (Involved approximately 10 faculty members, 4 fellows, 10 house officers and 10 students) Massachusetts General Hospital
- 2001 Division of Pulmonary, Critical Care, and Occupational Medicine Conference: "Oxygen Toxicity." Developed and presented lecture on the pathophysiology and clinical significance of oxygen toxicity. (Involved approximately 10 faculty members, 8 fellows, 2 house officers, and 2 medical students) University of Iowa Hospitals and Clinics
- 2001 Division of Pulmonary, Critical Care, and Occupational Medicine Sunrise Seminar: "Poisonings and Intoxications." Developed and presented literature review on the pathophysiology and management of common intoxication syndromes. (Involved approximately 5 faculty members, 8 fellows) University of Iowa Hospitals and Clinics
- 2002 Department of Internal Medicine Noon Conference: "Pulmonary Hypertension." Developed and presented lecture on the pathophysiology, diagnosis, and management of pulmonary hypertension. (Involved approximately 5 faculty members, 8 fellows) University of Iowa Hospitals and Clinics

- 2002 Division of Pulmonary, Critical Care, and Occupational Medicine Research Conference: "Phosphodiesterase 5 Inhibitors in Pulmonary Hypertension." Developed and presented lecture on the rationale and potential therapeutic role for PDE-5 inhibitors in pulmonary arterial hypertension. (Involved approximately 10 faculty members, 8 fellows, 2 house officers, and 2 medical students) University of Iowa Hospitals and Clinics
- 2002 Department of Internal Medicine Grand Rounds: "Pulmonary Veno-Occlusive Disease." Developed and presented lecture on current concepts of pathogenesis, diagnosis, and treatment of pulmonary veno-occlusive disease. (Involved approximately 40 faculty members, 10 fellows, 20 house officers, and 8 medical students) University of Iowa Hospitals and Clinics
- 2002 Broadlawns Medical Center Department of Internal Medicine Educational Conference: "Asthma 2002." Developed and presented a lecture on state of the art diagnosis and management of asthma for approximately 10 primary care physicians and 16 residents.
- 2003 Division of Cardiology Fellows Conference: "State of the Art: Pulmonary Hypertension." Developed and presented a lecture on state of the art diagnosis and management of pulmonary hypertension for approximately 15 fellows. University of Iowa Hospitals and Clinics.
- 2003 Department of Obstetrics and Gynecology Grand Rounds: "Asthma and Pregnancy." Developed and presented a lecture on the impact of asthma upon pregnancy and vice versa for approximately 20 faculty members, 12 fellows, 16 residents, and 8 medical students. University of Iowa Hospitals and Clinics.
- 2003 Division of Pediatric Cardiology Clinical Conference: "Pulmonary Hypertension." Developed and presented a lecture on current concepts of pulmonary hypertension for approximately 8 faculty members, 6 fellows, and 4 residents. University of Iowa Hospitals and Clinics.

- 2003 Division of Pulmonary, Critical Care, and Occupational Medicine Research Conference: “Selective Endothelin-1 Receptor Antagonists in Pulmonary Hypertension.” Developed and presented lecture on the rationale and potential therapeutic role for ET-1A-specific receptor antagonists in pulmonary arterial hypertension. (Involved approximately 8 faculty members, 8 fellows, 1 house officers, and 2 medical students) University of Iowa Hospitals and Clinics
- 2003 Division of Pulmonary, Critical Care, and Occupational Medicine Clinical Conference: “Nonresolving Pneumonia.” Developed and presented lecture on the approach to patients with the clinical problem of nonresolving pneumonia. (Involved approximately 10 faculty members, 8 fellows, 2 house officers, and 2 medical students) University of Iowa Hospitals and Clinics
- 2003 Division of Pulmonary, Critical Care, and Occupational Medicine Clinical Conference: “Maggot Debridement Therapy.” Developed and presented lecture on the use of maggots in accelerating the healing of chronic ulcers. (Involved approximately 10 faculty members, 8 fellows, 2 house officers, and 2 medical students) University of Iowa Hospitals and Clinics
- 2003 Department of Internal Medicine Housestaff Noon Conference: “Cases in Pulmonary Embolism.” Developed and presented lecture on common errors in the diagnosis and management of pulmonary embolism. (Involved approximately 12 house officers, and 4 medical students) University of Iowa Hospitals and Clinics
- 2004 Family Medicine Housestaff Conference: “Pulmonary Hypertension.” Developed and presented a lecture on current concepts of pulmonary hypertension for approximately 8 faculty members, 10 residents. Northeast Iowa Family Practice Residency Program, Waterloo, Iowa.

- 2004 Family Medicine Housestaff Conference: “Cases in Pulmonary Embolism.” Developed and presented lecture on common errors in the diagnosis and management of pulmonary embolism for approximately 8 faculty members, 10 residents. Northeast Iowa Family Practice Residency Program, Waterloo, Iowa.
- 2004 Department of Internal Medicine Grand Rounds: “Pulmonary Hypertension: New Developments and Challenges.” Developed and presented a lecture on recent developments and current concepts of pulmonary hypertension for approximately 35 faculty members, 15 house officers, and 10 medical students. Iowa City Veterans Administration Medical Center
- 2004 Division of Pulmonary and Critical Care Medicine Fellows Conference: “State of the Art: Pulmonary Hypertension.” Developed and presented a lecture on state of the art diagnosis and management of pulmonary hypertension for approximately 12 cardiology fellows. University of Iowa Hospitals and Clinics.
- 2005 Division of Pulmonary, Critical Care, and Occupational Medicine Research Conference: “Inhaled Iloprost.” Developed and presented a lecture on the mechanism and therapeutic role of inhaled iloprost in the treatment of pulmonary arterial hypertension. (Involved approximately 16 faculty members, 8 fellows, 3 house officers, and 2 medical students) University of Iowa Hospitals and Clinics
- 2005 Division of Cardiology Fellows Conference: “State of the Art: Pulmonary Hypertension.” Developed and presented a lecture on state of the art diagnosis and management of pulmonary hypertension for approximately 15 cardiology fellows. University of Iowa Hospitals and Clinics.
- 2005 Department of Internal Medicine Housestaff Conference: “Pregnancy and the Lung.” Developed and presented a lecture on physiologic changes and respiratory system considerations during pregnancy for approximately 30 house officers and 10 medical students. University of Iowa Hospitals and Clinics.

- 2005 Department of Internal Medicine Grand Rounds: “Pulmonary Arterial Hypertension: New Developments and Challenges.” Developed and presented a lecture on recent developments and current concepts of the classification, pathogenesis, diagnosis, and management of pulmonary arterial hypertension for approximately 100 faculty members, 40 house officers, and 15 medical students. University of Iowa Hospitals and Clinics
- 2006 Division of Cardiology Fellows Conference: “State of the Art: Pulmonary Hypertension.” Developed and presented a lecture on state of the art diagnosis and management of pulmonary hypertension for approximately 15 cardiology fellows. University of Iowa Hospitals and Clinics.
- 2006 Division of Pediatric Cardiology Conference: “Paradigm Shifts in Adult Pulmonary Arterial Hypertension.” Developed and presented a lecture on the current diagnosis and management of pulmonary arterial hypertension for approximately 5 pediatric cardiology faculty members and 5 pediatric cardiology fellows. University of Iowa Hospitals and Clinics.
- 2006 Division of Cardiology Fellows Conference: “Pulmonary Tumor Emboli.” Developed and presented a lecture on the diagnosis, differential diagnosis, and management of pulmonary tumor embolism for approximately 12 cardiology fellows. University of Iowa Hospitals and Clinics.
- 2006 Medical Education Development Series: “Some Syllables About Syllabi.” Developed and presented a lecture on syllabus and curriculum development in medical education for approximately 30 faculty members. University of California, San Diego School of Medicine.
- 2007 Department of Internal Medicine Grand Rounds: “Hemolytic Anemia-Related Pulmonary Hypertension.” Developed and presented a lecture on the epidemiology, clinical significance, pathophysiology and therapy of pulmonary arterial hypertension due to chronic hemolytic anemias for approximately 50 faculty members, 40 house officers, and 15 medical students. University of California, San Diego Medical Center.

- 2007 Division of Pulmonary and Critical Care Medicine Scholarly Activities Meeting. Developed and presented a lecture on career development issues for non-research focused academic faculty for approximately 15 faculty members and 15 pulmonary fellows. University of California, San Diego School of Medicine.
- 2008 Medical Education Development Series: “Difficult Educational Conversations” Developed and presented an interactive seminar on the elements of and approach to difficult conversations for educators for approximately 15 faculty members. University of California, San Diego School of Medicine.
- 2008 Department of Internal Medicine Residents’ Conference: “Community Acquired Pneumonia.” Developed and presented an interactive case-based seminar on the epidemiology, diagnosis and treatment of community-acquired pneumonia for approximately 60 house officers and 15 medical students. University of California, San Diego Medical Center.
- 2008 Department of Psychiatry Grand Rounds: “Implementation of Active Teaching and Learning.” Developed and presented an interactive session on the theory and practical options for active learning in a variety of didactic sessions for approximately 50 faculty members, 25 house officers, and 10 medical students. University of California, San Diego Medical Center.
- 2008 Department of Internal Medicine Residents’ Conference: “Lung Disease in Pregnancy.” Developed and presented an interactive case-based seminar on the epidemiology, pathophysiology, diagnosis and management of common lung conditions during pregnancy for approximately 60 house officers and 15 medical students. University of California, San Diego Medical Center.
- 2009 Medical Education Development Series: “Creating Active Learners” Developed and presented an interactive seminar on approaches for implementing active learning strategies among students for approximately 40 faculty members. University of California, San Diego School of Medicine.

- 2010 Division of Pulmonary and Critical Care Medicine Grand Rounds: “Anti-VEGF Therapies in Hereditary Hemorrhagic Telangiectasia.” Developed and presented a lecture on evolving treatment strategies for HHT using bevacizumab and other anti-angiogenesis agents to approximately 15 fellows and 15 faculty members. University of California, San Diego School of Medicine.
- 2010 Family Medicine Residents’ Conference: “Cases in Venous Thromboembolism.” Developed and presented an interactive seminar on diagnostic and therapeutic issues related to venous thromboembolism for approximately 20 residents and 5 faculty members. Scripps-Chula Vista Family Medicine Residency Program.
- 2010 Division of Pulmonary and Critical Care Medicine Fellows’ Core Didactic Conference: “Sepsis: A Case-Based Update.” Developed and presented an interactive seminar on new approaches to sepsis and septic shock for approximately 15 fellows and 5 faculty members. University of California, San Diego School of Medicine.
- 2011 Family Medicine Residents’ Conference: “Sepsis: A Case-Based Update.” Developed and presented an interactive seminar on new approaches to sepsis and septic shock for approximately 20 residents and 5 faculty members. Scripps-Chula Vista Family Medicine Residency Program.
- 2012 Division of Pulmonary and Critical Care Medicine Grand Rounds: “Navigating Change: From Optimal Design to Maximal Success.” Developed and presented lecture on development and key features of UCSD’s new Integrated Scientific Curriculum. Involved approximately 20 faculty members and 10 fellows. University of California, San Diego School of Medicine.
- 2012 Medical Education Development Series: “Lecturing Skills Development Seminar” Co-developed and co-directed an interactive seminar on the elements of and techniques of effective lecturing for approximately 15 faculty members. University of California, San Diego School of Medicine.

- 2012 Department of Internal Medicine Grand Rounds: “The Art of Medicine and the Paradox of Progress.” Developed and presented lecture on the traditional missions of medicine, and their diminution since the late 20th century. Involved approximately 45 attending physicians, 25 house officers, and 15 medical students. University of California, San Diego Medical Center.
- 2013 Pulmonary Division Fellows’ Didactic Series: “Pulmonary Vasculitis.” Developed and presented lecture on the the epidemiology, presentation, and treatment of common pulmonary vasculidites. Involved approximately 10 pulmonary fellows. University of California, San Diego Medical Center.
- 2014 Department of Internal Medicine Grand Rounds: “Sepsis: An Update for the Non-Sepsisologist.” Developed and presented lecture on changes to the treatment of sepsis and septic shock between 2001 and 2014. Involved approximately 50 attending physicians, 20 house officers, and 20 medical students. University of California, San Diego Medical Center.
- 2014 Family Medicine Residents’ Conference: “Cases in Venous Thromboembolism.” Developed and presented an interactive seminar on diagnostic and therapeutic issues related to venous thromboembolism for approximately 20 residents and 5 faculty members. Scripps-Chula Vista Family Medicine Residency Program.
- 2015 UCSD Division of Pulmonary and Critical Care Medicine Grand Rounds: Physiology of pulmonary embolism. Developed and presented lecture on the mechanisms of hypoxemia and hemodynamic changes in pulmonary embolism. Involved approximately 40 attendees.
- 2015 Scripps-Mercy Hospital Department of Medicine Grand Rounds: “Update on Sepsis and Septic Shock.” Developed and presented lecture on the recent developments in the pathophysiology, diagnosis, classification, and management of septic shock. Involved approximately 50 attendees.

- 2015 UCSD Pulmonary Fellows Conference: Poisonings and intoxications. Developed and presented lecture on the diagnosis and management of intoxications commonly encountered in the critical care setting. Involved approximately 20 attendees.
- 2017 UCSD Department of Dermatology Grand Rounds: Creating Change in Complex Institutions. Developed and presented a lecture on creating change in complicated academic medical environments. Involved approximately 50 faculty, allied health and resident attendees.
- 2017 UCSD Internal Medicine Training Program Friday School: Interstitial Lung Disease. Developed and presented a lecture on diffuse parenchymal lung disease. Involved approximately 75 resident attendees.
- 2019 Scripps-Mercy Hospital Department of Medicine Grand Rounds: "Update on Pulmonary Hypertension" Developed and presented lecture on the recent developments in the pathophysiology, diagnosis, classification, and management of septic shock. Involved approximately 50 attendees.
- 2020 UCSD Department of Medicine Grand Rounds: A NonCOVID-19 Update in Pulmonary Medicine. Developed and presented a lecture reviewing key publications in pulmonary medicine in 2019-2020.. Involved approximately 300 faculty, fellow, resident, and student attendees.

Teaching Committees:

- 1998-2001 Resident as Teacher Curriculum Development Committee, Harvard Medical School
- 1999-2001 Graduate Medical Education Committee, Beth Israel Deaconess Medical Center
- 1999-2001 Department of Medicine Medical Student Education Committee, Beth Israel Deaconess Medical Center
- 1999-2006 Education Committee, American Thoracic Society
- 2001-2004 Online CME Pilot Evaluation Committee, American Medical Association

2001-2006	Curriculum Committee (Chair, 2003-2006), University of Iowa Carver College of Medicine
2002-2004	Chair, Committee on Computer-Based Evaluation, University of Iowa Carver College of Medicine
2005-2006	CME Committee, University of Iowa Carver College of Medicine
2006-2017	Core Curriculum Committee, University of California, San Diego School of Medicine
2006-2017	Committee on Educational Policy, University of California, San Diego School of Medicine
2006-2017	Electives Committee, University of California, San Diego School of Medicine

Medical Student Mentoring and Counseling:

In my role as UCSD's Associate Dean for Undergraduate Medical Education (2006-2017), I engaged in didactic presentations and small group counseling related to medical school transition issues, professionalism, and career planning that involve each medical school class. I also met individually with every senior medical student discuss their specific specialties choice and strategies for residency applications as I prepared all of the medical student performance evaluations ("dean's letters.") In addition, I met with a very large number of students individually to advise and counsel them regarding a wide variety of academic and personal issues. In my current role as Vice-Chair for Education in the Department of Medicine (2017-present) I meet with approximately 40-50 fourth-year students per year who are pursuing categorical or preliminary residency positions in internal medicine both to counsel regarding programs and application strategies, and to prepare their Medicine Chair letters of support.

National Presentations:

- 2004 “ACGME Duty Hour Requirements.” Developed and delivered a lecture on the historical development of graduate medical education, and the definitions and consequences of noncompliance with current ACGME requirements. (Involved approximately 100 physicians and medical administrators.) Conference on Teaching Physician Documentation and Compliance Rules (Dallas, TX)
- 2004 “Is That Your Final Answer? - American Board of Internal Medicine/ American Thoracic Society Recertification SEP Review Course on Critical Care Module B.” Developed and Co-Directed a review course for specialty board recertification in critical care medicine. (Involved approximately 75 physicians.) American Thoracic Society International Conference (Orlando, FL)
- 2005 “PG20 American Board of Internal Medicine/ American Thoracic Society SEP Review in Pulmonary Medicine on Pulmonary Disease Recent Advances Module 24-R.” Co-Directed a review course for specialty board recertification in pulmonary medicine. (Involved approximately 100 physicians.) American Thoracic Society International Conference (San Diego, CA)
- 2005 “Computer-Based Testing: New Paradigms for Delivery.” Chaired a breakout session examining alternatives to a fixed testing center for the delivery of medical school computer-based examinations. (Involved 45 attendees.) Association of American Medical Colleges Slice of Life Conference For Medical Multimedia Developers and Educators (Portland, OR)
- 2005 “Challenges of Professional Development in Academic Medicine.” Co-chaired a session relating to career development and career paths of Internal Medicine Residency Program Directors. (Involved approximately 75 attendees.) Association of Program Directors in Internal Medicine (Cleveland, OH)
- 2005 “Affecting Curricular Change.” Developed a presentation and Co-Chaired a panel discussion of factors impacting the success of curricular innovations. (Involved approximately 100 attendees.) Association of American Medical Colleges Annual Meeting (Washington, DC)

- 2006 “Residency Training and Undergraduate Medical Education: Is the Tail Wagging the Dog.” Co-chaired a session on the competing curricular agendas of the fourth year of medical school. (Involved approximately 75 attendees.) Association of American Medical Colleges Group on Student Affairs (Philadelphia, PA)
- 2006 “PG7 American Board of Internal Medicine/ American Thoracic Society SEP Review in Critical Care Medicine Built Around Critical Care Module 22R Recent Advances.” Co-Direct a review course for specialty board recertification in pulmonary medicine. (Involved approximately 80 attendees.) American Thoracic Society International Conference (San Diego, CA)
- 2006 “Just-in-Time Learning: Does It Have Efficacy for Long-Term Practice Benefits?” Presented and Co-Chaired a session on the benefits and weaknesses of point-of-care educational interventions. (Involved approximately 60 attendees.) Association of American Medical Colleges National Meeting (Seattle, WA)
- 2007 “Clinical Updates from the American College of Physicians.” Moderated the presentation of multiple subspecialty updates/presenters and developed and delivered “Update in Pulmonary Medicine - 2007.” (Involved approximately 75 attendees.) American Academy of Allergy, Asthma & Immunology Annual Meeting (San Diego, CA)
- 2007 “ERA 002-Exciting Research Advances: Therapeutic Strategies in the Treatment of Obesity and Approaches to Interventional Heart Disease.” Moderated the presentation of multiple speakers. (Involved approximately 200 attendees.) American College of Physicians Annual Meeting (San Diego, CA)
- 2007 “Hypoxemia In Pulmonary Embolism: Complex Mechanisms In A Common Problem.” Developed and presented lecture as part of “PG19 Clinical Controversies: A Physiologic Approach to Patient Care.” (Involved approximately 60 attendees.) American Thoracic Society International Conference (San Francisco, CA)

- 2007 “PG21 Critical Care Review: Built Around ABIM Critical Care Module 02A.” Co-Directed and participated in postgraduate course focused on critical care board review and recertification. (Involved approximately 75 attendees.) American Thoracic Society International Conference (San Francisco, CA)
- 2008 “PG8 Pulmonary and Critical Care Reviews: Built Around ABIM Pulmonary Module A9-E and Critical Care Module A2-E.” Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 70 attendees.) American Thoracic Society International Conference (Toronto, Canada)
- 2008 “Clinical Year in Review – Issues in the Training of Fellows and Residents.” Developed and presented lecture for approximately 1,000 attendees. American Thoracic Society International Conference (Toronto, Canada)
- 2008 “Pharmaceutical Samples in the Educational Setting.” Participated in a Pro/Con debate for approximately 200 attendees. Association of American Medical Colleges Western Group on Educational Affairs Annual Meeting (Asilomar, CA)
- 2008 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 80 attendees.) American College of Chest Physicians Annual Meeting (Philadelphia, PA)
- 2009 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module A2-F and Pulmonary Disease Self-Evaluation Process (SEP) Module A9-F. Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 80 attendees.) American College of Chest Physicians (San Diego, CA)

- 2009 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module A2-F and Pulmonary Disease Self-Evaluation Process (SEP) Module A9-F. Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 80 attendees.) American Thoracic Society International Conference (San Diego, CA)
- 2010 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 75 attendees.) American College of Chest Physicians (Vancouver, BC, Canada)
- 2010 “Principles of Adult Learning.” Developed and presented lecture for approximately 100 attendees as part of “Post graduate Course 30: Mastering Clinical Teaching Skills for Pulmonary and Critical Care.” American Thoracic Society International Conference (New Orleans, LA)
- 2010 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 80 attendees.) American Thoracic Society International Conference (New Orleans, LA)
- 2011 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course focused on pulmonary and critical care board review and recertification. (Involved approximately 90 attendees.) American Thoracic Society International Conference (Denver, CO)

- 2012 “Pulmonary Hypertension: Key Points and Pitfalls.” Developed and delivered a lecture on the key current elements of diagnosis, classification, and management of pulmonary hypertension. (Involved approximately 200 attendees.) Society of Hospital Medicine National Conference (San Diego, CA)
- 2012 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course PG5 focused on pulmonary and critical care board review and recertification. (Involved approximately 75 attendees.) American Thoracic Society International Conference (San Francisco, CA)
- 2012 “Physiologic Derangements in Pulmonary Hypertension.” Developed and delivered a lecture on the underlying physiology of pulmonary hypertension and its relation to common symptoms as part of the postgraduate course PG25 “Master Physiology Class: Common Pulmonary Diseases from a Physiologic Perspective.” (Involved approximately 60 attendees.) American Thoracic Society International Conference (San Francisco, CA)
- 2012 “Principles of Adult Learning.” Developed and presented lecture as part of the postgraduate course PG27 “Mastering Clinical Teaching Skills for Pulmonary and Critical Care.” (Involved approximately 50 attendees.) American Thoracic Society International Conference (San Francisco, CA)
- 2013 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course PG7 focused on pulmonary and critical care board review and recertification. (Involved approximately 80 attendees.) American Thoracic Society International Conference (Philadelphia, PA)
- 2014 Resident Bootcamp Instructor (Pulmonary Function Testing.) Developed and taught the pulmonary function test interpretation small group sessions of this postgraduate course. (Involved approximately 75 internal medicine residents.) American Thoracic Society International Conference (San Diego, CA)

- 2014 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course PG11 focused on pulmonary and critical care board review and recertification. (Involved approximately 75 attendees.) American Thoracic Society International Conference (San Diego, CA)
- 2014 Chronic Thromboembolic Pulmonary Hypertension and UCSD: Going Beyond 3,000 PTEs. Co-Chaired the Kenneth Moser, M.D. Memorial Symposium. (Involved approximately 100 attendees.) American Thoracic Society International Conference (San Diego, CA)
- 2014 The Art of Medicine and the Paradox of Progress. Developed and presented lecture on the traditional missions of medicine, and their diminution since the late 20th century. Involved approximately 75 attending physicians. Joint Harvard Medical School/UCSD Principles of Medical Education course (San Diego, CA)
- 2015 Update in pulmonary medicine: evidence published in 2014. Developed and presented lecture on recent advances in pulmonary medicine. Involved approximately 500 attending physicians. American College of Physicians Annual Meeting (Boston, MA)
- 2015 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course PG12 focused on pulmonary and critical care board review and recertification. (Involved approximately 75 attendees.) American Thoracic Society International Conference (Denver, CO)
- 2015 Physiology of pulmonary hypertension. Developed and presented lecture on the mechanisms of hypoxemia and hemodynamic changes in pulmonary hypertension. Involved approximately 100 attendees. American Thoracic Society International Conference (Denver, CO)

- 2015 Emerging Solutions: Valuing Education- Exploring Organizational Strategies to Promote Educational Efforts and Innovation by Faculty Within and Outside the Institution. Developed and presented a lecture on innovative funding models for medical education and participated in a panel discussion on the topic. Involved approximately 100 attendees. Association of American Medical Colleges Learn Serve Lead Annual Meeting 2015 (Baltimore, MD)
- 2016 Pulmonary hypertension in pregnancy. Developed and presented a lecture on the etiologies, detection, and management of pulmonary hypertension in pregnant patients with rheumatic disease. Involved approximately 100 attendees. 9th International Conference on Reproduction, Pregnancy and Rheumatic Diseases (San Diego, CA)
- 2016 American Board of Internal Medicine Critical Care Medicine Self-Evaluation Process (SEP) Module and Pulmonary Disease Self-Evaluation Process (SEP) Module. Co-Directed and participated in postgraduate course PG14 focused on pulmonary and critical care board review and recertification. (Involved approximately 75 attendees.) American Thoracic Society International Conference (San Francisco, CA)
- 2016 Innovative Models in Interprofessional Education. Developed and presented a lecture on UCSD innovations in interprofessional education and participated in a panel discussion on the topic. Involved approximately 100 attendees. Association of American Medical Colleges Learn Serve Lead Annual Meeting 2016 (Seattle, WA)
- 2017 Fostering wellness in the clinical learning environment: A systems approach to caring for the caregivers. Developed and presented a lecture on UCSD innovations in student and physician wellness. Involved approximately 100 attendees. Association of American Medical Colleges Learn Serve Lead Annual Meeting 2017 (Boston, MA)

2017 Creating Change in Complex Institutions. Developed and presented a lecture on creating change in complicated academic medical environments. Involved approximately 100 attendees. American College of Rheumatology Annual Meeting 2017 (San Diego, CA)

Formal Study to Improve Teaching Abilities:

2002 New Technology in the Learning Environment (nTitle), University of Iowa

2002 Optimizing Examination Questions, Office of Consultation and Research in Medical Education, University of Iowa Carver College of Medicine

2004 Leaders in Medical Education Program, Harvard Macy Institute, Boston, MA

Local and Regional CME Talks

- 1999 “Recent Advances in Pulmonary Medicine.”
Developed and presented a lecture on new developments in pulmonary medicine for an audience of approximately 1,500 primary care physicians, nurse practitioners, fellows and housestaff. Harvard Medical School Department of Ambulatory Care and Prevention.
- 2000 “Pulmonary Medicine: New Information for Practitioners” Developed and presented a lecture on new developments in pulmonary medicine for an audience of approximately 1,000 primary care physicians, nurse practitioners, fellows, and housestaff as part of the Massachusetts General Hospital/Harvard Medical School CME course Primary Care Internal Medicine: Principles & Practice.
- 2001 “Update in Pulmonary Medicine.” Developed and presented a lecture on recent developments in pulmonary and critical care medicine for approximately 1000 primary care physicians and nurse practitioners as part of the Harvard Medical School/Massachusetts General Hospital CME Course “Primary Care Internal Medicine: Principles and Practice”.
- 2001 “Asthma 2001.” Developed and presented a lecture on state of the art diagnosis and management of asthma for approximately 1000 primary care physicians as part of the Harvard Medical School/Beth Israel Deaconess CME course “Update in Internal Medicine”.
- 2002 “State of the Art: Pulmonary Hypertension.”
Developed and presented a lecture on state of the art diagnosis and management of pulmonary hypertension for approximately 60 cardiologists and internists in the University of Iowa Carver College of Medicine CME course “Cardiology Update”.

- 2003 “New Developments in Pulmonary Hypertension.” Developed and presented a lecture on current concepts of pathogenesis, diagnosis and management of pulmonary hypertension for approximately 30 cardiologists and nurse-clinicians in the Iowa Heart Center (Des Moines) CME lecture series.
- 2003 “Current Concepts in Pulmonary Hypertension.” Developed and presented a lecture on the pathogenesis, diagnosis and management of pulmonary hypertension for approximately 20 cardiologists, pulmonologists, and nurse-clinicians in the Bryan LGH Medical Center (Lincoln, NE) CME lecture series.
- 2005 “Pulmonary Hypertension - 2005.” Presented a lecture on current concepts of pathogenesis, diagnosis, and treatment of pulmonary hypertension for approximately 110 primary care physicians, physician assistants, and nurse practitioners at the 2005 American College of Physicians Iowa Chapter Scientific Meeting (Iowa City, IA)
- 2007 “Internal Medicine Review Based Upon ABIM SEP Modules.” Developed and delivered an interactive lecture and board review for approximately 100 internists and nurse practitioners at the 2007 American College of Physicians Alaska Chapter 2007 Scientific Meeting (Anchorage, AK)
- 2010 “Chronic Cough.” Delivered a lecture for approximately 500 internists and nurse practitioners at the 2010 PRI-MED Course (San Francisco, CA)
- 2010 “The Other Circulation: New Insights into Pulmonary Vascular Disease.” Developed and delivered a lecture for approximately 100 pulmonologists, internists and nurse practitioners at the 2010 UCSD Update in Pulmonary Medicine Course (San Diego, CA)
- 2013 “Sedation, Paralysis, and early mobilization in ICU.” Developed and delivered a lecture for approximately 110 pulmonologists, internists and nurse practitioners at the 2013 UCSD Update in Pulmonary Medicine Course (San Diego, CA)

- 2015 Panel discussion: Butani L, Plant J, Servis M, **Mandel J**, Mejicano G. “Valuing education – exploring organizational strategies to promote educational efforts and innovation by faculty within and outside the institution.” AAMC WGEA/WGSA/WAAHP/WOSR Regional Meeting (San Diego, CA)

III. SCHOLARSHIP

A. Publications or Creative Works

Peer-reviewed

1. **Mandel J**, Mark EJ. Weekly Clinicopathological Exercises: Case 25-2000: A 69-Year-Old Woman with Pleuritic Pain and Pulmonary Arterial Obstruction. *N Engl J Med*, 343(7):493-500, 2000.
2. **Mandel J**, Mark EJ, Hales CA. State of the Art: Pulmonary Venocclusive Disease. *Am J Respir Crit Care Med*, 162(5):1964-1973, 2000.
3. **Mandel J**, Weinberger SE. Sarcoidosis: Clinical insights and basic mechanisms. *Am J Med Sci*, 321(1):99-107, 2001.
4. Smith CC, **Mandel J**, Bush B. Clinical Problem-Solving. Less is More. *N Engl J Med*, 344(14):1079-1082, 2001.
5. Peterson MW, Rowat J, Kreiter C, **Mandel J**. Medical students’ use of information resources: is a digital age dawning? *Acad Med* 79(1):89-95, 2004.
6. Casele H, **Mandel J**, Williams KC. Arm swelling in pregnancy. *Obstet Gynecol* 106(6):1388-91, 2005.
7. Taichman DB, **Mandel J**. Epidemiology of pulmonary hypertension. *Clin Chest Med* 28(1):1-22, 2007.
8. Distler O, Behrens F, Pittrow D, Huscher D, Denton CP, Foeldvari I, Humbert M, Matucci-Cerinic M, Nash P, Opitz CF, Rubin LJ, Seibold JR, Furst DE; **EPOSS-Omeract Group**. Defining appropriate outcome measures in pulmonary arterial hypertension related to systemic sclerosis: a Delphi consensus study with cluster analysis. *Arthritis Rheum*. 2008 Jun 15;59(6):867-75.
9. Sánchez-Román J, Opitz CF, Kowal-Bielecka O, García-Hernández FJ, Castillo-Palma MJ, Pittrow D; **EPOSS-OMERACT Group**. Screening for PAH in patients with systemic sclerosis: focus on Doppler echocardiography. *Rheumatology (Oxford)*. 2008 Oct;47 Suppl 5:v33-5.

10. Simonds J, Miller F, **Mandel J**, Davidson TM. The effect of bevacizumab (Avastin) treatment on epistaxis in hereditary hemorrhagic telangiectasia. *Laryngoscope*. 2009 May;119(5):988-92.
11. Hekier E, **Mandel J**. A 22 Year-Old Woman with Unexplained Dyspnea (An Interactive Physiologic Review of Pulmonary Hypertension). *Chest* 2009 Sep;136(3):867-76.
12. Firth AL, **Mandel J**, Yuan JX. Idiopathic pulmonary arterial hypertension. *Dis Model Mech* 2010 May-Jun;3(5-6):268-73.
13. Abbott RA, Hui KK, Hays RD, **Mandel J**, Goldstein M, Winegarden B, Glaser D, Brunton L. Medical student attitudes toward complementary, alternative and integrative medicine. *Evidence-Based Complementary and Alternative Medicine*, advanced access doi:10.1093/ecam/nep195. (Published 20 January, 2011).
14. Jamshidi N, Miller FJ, **Mandel J**, Evans T, Kuo MD. Individualized therapy of HHT driven by network analysis of metabolomic profiles. *BMC Systems Biol* 2011; 5:200.
15. Magana MM, **Mandel J**. Pulmonary hypertension. *Hosp Med Clin* 2012, 1(2):e161-e174.
16. **Mandel J**, Poch, D. In the clinic. Pulmonary hypertension. *Ann Intern Med* 2013; 158(9), ITC5-1-16.
17. Taichman DB, **Mandel J**. Epidemiology of pulmonary arterial hypertension. *Clin Chest Med* 2013; 34(4):619-37.
18. Lerner AD, **Mandel J**. A cagey diagnosis. *Ann Am Thoracic Soc* 2014; 11(6), 986-9.
19. Reid CM, Kim DY, **Mandel J**, Smith A, Talamini MA, Bansal, V. Impact of a third-year surgical apprenticeship model: perceptions and attitudes compared with the traditional medical student clerkship experience. *J Am Coll Surg* 2014 218(5), 1032-37.
20. Reid CM, Kim DY, **Mandel J**, Smith A, Bansal, V. Correlating surgical clerkship evaluations with performance on the National Board of Medical Examiners examination. *J Surg Res* 2014; 190(1), 29-35.
21. McDuff SG, McDuff D, Farace, JA, Kelly CJ, Savoia MC, **Mandel, J**. Evaluating a grading change at UCSD School of Medicine: pass/fail grading is associated with decreased performance on preclinical exams but unchanged performance on USMLE step 1 scores. *BMC Medical Education* 2014; 14:127.

22. Papamatheakis DG, Mocumbi AOH, Kim NH, **Mandel J**. Schistosomiasis-associated pulmonary hypertension. *Pulm Circ* 2014; 4(4):596-611.
23. Crouch DR, **Mandel J**. Asthma with brain lesions. *Ann Am Thorac Soc*. 2015 Feb;12(2):279-82.
24. **Mandel J**. Update in pulmonary medicine: evidence published in 2014. *Ann Intern Med*. 2015 May 5;162(9):W117-21.
25. Auger WR, **Mandel J**, Pepke-Zaba J. Chronic Thromboembolic Pulmonary Hypertension. The Journey from a Curiosity to a Cure. *Ann Am Thorac Soc*. 2016 Jul;13 Suppl 3:S197-200.
26. Brandl K, **Mandel J**, Winegarden, B. Student evaluation team focus groups increase students' satisfaction with the overall course evaluation process. *Med Educ*. 2017 Feb;51(2):215-227.
27. **Mandel J**. Giants in Chest Medicine: Steven E. Weinberger, M.D., FCCP. *Chest*. 2017 Aug;152(2):239-241.
28. Brandl K, Schneid SD, Smith S, Winegarden B. **Mandel J**, Kelly CJ. Small group activities within academic communities improve the connectedness of students and faculty. *Med Teach*. 2017 Aug;39(8):813-819.
29. Schneid SD, Apperson A, Laiken N, **Mandel J**, Kelly CJ, Brandl K. A summer prematriculation program to help students succeed in medical school. *Adv Health Sci Educ Theory Pract*. 2018 Jan 16. [Epub ahead of print]
30. Brandl K, Rabadia SV, Chang A, **Mandel J**. Benefit of focus group discussion beyond online survey in course evaluations by medical students in the United States: A qualitative study. *J Educ Eval Health Prof*. 2018;15:25.
31. Rubanovich CK, Cheung C, **Mandel J**, Bloss C. Physician preparedness for big genomic data: a review of genomic medicine education initiatives in the United States. *Hum Mol Genet*. 2018 Aug 1;27(R2):R250-R258.
32. Brandl K, **Mandel J**, Kelly CJ. Dean's Perspective on Academic Communities at UC San Diego, School of Medicine. *J Med Educ Curric Dev*. 2019 May 23;6:2382120519848048.
33. Fan KG, **Mandel J**, Agnihotri P, Tai-Seale M. Remote Patient Monitoring Technologies for Predicting Chronic Obstructive Pulmonary Disease

Exacerbations: Review and Comparison. *JMIR Mhealth Uhealth*. 2020 May 21;8(5):e16147.

34. Wilson KC, Kaminsky DA, Michaud G, Sharma S, Nici L, Folz RJ, Barjaktarevic I, Bhakta NR, Cheng G, Chupp GL, Cole A, Dixon AE, Finigan JH, Graham B, Hallstrand TS, Haynes J, Hankinson J, MacIntyre N, **Mandel J**, McCarthy K, McCormack M, Patil SP, Rosenfeld M, Senitko M, Sethi S, Swenson ER, Stanojevic S, Teodorescu M, Weiner DJ, Wiener RS, Powell CA. Restoring Pulmonary and Sleep Services as the COVID-19 Pandemic Lessons. From an Association of Pulmonary, Critical Care, and Sleep Division Directors and American Thoracic Society-coordinated Task Force. *Ann Am Thorac Soc*. 2020 Nov;17(11):1343-1351. doi: 10.1513/AnnalsATS.202005-514ST. PMID: 32663071; PMCID: PMC7640724.
35. **Mandel J**. Career Development Strategies for the Clinical Educator. *ATS Scholar* 2020; 1(2):101-109.
36. Ramnath VR, Hill L, Schultz J, **Mandel J**, Smith A, Morris T, Holberg S, Horton LE, Malhotra A, Friedman LS. An In-Person and Telemedicine “Hybrid” System to Improve Cross-Border Critical Care in COVID-19. *Annals of Global Health*. 2021; 87(1): 1, 1–12.

Books:

1. **Mandel J**, Taichman D. *Pulmonary Vascular Disease*. Philadelphia: Mosby/Elsevier, 2006. (ISBN-13: 978-1-4160-2246-6; ISBN-10: 1-4160-2246-5)
2. Weinberger SE, Cockrill B, **Mandel J**. *Principles of Pulmonary Medicine (5th ed)*. Philadelphia: W.B. Saunders//Elsevier, 2008. (ISBN-13: 978-1-4160-5034-6)
3. Weinberger SE, Cockrill B, **Mandel J**. *Principles of Pulmonary Medicine (6th ed)*. Philadelphia: W.B. Saunders//Elsevier, 2013. (ISBN-13: 978-1-4160-5034-6)
4. Weinberger SE, Cockrill B, **Mandel J**. *Principles of Pulmonary Medicine (7th ed)*. Philadelphia: W.B. Saunders//Elsevier, 2018. (ISBN-13: 978-1-4160-5034-6)

Chapters:

1. **Mandel J**, Weinberger SE. Pulmonary Disease in Pregnancy. In: Burrow GN, Duffy TP (eds), *Medical Complications During Pregnancy, 6th edition*. Philadelphia: W.B. Saunders/Elsevier, 2004. (ISBN: 0721604358)

2. **Mandel J.** Pulmonary Veno-Occlusive Disease. In: Creager MA, Loscalzo J (eds), *Vascular Medicine, A Companion to Braunwald's Heart Disease, 3rd ed.* Philadelphia: W.B. Saunders/Elsevier, 2006. (ISBN: 0721602843)
3. Landsberg J, **Mandel J.** Pulmonary Arterial Hypertension due to Other Causes. In: Yuan XJ, Garcia JN, Hales CA, Rich S, Archer SL, West JB (eds), *Textbook of Pulmonary Vascular Disease*, New York: Springer, 2011. (ISBN 978-0-387-87428-9)
4. **Mandel J,** Taichman DB. Epidemiology of Pulmonary Hypertension. In: Yuan XJ, Garcia JN, Hales CA, Rich S, Archer SL, West JB (eds), *Textbook of Pulmonary Vascular Disease*, New York: Springer, 2011. (ISBN 978-0-387-87428-9)
5. **Mandel J.** Pulmonary Veno-Occlusive Disease. In: Yuan XJ, Garcia JN, Hales CA, Rich S, Archer SL, West JB (eds), *Textbook of Pulmonary Vascular Disease*, New York: Springer, 2011. (ISBN 978-0-387-87428-9)
6. Magana MM, **Mandel J.** Pulmonary Manifestations of Sickle Cell Disease. In: Bordow RA, Ries AL, Morris TA (eds), *Manual of Clinical Problems in Pulmonary Medicine, 7th edition*, New York: Lippincott Williams & Wilkins, 2014.
7. Poch D, **Mandel J.** Pulmonary Hypertension: Diagnosis and Treatment. In: Bordow RA, Ries AL, Morris TA (eds), *Manual of Clinical Problems in Pulmonary Medicine, 7th edition*, New York: Lippincott Williams & Wilkins, 2014.
8. Lerner AD, **Mandel J.** Pulmonary Venous Hypertension. In: Lanzer P (ed), *PanVascular Medicine, 2nd ed*, New York: Springer, 2015
9. Taichman DB, **Mandel J,** Smith KA, Yuan JXJ. Pulmonary Arterial Hypertension. In: Grippi M, Elias J, Fishman J, Pak A, Senior R, Kotloff R (eds), *Fishman's Pulmonary Diseases and Disorders, 5th edition*, New York: McGraw-Hill Professional, 2015.
10. Bergard SC, **Mandel J.** Pulmonary Embolism. In: Vasan RS, Sawyer DB (eds), *Encyclopedia of Cardiovascular Research and Medicine*, Philadelphia: Elsevier, 2018.

Editorials

1. **Mandel J.** COUNTERPOINT: Should the United States Provide Postgraduate Training to International Medical Graduates? No. *Chest*. 2016 Apr;149(4):895-7.
2. Brandl K, Mandel J. What else is happening? A more holistic view of programme evaluation. *Med Educ*. 2018 Apr;52(4):352-354.

Electronic publications:

1. **Mandel J.** The Physician-Administrator. In: Wang A, editor. Career Talk [book on CD-ROM]. New York: American Thoracic Society, 2011.
2. Shaw KD, **Mandel J.** Pulmonary Function Tests. In: Wiese J (ed), *Clinical Decision Support: Hospital Medicine*, 2012
3. Sell R, **Mandel J.** Troubleshooting the Ventilator. In: Wiese J (ed), *Clinical Decision Support: Hospital Medicine*, 2012
4. **Mandel J**, Schellenberg J, Hales CA. Smoke inhalation. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
5. **Mandel J**, Gaasch WH. Anticoagulation in pregnancy. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
6. **Mandel J**, Weinberger SE. Overview of nonsmall cell lung cancer staging. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
7. Drislane FW, **Mandel J.** Neurogenic pulmonary edema In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
8. Rose BD, **Mandel J.** Osmolal gap calculator. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2018.
9. Rose BD, **Mandel J.** Treatment of severe hypovolemia and hypovolemic shock. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2018.
10. Rose BD, **Mandel J.** Pathophysiology of irreversible shock. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
11. Schmid GA, **Mandel J.** Management of septic shock and severe sep[is]is in adults. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
12. **Mandel J**, Weinberger SE. Screening for lung cancer In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
13. Trulock EP, **Mandel J.** Immunosuppression following lung transplantation. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2016.
14. **Mandel, J**, Stark, PS. Differential diagnosis and evaluation of multiple pulmonary nodules. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2018.
15. **Mandel J**, Clardy P. Pulmonary Veno-occlusive Disease. In: UpToDate, Basow, DS (Ed), UpToDate, Waltham, MA, 2018.
16. Bates DI, **Mandel J.** Pulmonary Function Testing. In: Miller C, Burger A, Pahwa A, Lai C. *Clinical Decision Support: Hospital Medicine*,

2nd Edition. 2016.

Abstracts:

1. Levy BD, Schneider EC, **Mandel J**, Cleary PD, Zaslavsky A, Weiss KB, Epstein A. Expanding and standardizing asthma quality measures: The Q-span initiative in collaboration with NCQA. Presented at the American Thoracic Society 95th International Conference, San Diego, CA, 1999.
2. Basaviah P, Fazio S, Aronson M, Hatem C, Bates C, and the AOC Working Group. Areas of Concentration: Curricular vehicles for the senior year of medical residency. Presented at the 23rd Annual Meeting of the Society of General Internal Medicine, Boston, MA, 2000.
3. **Mandel J**, Ephgrave KS, Phye J. Sustained effect of a multidimensional curriculum revision on knowledge acquisition. Presented at the Annual Meeting of the Association of American Medical Colleges Central Group on Educational Affairs, Kansas City, MO, 2006.
4. Ephgrave KS, Henricks D, Ferguson K, Lantz J, **Mandel J**, Moorhead WSJ, Panther JA, Solow CS. A group process producing individualized medical student performance evaluations (MSPE). Presented at the Association of American Medical Colleges Group on Student Affairs, Philadelphia, PA 2006.
5. Schneid S, Kingston PA, Apperson A, Armour C, **Mandel J**, Laiken N. Development of a Shared, Integrated Assessment Bank for an Interprofessional Health Sciences Curriculum. Presented at the Western Group on Educational Affairs, Association of American Medical Colleges, Asilomar, CA 2010.
6. Case Report: An Unusual Cause of Chronic Cough. Elmaraachli W, **Mandel J**. Presented at the American Thoracic Society International Conference, San Francisco, CA, 2012.
7. Impact of a Third Year Surgical Apprenticeship: Perceptions and Attitudes Compared to the Traditional Clerkship Experience. Reid, C., Kim, D.Y., **Mandel, J.**, Smith, A., Coimbra R., Talamini, M.T., Bansal, V. Presented at the American College of Surgery International Conference, Washington, DC, 2013.
8. Prevalence of VQ Scan Utilization and Medical Therapy Trial in Chronic Thromboembolic Pulmonary Hypertension: UCSD Referral Center Experience. Poch D, Kerr K, Auger W, Fedullo P, **Mandel J**, Madani M, Kim NH. Presented at the Fifth World Symposium on Pulmonary Hypertension, Nice, France, 2013.

9. PAH with *in situ* Thrombosis Mimicking Chronic Thromboembolic Pulmonary Hypertension. Taype CA, Papamatheakis DG, Poch D, **Mandel J**, Kerr KM, Auger WR, Fedullo PF, Pretorius V, Jamieson SW, Madani MM, Kim NH. Presented at the Fifth World Symposium on Pulmonary Hypertension, Nice, France, 2013.
10. Toward Creating a Culture of Evaluation: Student Evaluation Teams as an Adjunct to Online Evaluation Methods. Winegarden BW, Laiken N, Carroll K, **Mandel J**. Presented at the AAMC WGEA 2014 Meeting, Honolulu, HI.
11. Reid C, **Mandel J**, Smith A, Bansal V. “Correlating surgical clerkship evaluations with performance on the NBME exam.” Presented at the AAMC WGEA/WGSA/WOSR/ WAAHP 2015 Meeting, San Diego, CA.
12. Brandl K, **Mandel J**, Winegarden B. “The introduction of a Student Evaluation Team increase students’ satisfaction with the evaluation process.” Presented at the AAMC WGEA 2016 Meeting, Tucson, AZ.
13. Schneid S, Apperson A, Laiken N, **Mandel J**, Kelly C, Brandl K. “A summer prematriculation program to help students succeed in medical school.” Presented at the AAMC WGEA 2018 Meeting, Denver, CO.
14. Schneid S, Armour C, **Mandel J**, Brandl K. “‘Teaching load:’ implications for horizontal and vertical integration in medical education.” Presented at the AAMC WGEA 2018 Meeting, Denver, CO.
15. Schneid S, Armour C, **Mandel J**, Brandl K. “Course Director Perspectives: The Effects of Using Guest Lectureres on Teaching Consistency, Integration, and Student Engagement.” Presented at the AAMC 2018 Meeting, Austin, TX.

B. Areas of Research Interest and Current Projects
Pulmonary vascular disease, medical education.

C. Grants Received as Principal Investigator

Title: (source in parentheses)	Amount	Period	% Effort	% Salary
Diversity Against Disparity Initiative (Horace W. Goldsmith Foundation)	\$75,000	2001-2002	10%	10%
Ambrisentan in PAH – A Phase III, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Efficacy Study of Ambrisentan in Subjects with Pulmonary Arterial Hypertension [AMB-320] (Myogen)	\$56,050	2004-2006	1%	1%
A Long-Term Study of Ambrisentan in Pulmonary Arterial Hypertension Subjects Having Completed AMB-320 or AMB-321 [AMB320/321] (Myogen)	\$156,300	2004-2007	1%	1%
A Phase 2, Open-Label, Multicenter Study Evaluating Ambrisentan in Subjects with Pulmonary Arterial Hypertension Who Have Previously Discontinued Endothelin Receptor Antagonist Due to Serum Aminotransferase Abnormalities [AMB-222] (Myogen)	\$41,835	2005-2009	1%	1%
Pulmonary Arterial Hypertension Quality Enhancement Research Initiative (PAH QuERI) [CHRC 015] (Actelion)	\$9,600	2005-2010	1%	0%
A Multi-centre, Multinational, Long-Term, Open-Label Extension Study to Assess the Safety of Subject Optimised Treatment Regimens of Oral Sildenafil When Used in Combination with Intravenous Prostacyclin (epoprostenol) for Pulmonary Arterial Hypertension in Subjects Who Have Completed Study A1481141 [A1481153] (Pfizer)	\$10,950	2005-2009	1%	0%
A Multinational, Multicentre, Double-blind, Placebo-Controlled, Parallel Group Study to Assess the Safety and Efficacy of a Subject Optimised Treatment Dose of Oral Sildenafil (20, 40, or 80 mg TID) When Used in Combination with Intravenous Prostacyclin (epoprostenol) for Pulmonary Arterial Hypertension [A1481141] (Pfizer)	\$117,750	2005-2009	1%	1%

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A Randomized, Double-blind, Placebo-Controlled Study in Adults with Abnormal Pulmonary Arterial Pressure and Idiopathic Pulmonary Fibrosis (CoTherix)	\$136,413	2006-2008	1%	1%
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A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of the Addition of Inhaled Iloprost in Patients with Pulmonary Arterial Hypertension Receiving Oral Sildenafil [VISION II; C200-006] (CoTherix)	\$109,130	2006-2008	1%	1%
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D. Grants Received as Co-Investigator

The Universidade Eduardo Mondlane/UCSD Medical Education Partnership (NIH 1R24TW008908-01)	\$8,184,000	2010-2015	4%	4%
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The University Eduardo Mondlane/UCSD Health-Professional Education Partnership Initiative NIH R25TW011216-01)	\$648,721	2018-2023	3%	3%
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E. Invited Lectures

Conference presentations:

- 2000 “Clinical Decision Support and the Genesis of UpToDate in Medicine.” Developed and presented a lecture on the clinical information needs of academic and practicing physicians and the development of UpToDate as a means of meeting them. (Involved approximately 100 physicians and medical informaticians.) World Congress of High-Tech Medicine (Hanover, Germany)
- 2000 Grand Rounds: “Pulmonary Hypertension: Approach and Management.” Developed and presented a lecture on the classification, pathophysiology, and treatment of pulmonary hypertension. (Involved approximately 30 attending physicians) Hale Hospital, Haverhill, MA
- 2000 “Primary Pulmonary Hypertension” Developed and presented lecture on the pathophysiology, diagnosis, and treatment of primary pulmonary hypertension. (Involved approximately 20 physicians) Metrowest Medical Center

- 2001 Grand Rounds: “New Developments in Pulmonary Medicine” Developed and presented a lecture on recent developments in pulmonary and critical care medicine. (Involved approximately 30 attending physicians.) Landmark Medical Center, Woonsocket, RI
- 2003 “Suffering and Service.” Keynote Address, Alpha Omega Alpha Annual Dinner. (Involved approximately 15 attending physicians and 20 medical students.) University of Iowa Carver College of Medicine.
- 2004 “Humanism and Healing.” Keynote Address, Humanism in Medicine Student Clinician Ceremony. (Involved approximately 175 medical and physician assistant students, and 25 faculty members.) University of Iowa Carver College of Medicine.
- 2005 “The Journals and the Classics.” Medical School Commencement Address. (Involved approximately 2100 graduates or attendees.) University of Iowa Carver College of Medicine.
- 2006 “New challenges and trends in medical education.” Keynote Address, Iowa Radiology Society Annual Meeting, Iowa City, IA.
- 2006 “Lessons Patients Teach Us” Medical School Commencement Address. University of Iowa Carver College of Medicine.
- 2008 “New Directions in Curriculum and Telemedicine at the University of California, San Diego.” Presented at the People’s Medical Publishing House / China Medical Academy Symposium on Medical Education. Beijing, China.
- 2009 “Pulmonary Hypertension: State of the Art Approaches to Diagnosis and Treatment.” Presented in Honolulu, HI as part of the Pulmonary Hypertension Association's 30-City Medical Educational Program.
- 2011 Grand rounds: “Pulmonary Hypertension: Current Approaches and Treatments.” Developed and presented a lecture on the classification, pathophysiology, and treatment of pulmonary hypertension. (Involved approximately 45 attending physicians and 10 residents.) Moses Cone Medical Center, Greensboro, NC.
- 2011 “The UCSD Integrated Scientific Curriculum - A Case-Study of Curriculum Change.” Presented at the 7th Sino-U.S. Conference on Medicine in the 21st Century, Salk Institute, La Jolla, CA.
- 2012 “Nathan Sidel Lecture: The Art of Medicine and the Paradox of Progress.” Developed and presented lecture on the traditional missions of medicine,

and their diminution since the late 20th century. Involved approximately 60 attending physicians, 120 house officers, and 25 medical students. Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA.

- 2012 “Navigating Change: From Optimal Design to Maximal Success.” Developed and presented lecture on development and key features of UCSD’s new Integrated Scientific Curriculum. Involved approximately 25 faculty members. The Academy, Harvard Medical School, Boston, MA.
- 2012 “Navigating Change: From Optimal Design to Maximal Success.” Developed and presented lecture on development and key features of UCSD’s new Integrated Scientific Curriculum. Involved approximately 20 faculty members and 10 staff members. Beth Israel Deaconess Medical Center Academy of Medical Educators, Harvard Medical School, Boston, MA.
- 2013 “Residency 101.” Developed and presented lecture on the mechanics and options for residency training. Involved approximately 100 underrepresented in medicine minority premedical students. UCSD Medical Education for Diverse Students Conference, La Jolla, CA.
- 2014 Impact of Medications and Mechanical Ventilation on Sleep in the ICU. 10th International Pan Arab Critical Care Medicine Congress, 2014, Cairo, Egypt
- 2014 Maneuvers to Facilitate Sleep in the ICU. 10th International Pan Arab Critical Care Medicine Congress, 2014, Cairo, Egypt
- 2014 Hepatopulmonary Syndrome. 10th International Pan Arab Critical Care Medicine Congress, 2014, Cairo, Egypt
- 2014 Pulmonary Hypertension: What’s New? 10th International Pan Arab Critical Care Medicine Congress, 2014, Cairo, Egypt
- 2015 “Navigating Change: From Optimal Design to Maximal Success.” Developed and presented lecture on development and key features of UCSD’s new Integrated Scientific Curriculum. Involved approximately 50 faculty members and staff members. University California, Irvine
- 2015 Anticoagulation in Pregnancy. 9th Pulmonary Vascular Research Institute Annual General Meeting and 8th Scientific Workshops and Debates, Guangzhou, China
- 2015 “Navigating Change: From Optimal Design to Maximal Success.” Developed and presented lecture on development and key features of UCSD’s new Integrated Scientific Curriculum. Involved approximately 75

faculty members and 15 staff members. University of British Columbia, Vancouver, Canada

- 2016 “The Last Lecture.” Selected by the UCSD School of Medicine Class of 2016 to develop and deliver the final lecture to the class prior to their graduation.
- 2017 “The Last Lecture.” Selected by the UCSD School of Medicine Class of 2017 to develop and deliver the final lecture to the class prior to their graduation.
- 2017 “Life After Medical School.” Developed and presented lecture on the different GME and professional paths available to medical school graduates. Involved approximately 100 underrepresented in medicine minority premedical students. UCSD Medical Education for Diverse Students
- 2017 “Creating and Managing Change in Complex Environments.” Developed and presented lecture on the theory and practice of change management in academic medical environments. Involved approximately 35 faculty members and 15 fellows. University of Pittsburgh Department of Pulmonary and Critical Care Medicine, Pittsburgh, PA
- 2018 “Critical Care: Past, Present, and Future.” Developed and presented lecture on the basis of current critical care practices and likely future directions. Involved approximately 75 faculty members and 40 trainees. Department of Medicine Grand Rounds, Massachusetts General Hospital, Boston, MA
- 2020 “The Impact of COVID-19 in California’s Border Region.” Delivered testimony to the California Senate on efforts that I led to assist hospitals and physicians in Tijuana and Mexicali to care for critically ill patients with COVID-19 and acute hypoxemic respiratory failure.
- 2020 “ATS 2020 Presidential Symposium: What Does the Future Hold for Exchanging Medical Information?” Developed and presented lecture on the future of medical education and point of care information retrieval. Delivered at ATS Virtual International Conference.

F. Other

- 2006-2010 Member, Data Safety Monitoring Board for the NIH-sponsored Clinical Trial of Aspirin and Simvastatin in Pulmonary Arterial Hypertension (ASA-STAT)

- 2008 Faculty Fellow, Liaison Committee on Medical Education
- 2011-2014 Judge, *Annals of Internal Medicine* Young Investigator Awards
- 2011 Co-Developer, American Board of Internal Medicine COPD Practice Improvement Module
- 2014 Co-Director, Joint Harvard Medical School/UCSD Principles of Medical Education course, San Diego, CA

IV. SERVICE

A. Offices Held in Professional Organizations

Editorships/Editorial Board Memberships:

- 1997-2004 Associate Editor, *UpToDate*
- 1999-2001 Deputy Editor, Pulmonary and Critical Care Medicine, *UpToDate*
- 2004-Present Section Editor, Pulmonary Vascular Disease, *UpToDate*
- 2008- Present Editorial Board, American College of Chest Physicians Pulmonary Medicine SEEK
- 2010-Present Editorial Board, *Pulmonary Circulation*
- 2013-2015 Section Co-Editor of “The Expert Clinician,” *Annals of the American Thoracic Society*
- 2015-Present Editorial Board, *Annals of the American Thoracic Society*
- 2016 Co- editor of *Annals of the American Thoracic Society* Volume 13, Supplement 3: “Chronic Thromboembolic Pulmonary Hypertension.”
- 2019-Present Editorial Board, *Chest*

Review panels:

- 2001-Present Reviewer, *American Journal of Respiratory and Critical Care Medicine*
- 2001-Present Reviewer, *Respiratory Care*
- 2002-Present Review Panelist, Educational section, American Thoracic Society website (<http://www.thoracic.org>)
- 2004-Present Reviewer, *American Journal of Cardiology*
- 2004-Present Reviewer, *Journal of General Internal Medicine*
- 2008-Present Reviewer, *Medicine*

2009-Present Reviewer, *Mayo Clinic Proceedings*
2013-Present Reviewer, *Chest*
2017-Present Reviewer, *PLoS One*
2017-Present Reviewer, *BMC Pulmonary Medicine*
2018-Present Reviewer, *Annals of Internal Medicine*
2019-Present Editorial Board, *Chest*

Departmental, collegiate, or university committees:

Harvard Medical School:

1998-2001 Resident as Teacher Curriculum Development Committee
1999-2001 Admissions Committee

Beth Israel Deaconess Medical Center:

1994-1996 Asthma Interdisciplinary Practice Guideline Development Committee
1995-1996 Chest Pain Interdisciplinary Practice Guideline Development Committee
1995-1996 DVT/PE Interdisciplinary Practice Guideline Development Committee
1995-1996 Pharmacy and Therapeutics Committee
1995-1996 Resuscitation Committee
1995-1996 Department of Medicine Clinical Competency Committee
1995-1996 Department of Medicine Internship Selection Committee
1995-1996 Department of Medicine Patient Care Committee
1995-1996 Department of Medicine Quality Assurance Committee
1998-2001 Department of Medicine Pharmacy Cost Committee
1998-2001 Department of Medicine Clinical Competency Committee
1998-2001 Department of Medicine Internship Selection Committee
1998-2001 Department of Medicine Patient Care Committee
1998-2001 Department of Medicine Quality Assurance Committee
1999-2001 Graduate Medical Education Committee

University of Iowa Roy J. and Lucille A. Carver College of Medicine:

2001-2006 Curriculum Committee

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2001-2006 Medical Education Committee
2002-2006 Faculty Executive Committee
2002-2004 Chair, Committee on Computer-Based Evaluation
2003-2006 Chair, Curriculum Committee
2002-2003 Chair, Associate Director of Curriculum Search Committee
2002-2003 Chair, College of Medicine Counseling Center Psychologist Search Committee
2003 Chair, College of Medicine AAMC/Alpha Omega Alpha Award Nominating Committee
2003 Lakshmi Durairaj, M.D. Faculty Recruitment Committee
2003 Randall Rupper, M.D. Faculty Recruitment Committee
2003 Barry Cabuay, M.D. Faculty Recruitment Committee
2003 Chair, Gross Anatomy Strategic Planning Committee
2004-2006 Chair, Educational Technology Strategic Planning Committee
2005-2006 Chair, CME Conflict of Interest Resolution Committee
2005-2006 Geriatrics Division Chief Search Committee
2005-2006 Vice-President, Alpha Omega Alpha Iowa Chapter

University of Iowa:

2002-2006 Academic Technologies Advisory Committee
2003 Hancher-Finkbine Awards Committee
2003-2006 Hardin Library Advisory Committee
2004-2006 Disabilities Accommodations Advisory Group

University of California, San Diego:

2009-present Office for Students with Disabilities Advisory Board

University of California, San Diego School of Medicine

2006-2017 Committee on Educational Policy
2006-2017 Core Curriculum Committee
2006-2017 Electives Committee
2006-2017 Standings and Promotions Committee
2006-2017 Student Affairs Committee
2010-present Pulmonary Division Fellowship Selection Committee

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- 2010-present Pulmonary Division Fellowship Education Committee
- 2017-present School of Medicine Committee on Academic Personnel (Vice-Chair 2019-pres)
- 2018-present UCSD Medical Center Patient Advocacy Reporting System Committee

Relevant community involvement

- 2001-2006 Lecturer/Counselor, Iowa City Area Pulmonary Hypertension Support Group
- 2003-2006 Congregation Agudas Achim Education Committee, Iowa City, IA

Other:

- 1991-Present American College of Physicians, Member
- 1991-1998 American Medical Association, Member
- 1991- 2001 Massachusetts Medical Society, Member
- 1994- Present American Thoracic Society, Member
- 1996- Present Society of Critical Care Medicine, Member
- 1998- 2001 Association of Program Directors in Internal Medicine, Member
- 1999- 2009 American Thoracic Society, National Education Committee Member
- 2001- 2006 Iowa Thoracic Society, Member
- 2002- 2003 American Thoracic Society, Chair, Educational Innovations Appropriations Subcommittee
- 2005- Present Fellow, American College of Physicians
- 2006- 2007 American College of Physicians, 2007 Scientific Program Committee
- 2005- 2009 Co-Chair, American Thoracic Society/American Board of Internal Medicine Practice Improvement Module Development Subcommittee
- 2006- Present California Thoracic Society, Member
- 2008- 2009 American College of Physicians, 2009 Scientific Program Committee
- 2008-2009 International Dyspnea Symposium Advisory Committee
- 2009-2015 American Thoracic Society Program Review Subcommittee (Chair 2012-2015)
- 2009-2013 American College of Physicians Education and Publication Committee

2010- 2011	American College of Physicians, 2011 Scientific Program Committee
2012-2014	American College of Chest Physicians Pulmonary Arterial Hypertension Evidence-Based Clinical Practice Guidelines Development Committee
2013-2019	Board of Directors, American Thoracic Society
2013-2014	American Thoracic Society Planning and Evaluation Committee (Vice Chair)
2015-2017	American Thoracic Society International Conference Committee (Vice-Chair and Chair Elect)
2015-Present	Pharmacology and Biochemistry Subcommittee, National Board of Medical Examiners
2016	American Thoracic Society Section of Medical Education Nominating Committee
2017-2019	Chair, American Thoracic Society International Conference Committee
2017-2019	Awards Committee, American Thoracic Society
2017-2019	Finance Committee, American Thoracic Society
2018-Present	Fellow, American Thoracic Society

B. Clinical assignments

Inpatient:

1998-2001	Attending Physician, General Medicine Service, Beth Israel Deaconess Medical Center
1998-2001	Attending Physician, Pulmonary Consultation Service, Beth Israel Deaconess Medical Center
1998-2001	Attending Physician, Medical Intensive Care Unit, Beth Israel Deaconess Medical Center
2001-2006	Attending Physician, Pulmonary ICU/Consultation/CF Service, University of Iowa Hospitals and Clinics
2001-2006	Attending Physician, Medical Intensive Care Unit,

	University of Iowa Hospitals and Clinics
2005-2006	Attending Physician, Medical Intensive Care Unit and Inpatient Medical Service, Iowa City Veterans Administration Medical Center
2006-2008	Attending Physician, Pulmonary Consultation Service, UCSD Medical Center
2006-Present	Attending Physician, Medical Intensive Care Unit, UCSD Jacobs Medical Center
2006-Present	Attending Physician, Medical Intensive Care Unit, UCSD Hillcrest Hospital

Outpatient

1998-2001	Attending Physician, Pulmonary Ambulatory Practice, Beth Israel Deaconess Medical Center
2000-2001	Director, Pulmonary Hypertension Unit, Beth Israel Deaconess Medical Center
2001-2006	Attending Physician, Pulmonary Ambulatory Clinic, University of Iowa Hospitals and Clinics
2001 – 2006	Attending Physician, Pulmonary Hypertension Center, UI Heartcare, University of Iowa Hospitals and Clinics
2006-Present	Attending Physician, Pulmonary Fellows Clinic, UCSD Medical Center
2006-Present	Attending Physician, Pulmonary Hypertension/Hereditary Hemorrhagic Telangiectasia Clinic, UCSD Medical Center