

## **CURRICULUM VITAE**

**STEVEN D. NATHAN, M.D.**

**Updated 07/23/2018**

### **PERSONAL INFORMATION:**

#### **BUSINESS ADDRESS:**

Inova Heart and Vascular Institute  
Inova Fairfax Medical Campus  
3300 Gallows Road  
Falls Church, VA 22042-3300  
Tel: (703) 776-3610  
Fax: (703) 776-3515  
[steven.nathan@inova.org](mailto:steven.nathan@inova.org)

#### **DATE OF BIRTH:**

April 28, 1958

#### **PLACE OF BIRTH:**

Port Elizabeth, South Africa

#### **MARITAL STATUS**

Married – 2 children

#### **VISA STATUS**

US Citizen

#### **LICENSURE:**

1994-active  
1988-1994  
Virginia (0101050649)  
California (A044888)

### **OTHER CERTIFICATION:**

1984  
1983

FMGEMS  
Certificate of full registration as Medical Practitioner of General Medical Council, London, U.K.

### **BOARD CERTIFICATION:**

2011  
2010  
2000  
1991  
1990  
1988

Recertified in Critical Care Medicine  
Recertified in Pulmonary Diseases  
Recertified in Pulmonary Diseases and Critical Care Medicine  
American Board of Critical Care Medicine  
American Board of Pulmonary Diseases  
American Board of Internal Medicine

### **EDUCATION:**

1976-1981  
1971-1975

M.B.B.cH University of the Witwatersrand Medical School, Johannesburg, South Africa  
Matriculation, Parktown Boys High School, Johannesburg, South Africa.

Distinctions in Mathematics, Science and Latin.

**POSTGRADUATE EDUCATION:**

1991-1992	Fellow, Lung Transplantation, Cedars-Sinai Medical Center, Los Angeles, CA.
1988-1991	Fellow, Pulmonary Medicine and Critical Care, Cedars-Sinai Medical Center, Los Angeles, CA.
1985-1988	Internal Medicine Residency, Long Island Jewish Hospital, New York City, NY
1983-1985	South African Defense Force, Medical Corps
1982	Internship - six months Internal Medicine - Six months General Surgery - Johannesburg Hospital, South Africa.

**PROFESSIONAL APPOINTMENT:**

May 2018-	Medical Director, Pulmonary Service Line, Inova Fairfax Hospital
July 2011-	Professor of Medicine, Virginia Commonwealth University
May 2008-June 2011	Associate Professor of Medicine, Virginia Commonwealth University
September 2007-	Co-Director, NIH-Inova Advanced Lung Disease Program
January 2006-	Affiliate Professor of Biomedical Sciences
November 2004-May 06	George Mason University
September 2004-	Interim Medical Director, Heart Transplant Program
January 1998	Medical Director, Advanced Lung Disease Program
March 1997	Inova Fairfax Hospital
September 1996	Director of Thoracic Immunology
April 1994-August 96	Inova Fairfax Hospital
April 1994-August 96	Clinical Assistant Professor
Sep 1994-August 96	Georgetown University Medical Center
July 1992-March 94	Medical Director
July 1992-March 94	Lung Transplantation/Heart-lung transplantation
	Inova Fairfax Hospital
	Falls Church, VA
	Medical Director
	Lung Transplantation
	McGuire VA Medical Center
	Richmond, VA
	Staff Physician
	Pulmonary Medicine/Internal medicine
	McGuire VA Medical Center
	Richmond, VA
	Assistant Professor, Department of Medicine
	Medical College of Virginia
	Richmond, VA
	Associate Medical Director
	Lung Transplantation
	Cedars-Sinai Medical Center
	Staff Physician

## HONORS AND AWARDS:

Winner of the Outstanding Clinician of the Year. December 2010 Metropolitan DC Thoracic Society

Winner of the Alfred Soffer Research award for presentation at CHEST 2009: High Resolution Computed Axial Tomography of the Chest for the Detection of Coronary Artery Disease in Patients With Idiopathic Pulmonary Fibrosis. November 2009

Basavaraj A, Barnett SD, Kiernan J, Shlobin OA, Ahmad S, **Nathan SD**. Prevalence of Unsuspected Coronary Artery Disease in Patients with Idiopathic Pulmonary Fibrosis. Best clinical research poster Washington DC Thoracic Society meeting, April 2009.

M Chhina, MC Emblom-Callahan, GM Grant, **SD Nathan**. Beta-actin protein over-expression in IPF pulmonary myofibroblasts *in vivo*. Best basic research poster Washington DC Thoracic Society meeting, April 2009.

American Lung Association of Virginia's 2008 Douglas Southall Freeman Award for outstanding leadership in lung transplantation

Certificate of appreciation in recognition of outstanding skill and dedication in teaching Pulmonary and Critical Care Fellows 2004. Department of Medicine, Walter Reed Army Medical Center.

Young investigator award, American College of Chest Physicians 2001. Kelly WF, **Nathan S**, Sanghani S, Burton N. Significance or Early Bronchoscopic Airway Abnormalities after Lung Transplantation.

Letter of commendation from Chest for being in the top ten percent of manuscript reviewers. March 2002.

Senior Citizens Counseling and Delivery Service and Medical Society of D.C. Winner of the 20<sup>th</sup> Annual "It's Great to be Alive" Senior Essay Contest for Outstanding Professionalism and Exemplary Care and Commitment to Senior Citizens. May 31<sup>st</sup> 2002

University of the Witwatersrand 75th Jubilee medal award for distinguished achievements -1997.

Young investigators award, Southern California research conference 1993. Ishaaya A, **Nathan S**, Belman M: Work of Breathing in the Immediate Post Extubation Period.

## PROFESSIONAL SOCIETIES:

### Professional Activities:

Washington DC Thoracic Society, Member

American Thoracic Society, Member

Fellow of the American College of Chest Physicians

International Society for Heart and Lung Transplantation, Member

Pulmonary Council Member, International Society for Heart and Lung Transplantation

Pulmonary Vascular Research Institute, Fellow-2011  
European Respiratory Society, member

**Committees:**

June 2018-	Chair, DSMB for DHEA in PAH
2018 June 14 <sup>th</sup>	Chair, FDA Advisory Panel, Anesthesiology and Respiratory Therapy Devices Panel Meeting: PneumRx, Inc. ELEVAIR Endobronchial Coil System
2018 Feb-Mar	Co-Chair World Symposium on Pulmonary Hypertension Lung Disease Task Force
2017 May 17 <sup>th</sup>	Member, FDA Advisory Panel for Transmedics Organ Care System. Gastroenterology and Urology Devices Panel
2016-	Steering committee member. A phase IIB study of Sildenafil added to Pirfenidone in advanced IPF and intermediate or high probability of group 3 PH. (Roche-MA29957)
2016-	Steering committee member for RIN-PH-201 (INCREASE Study) Safety and Efficacy of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease
2016-	Steering committee member for RIN-PH-203 study (Safety and Tolerability of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Chronic Obstructive Pulmonary Disease
2016 Nov 10 -	ATS Nominating Committee for Clinical Problems Assembly.
2016, March 31st	External Advisory Board member COPD/ILD PPG: NIH NHLBI P01HL11450
2016-	Clinical representative to the Care Center Network and Patient Registry Steering Committee, Pulmonary Fibrosis Foundation.
2014-active	Biospecimen Use Committee, Inova Fairfax Hospital
2014-active	Executive Research Oversight Committee, Inova Fairfax Hospital
2014-active	Chair, FDA Anesthesiology and Respiratory Therapy Devices Panel
2014, March 20 <sup>th</sup>	Member, FDA Advisory Panel for XVIVO Perfusion System, Gastroenterology and Urology Devices Panel.
2014-active	Chair, Steering Committee for Pilot initiative (Pulmonary Fibrosis Identification: Lessons for Optimizing Treatment)
2014, February 20 <sup>th</sup> .	Chair, FDA Advisory meeting for the Inspire II Upper Airway Stimulator
2013-active	Chair, Steering Committee for ILD-PH study of Riociguat.
2013-2014	Chair, Promotions Committee, Inova Fairfax campus of VCU
2013-2016	Virginia Commonwealth University-Inova Fairfax campus promotions committee.
2013-active	Consultant, Anesthesiology and Respiratory Therapy Devices Panel of the Medical Devices Advisory Committee, Center for Devices and Radiological Health, FDA
2012-2015	ATS Pulmonary Circulation Assembly Program Committee
2012-2016	Chairperson, Inova Pulmonary and Critical Care Task Force.
2011-2013	Adjudication committee :Imatinib in Pediatric PAH Novartis study CQTI571A2306:
2011-2013	Adjudication Committee of nilotinib in PAH patients (study CAMN107X2201)
2011-active	Steering Committee member, www.theheart.org, Pulmonary Hypertension
2011-active	Medscape PAH Advisory Board
2011-2012	Member, Steering Committee, Riociguat for COPD-PH study,
2011-2014	Member, Steering Committee, ASCEND study of Pirfenidone for IPF
2011-2012	Chairperson, Finance and Investment Committee, Washington Regional Transplant Community
2011-2012	Member, Steering Committee for CME program "Comprehensive PAH Management"

2010-2017	Faculty member for Interstitial lung diseases, Faculty of 1000.
2010-2011	Committee member GMU, Masters Degree John Grimsley & Steven Longstreet
2009-2011	Member Steering Committee, Artemis-IPF
2009-active	Adjudication Committee for Novartis study of Tasigna in PAH.
2009-2012	Medscape Transplantation Advisory Board
2009-2013	Adjudication Committee for IMPRES Study (Novartis).
2009-2010	Specialist advisor for British Medical Journal Action Sets.
2009-2011	Chair, Steering Committee, Artemis-PH study
2008-2009	Search Committee member, Chief Pulmonary-Vascular Medicine Branch, National Institute of Health
2008-2010	Committee member, Doctoral Degree committee (GMU) for Mantej Chhina & Margaret Emblom-Callahan
2007-active	Honor Code Faculty Advisor, Virginia Commonwealth University, Inova Fairfax Campus
2006-2013	Member, Data Safety Monitoring Board for the NIH sponsored IPF Clinical Resource Network
2005-active	Pulmonary Editorial Board, Medscape
2004-2010	Steering Committee member for Pilot initiative (Pulmonary Fibrosis Identification: Lessons for Optimizing Treatment)
2004-2008	American College of Chest Physicians abstract reviewer
2003-2007	American College of Chest Physicians Network Interstitial Lung Disease Steering Committee
2003-active	Inova Health System IRB Executive Committee
2000-2013	Annual Inova Pulmonary & Critical Care Conference, co-course Director
2001-2003	Graduate Medical Education Committee, Inova Fairfax Hospital
1998-1999	American Thoracic Society International Conference Clinical Program Organizing Committee
1994 - 1996	Member, Infection Control Committee, McGuire VA Medical Center
1994- 1998	Member of Lung Transplant Research Database Group
1989-1992	Fellow Representative, Pulmonary Advisory Committee and Pulmonary RAPP Committee. Cedars-Sinai Medical Center

**Reviewer:**

BMC Pulmonary Medicine

Journal of Medical Economics

Lancet Respiratory

JAMA

American Journal of Transplantation

American Review of Respiratory and Critical Care Medicine

Annals of Internal Medicine

Arthritis and Rheumatism

Chest

European Respiratory Journal

Expert Opinion on Biological Therapy

Expert Opinion on Emerging Drugs

Gene Therapy & Molecular Biology

Journal of Intensive Care Medicine

Progress in Transplantation  
Respiration  
The Journal of Heart and Lung Transplantation  
The Journal of Rheumatology  
Thorax  
BMJ Point of Care  
Future Cardiology  
Respirology  
International Journal of COPD  
Respiratory Research  
Clinical Transplantation  
Lung  
Contemporary Clinical Trials  
Acta Cardiologica  
Clinical Investigation  
Proceedings of the American Thoracic Society  
Cochrane Review

**Editorial Boards:**

2016- Associate Editor, Yearbook of Pulmonary Disease  
2015-active Editorial Board member, Thorax  
2014- 2015 Editorial Board, Annals ATS  
2013- 2015 Associate Editor, Thorax  
1999- active Editorial Board, Progress in Transplantation

**PUBLIC SERVICE:**

2011-2013 Chair of the Finance Committee, Washington Regional Transplant Community  
1997-2001 Member, Fairfax County Commission on Organ and Tissue Donation and Transplantation  
2002-2018 Board Member, Washington Regional Transplant Community

**Extracurricular Achievements:**

1996 Marine Corps Marathon  
1989 Los Angeles Marathon  
1987 New York Marathon  
1985 Johannesburg Marathon  
1978/79 Swimming - South African International Swim Team  
1979 South African 200 meters Freestyle/100 meters Butterfly runner-up  
1978 South African 100 meters Freestyle Champion  
1978 Provincial Team Swimming Captain  
1975 High School Provincial Team Swimming Captain

**Scholarship and Research:**

**PUBLISHED RESEARCH PAPERS:**

1 **Nathan SD**, Ishaaya A, Koerner SK, Belman M: Prediction of Minimal Pressure Support during Weaning

from Mechanical Ventilation. *Chest* 1993; 103:1215-1219

2. Ross DJ, Vassollo M, Kass R, Koerner SK, Siegel R, **Nathan SD**, Waters P, Maurer G: Transesophageal Echocardiographic (TEE) Assessment of Pulmonary Venous Flow after Single Lung Transplantation. *Journal of Heart and Lung Transplantation* 1993; 12:689-694
3. **Nathan SD**, Ross DJ, Zakowski P, Kass RM, Koerner SK; Utility of Inhaled Pentamidine Prophylaxis in Lung Transplant Recipients. *Chest* 1994; 105:417-420
4. Ishaaya A, **Nathan SD**, Belman MJ: Work of Breathing in the Immediate Post Extubation Period. *Chest* 1995; 107:204-209
5. Ross DJ, Belman MJ, Mohsenifar Z, **Nathan SD**, Kass RM, Koerner SK: Obstructive Flow-Volume Loop Contours after Single Lung Transplantation. *Journal of Heart and Lung Transplantation* 1994; 13:508-513
6. Belman MJ, Botnick WC, **Nathan SD**, Chon K: Ventilatory Load Characteristics During Ventilatory Muscle Training. *Am J Respir Crit Care Med* 1994; 149:925-929.
7. Ross DJ, Yeh A, **Nathan SD**, Toyoda M. Marchevski A, Kass RM, Koerner SK, Jordan SC. Differential SIL-2R levels in Bilateral Bronchoalveolar Lavage after Single Lung Transplantation. *Journal of Heart and Lung Transplantation* 1994;13:972-9
8. **Nathan SD**, Ross DJ, Belman MJ, Shain S, Elaashoff JD, Kass RM, Koerner SK. Bronchiolitis Obliterans in Single Lung Transplant Recipients. *Chest* 1995; 107:967-72.
9. Ross DJ, Jordan SC, **Nathan SD**, Kass RM, Koerner SK. Delayed Development of Obliterative Bronchiolitis Syndrome with OKT3 after Unilateral Lung Transplantation; a Plea for Multicenter Immunosuppressive Trials. *Chest* 1996; 109: 970-973
10. **Nathan SD**, Shorr A, Schmidt ME, Burton NA. Aspergillus and Endobronchial Problems in Lung Transplant Recipients. *Chest* 2000;118:403-407
11. Shorr AF, Davies D, **Nathan SD**. Outcomes for Patients with Sarcoidosis awaiting Lung Transplantation. *Chest* 2002;122:233-238
12. **Nathan SD**, Barnett SD, Burton NB. Bronchiolitis Obliterans Syndrome: Utility of the New Guidelines in Single Lung Transplant Recipients. *J Heart Lung Transplant* 2003;22:427-432
13. Shorr AF, Davies DB, **Nathan SD**. Predicting Mortality in Patients with Sarcoidosis awaiting Lung Transplantation. *Chest* 2003;124:922-028
14. Kelly WF, **Nathan S**, Sanghani S, Barnett SD, Burton N. Significance of early Bronchoscopic Airway Abnormalities after Lung Transplantation. *J Heart Lung Transplant* 2003;22:583-586
15. **Nathan SD**, Barnett SD, Nowalk C, Moran B, Burton N. Pulmonary Emboli in IPF Transplant Recipients. *Chest* 2003;123:1758-1763
16. **Nathan SD**, Barnett SD, Moran B, Helman D, Johnson K, Ahmad S, Shorr A. Interferon gamma1-b as

therapy for Idiopathic Pulmonary Fibrosis: an Intrapatient Analysis. *Respiration* 2004;71:77-82

17. Shorr AF, Helman DL, Davies DB, **Nathan SD**. Sarcoidosis, Race and Short-term Outcomes Following Lung Transplantation. *Chest* 2004;125:990-996
18. **Nathan SD**, Barnett SD, Ahmad S, Harrison J, Shorr AF, Lefrak EA, Burton NB. Mortality from Time of Listing for Transplant as an Indicator of Candidate Outcomes. *Progress in Transplantation* 2004;14:29-32
19. **Nathan SD**, Edwards LB, Barnett SD, Ahmad S, Burton NB. Outcomes of COPD Transplant Recipient's Post-Lung Volume Reduction Surgery. *Chest* 2004;126:1569-1574
20. Shah NR, Noble P, Jackson R, King T, **Nathan S**, Padilla M, Raghu G, Rhodes M, Schwarz M, Tino G, Dubois RW. A Critical Assessment of Treatment Options for Idiopathic Pulmonary Fibrosis. *Sarcoidosis Vasc Diffuse Lung Dis* 2005;22:167-174
21. Shorr AF, Helman DL, Davies DB, **Nathan SD**. Pulmonary Hypertension in Advanced Sarcoidosis: Epidemiology and Clinical Characteristics. *European Respiratory Journal*. May 2005 25(5):783-8
22. Lettieri CJ, Browning RF, Shorr AF, Ahmad S, **Nathan SD**. The Distance Saturation Product: A Novel Measure for Mortality Prediction in Idiopathic Pulmonary Fibrosis. *Respiratory Medicine* 2006;100:1734-1741
23. Lettieri CJ, **Nathan SD**, Barnett S, Ahmad S, Shorr AF. Prevalence and Outcomes of Pulmonary Arterial Hypertension in Idiopathic Pulmonary Fibrosis. *Chest* 2006;129: 746-752
24. Orens, JB, Estenne M, Arcasoy S, Conte JV, Corris P, Egan JJ, Egan T, Keshavjee S, Knoop C, Kotloff R, Martinez FJ, **Nathan S**, Palmer S, Patterson A, Singer L, Snell G, Studer S, Vachiery JL, Glanville AR. International Guidelines for the Selection of Lung Transplant Candidates:2006 Update-A Consensus Report From the Pulmonary Scientific Council of the International Society for Heart and Lung Transplantation. *J Heart Lung Transplant* 2006;25:745-755
25. **Nathan SD**, Shlobin OA, Ahmad S, Urbanek S, Barnett SD. Pulmonary Hypertension and Pulmonary Function Testing in Idiopathic Pulmonary Fibrosis. *Chest* 2007;131:657-663
26. Shorr AF, Wainright JL, Cors CS, Letteri CJ, **Nathan SD**. Pulmonary Hypertension In Patients with Pulmonary Fibrosis Awaiting Transplant. *Eur Respir J* 2007;30:715-721
27. **Nathan SD**, Shlobin OA, Ahmad S, Kraus T, Koch J, Barnett SD, Ad N, Burton N, Leslie K. Serial Development of Pulmonary Hypertension in Patients with Advanced Idiopathic Pulmonary Fibrosis. *Respiration* 2008;76:288-294
28. Zisman DA, Karlamangla AS, Kawut SM, Shlobin OA, Saggar R, Schwarz MI, Belperio JA, Lynch JP, **Nathan SD**. Validation of a Prediction Method to Estimate the Presence of Pulmonary Hypertension in Advanced Idiopathic Pulmonary Fibrosis. *Chest* 2008;133:633-639.

29. **Nathan SD**, Shlobin OA, Ahmad S, Barnett SD, Burton NA, Gladwin M, Machado R. Pulmonary Hypertension in Patients with Bronchiolitis Obliterans Post-Lung Transplantation. *Am J Transplant* 2008;8:1-6

30. **Nathan SD**, Barnett SD, Saggar R, Belperio JA, Shlobin OA, Ross DJ, Ahmad S, Saggar R, Libre E, Hourigan S, Lynch JP, Zisman DA. Right ventricular systolic pressure by echocardiography as a predictor of Pulmonary Hypertension in patients with idiopathic pulmonary fibrosis. *Respir Med* 2008;102:1305-1310

31. Barnett CF, Bonura EJ, **Nathan SD**, Ahmad S, Shlobin O, Osei K, Zaiman AL, Hassoun PM, Moller DR, Barnett SD, Grgis RE. The Treatment of sarcoidosis associated pulmonary hypertension: a two center experience. *Chest* 2009;135:1455-1461

32. El-Chemaly S, Malide D, Zudaire E, Ikeda Y, Weinberg B, Pacheco-Rodriguez G, Rosas I, MacDonald SD, Wu H, **Nathan SD**, Cutitta F, McCoy JP, Gochuico BR, Moss J. Abnormal Lymphangiogenesis in Idiopathic Pulmonary Fibrosis: Insights into Cellular and Molecular Mechanisms. *PNAS* 2009 <http://www.pnas.org/content/early/2009/02/20/0813368106.abstract>

33. King CS, Khandhar S, Burton N, Shlobin OA, Ahmad S, Barnett SD, **Nathan SD**. Native Lung Complications In Single Lung Transplant Recipients And the Role of Pneumonectomy. *J Heart Lung Transplant* 2009;28:851-6

34. **Nathan SD**, Shlobin OA, Reese E, Ahmad S, Fregoso M, Athale C, Barnett SD. The Prognostic Value of the Six-minute Walk Test in Patients with Bronchiolitis Obliterans Syndrome. *Respiratory Medicine* 2009;103:1816-21.

35. Minai OA, **Nathan SD**, Hill NS, Badesch DB, Stoller JK. Pulmonary Hypertension in Lung Diseases: Survey of Beliefs and Practice Patterns. *Res Med* 2010;104:741-748

36. Emblom-Callahan MC, Chhina M, Shlobin OA, Ahmad S, Reese E, Brenner R, Burton NB, Grant G, **Nathan SD**. Genomic Phenotype of Non-Cultured Pulmonary Myofibroblasts in Idiopathic Pulmonary Fibrosis. *Genomics* 2010;96:134-145

37. **Nathan SD**, Shlobin OA, Ahmad S, Burton NA, Barnett SD. Waiting times for IPF patients listed for bilateral or single lung transplantation only. *J Heart Lung Transplant* 2010;29:1165-1171

38. Woodrow JP, Shlobin OA, Barnett SD, **Nathan SD**. Prognosis Associated with Bronchiolitis Obliterans Syndrome Compared to Other Forms of Chronic Allograft Dysfunction Complicating Lung Transplantation. *J Heart Lung Transplant* 2010;29:1159-1164

39. **Nathan SD**, Basavaraj A, Reichner C, Shlobin OA, Ahmad S, Kiernan J, Burton N, Barnett SD. Prevalence and impact of coronary artery disease in Idiopathic Pulmonary Fibrosis. *Res Med* 2010;104:1035-1041

40. Cuttica MJ, Kalhan R, Shlobin OA, Ahmad S, Gladwin M, Machado RF, **Nathan SD**. Functional Impact of Pulmonary Hypertension in Patients with COPD Listed for Lung Transplant. *Res Med* 2010;104:1877-1882
41. **Nathan SD**, Shlobin OA, Urban, BA, Curry CA, Basavaraj A, Ahmad S, Weir N, Kiernan J, Sheridan MJ, Earls J. CAT scanning for the Detection of Coronary Artery Disease in patients with IPF. *Respirology* 2011;16:481-486
42. Eberlein M, Permutt S, Brown RH, Brooker A, Chahla MF, Bolukbas S, Mason DP, **Nathan SD**, Orens JB, Brower RG. Supranormal Expiratory Airflow after Bilateral Lung Transplantation is Associated with Improved Survival. *Am J Respir Crit Care Med* 2011;183:79-87
43. Swigris JJ, Olson A, Shlobin OA, Ahmad S, Brown KK, **Nathan SD**. Heart Rate Recovery after 6MWT Predicts Pulmonary Hypertension in Patients with IPF. *Respirology* 2011;16:439-445
44. Xue J, Gochuico B, Alawad A, Feghali-Bostwick C, Noth I, **Nathan SD**, Rosen G, Rosas I, Dacic S, Ocak I, Fuhrman C, Cuenco K, Smith M, Jacobs S, Zeevi A, Morel P, Pilewski J, Valentine V, Gibson KF, Kaminski N, Sciurba S, Zhang Y, Duncan S. The HLA Class II Allele DRB1\*15 is over-represented in patients with Idiopathic Pulmonary Fibrosis. *PLoS ONE* 2011 Feb 23;6(2):e14715
45. **Nathan SD**, Shlobin OA, Weir N, Ahmad S, Kaldjob JM, Battle E, Sheridan MJ, du Bois RM. Long-term Course and Prognosis of Idiopathic Pulmonary Fibrosis in the Modern Era. *Chest* 2011;140:221-229.
46. Kamal K. Mubarak, Ana Montes-Worboys, Doron Regev, Nasreen Najmunnisa, Kamal A. Mohammed, Ibrahim Faruqi, Edward Hensel, Maher A. Baz, Olufemi A. Akindipe, Sebastian Fernandez-Bussy, **Nathan SD**, Antony VB. Parenchymal trafficking of pleural mesothelial cells in idiopathic pulmonary fibrosis: Potential role in pathogenesis. *Eur Respir J* 2012;39:133-140
47. Eberlein M, Reed RM, Permutt S, Chahla MF, Bolukbas S, **Nathan SD**, Iacono A, Pearse DB, Fessler HE, Orens JB, Brower RG. Parameters of donor-recipient mismatch and survival after bilateral lung transplantation. Accepted *J Heart Lung Transplant* (July 28<sup>th</sup>, 2011). Oct 28. [Epub ahead of print] PMID: 22036314
48. Eberlein M, Permutt S, Chahla MF, Bolukbas S, **Nathan SD**, Shlobin OA, Shelhamer JH, Reed RM, Pearse DB, Fessler HE, Orens JB, Brower RG. Lung Size Mismatch in Bilateral Lung Transplantation Is Associated With Allograft Function and Bronchiolitis Obliterans Syndrome. *Chest* 2012;141:451-460
49. Brown AW, Shlobin OA, Weir N, Albano MC, Ahmad S, Smith M, Leslie K, **Nathan SD**. Dynamic patient counseling: A novel concept in idiopathic pulmonary fibrosis. *Chest* 2012;142:1005-1010
50. Shlobin OA, Weir N, Brown AW, Ahmad S, Brown K, Lemma M, **Nathan SD**. Transition of Pulmonary Hypertension Patients from Sildenafil to Tadalafil: Feasibility and Practical Considerations.

Lung. 2012 190:573-578.

51. Kottman RM, Kulkarni AA, Smolnycki KA, Lyda E, Dahanayake T, Salibi R, Honnons S, Jones C, Isern NG, Hu JZ, **Nathan SD**, Grant GG, Phipps RP, Sime PJ. Lactic acid is elevated in IPF and induces myofibroblast differentiation via pH dependent activation of TGF-beta. *Am J Respir Crit Care Med* 2012;186:740-751
52. Chan L, Chin LMK, Kennedy M, Woolstenhulme J, **Nathan SD**, Weinstein A, Connors G, Weir N, Drinkard B, Lamberti J, Keyser R. Improved Six-Minute Walk Distance and Quality of Life in Patients with Pulmonary Hypertension Following Intensive Treadmill Exercise Training. *Chest* 2013;143:333-343.
53. El-Chemaly S, Malide D, Yao J, **Nathan SD**, Rosas IO, Gahl WA, Moss J, Gochuico BR. Glucose transporter-1 (Glut-1) Distribution in Fibrotic Lung Disease: Association with FDG-PET Uptake Inflammation, and Neovascularization. *Chest* 2013;143:1685-91
54. **Nathan SD**, Reffett T, Brown AW, Fischer CP, Shlobin OA, Ahmad S, Weir N, Sheridan MJ. ScD- The Red Cell Distribution Width as a Prognostic Indicator in IPF. *Chest* 2013;143:1692-98
55. Raghu G, Behr J, Brown KK, Egan JJ, Kawut SM, Flaherty KR, Martinez FJ, **Nathan SD**, Wells AU, Collard HR, Costabel U, Richeldi L, Andrade J, Noble P, Cottin V, DeMarco T, Davis C, Khalil N, Morrison LE, Lederer D, Shao L, Pedersen PS, Montgomery AB, Chien JW, O'Riordan TG. Artemis-IPF: Treatment of Idiopathic Pulmonary Fibrosis with Ambrisentan, a Selective Antagonist of the Endothelin A Receptor: A randomized trial. *Ann Int Med* 2013 158:641-9
56. Weinstein AA, Kennedy M, Keyser RE, **Nathan SD**, Chin LMK, Woolstenhulme J, Connors G, Chan L. Effect of Aerobic Exercise Training on Fatigue and Physical Activity in Patients with Pulmonary Hypertension. *Respir Med*. 2013 107:778-84
57. Weir NA, Brown AW, Shlobin OA, Smith MA, Reffett T, Battle E, Ahmad S, **Nathan SD**. The Influence of Alternative Instruction on the Six Minute Walk Test Distance. *Chest* 2013;144:1900-1905
58. King Jr TE, Albera C, Bradford WZ, Costabel U, du Bois RM, Leff JA, **Nathan SD**, Sahn SA, Valeyre D, Noble PW. All-cause Mortality Rate in Patients with Idiopathic Pulmonary Fibrosis: Implications for the Design and Execution of Clinical Trials. *Am J Respir Crit Care Med* 2014;189:825-831
59. Cullinane AR, Yeager C, Dorward H, Carmona-Rivera C, Wu HP, Moss J, O'Brien KJ, **Nathan SD**, Meyer KC, Rosas IO, Helić-Wooley A, Markello TC, Huizing M, Gahl WA, Gochuico BR. BLOC-3 Regulation of Galectin-3: Implications for Hermansky-Pudlak Syndrome Pulmonary Fibrosis. *American Journal of Respiratory Cell and Molecular Biology* 2014;50:605-613
60. King TE, Bradford WZ, Castro-Bernardini S, Fagan EA, Glaspole I, Glassberg MK, Gorina E, Hopkins PM, Kardatzke D, Lancaster L, Lederer D, **Nathan SD**, Pereira CA, Sahn SA, Sussman R, Swigris JJ, Noble PW. The ASCEND Trial: A randomized, double-blind, placebo controlled trial of pirfenidone in

patients with idiopathic pulmonary fibrosis. *N Engl J Med* 2014;370:2083-2092

61. Shin S, King CS, Brown AW, Albano MC, Atkins M, Sheridan M, Ahmad S, Newton K, Weir N, Shlobin OA, **Nathan SD**. Pulmonary artery size as a predictor of pulmonary hypertension and outcomes in patients with chronic obstructive pulmonary disease. *Respir Med*. 2014 Nov;108(11):1626-32
62. Brown AW, Fischer CP, Shlobin OA, Buhr RG, Ahmad S, Weir NA, **Nathan SD**. Outcomes after Hospitalization in Idiopathic Pulmonary Fibrosis: a cohort study. *Chest* 2015;147: 173 – 179
63. Keyser RE, Woolstenhulme J, Chin L, **Nathan SD**, Connors G, Drinkard B, Lamberti J, Chan L. Cardiorespiratory Function Before and After Aerobic Exercise Training in Patients with Interstitial Lung Disease. *J Cardiopulm Rehabil Prev*. 2015 Jan-Feb;35(1):47-55
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42. **Nathan SD**, Martinez FJ. Pitfalls in developing new compounds for IPF. Curr Opin Pulm Med 2017, 23:426-431
43. **Nathan SD**. Evaluating New Treatment Options (for IPF): Am J Managed Care 2017;23:S139-146
44. Brown AW, **Nathan SD**. The Value and Application of the Six Minute Walk Test in Idiopathic Pulmonary Fibrosis. Ann Am Thorac Soc. 2018 Jan;15(1):3-10.
45. Benza R, Raina A, Kanwar MK, **Nathan SD**, Mathai SC. sGC stimulators: evidence in pulmonary hypertension and beyond. accepted to the Journal of Rare Diseases Research and Treatment 11/2/17.
46. Aryal S, **Nathan SD**. An Update on Emerging Drugs for the Treatment of Idiopathic Pulmonary Fibrosis. Expert Opinion on Emerging Drugs. Expert Opin Emerg Drugs. 2018 Jun;23(2):159-172. doi: 10.1080/14728214.2018.1471465.
47. Aryal S, **Nathan SD**. Single vs Bilateral Lung Transplantation: When and Why. Curr Opin Organ Transplant. 2018 Jun;23(3):316-323. doi: 10.1097/MOT.0000000000000527.
48. Ahmad K, **Nathan SD**. Novel management strategies for idiopathic pulmonary fibrosis. Submitted to Expert Review of Respiratory Medicine March 21, 2018.

#### **Consensus Statements:**

1. John H. Newman, Stuart Rich, Steven H. Abman, John H. Alexander, John Barnard, Gerald J. Beck, Raymond L. Benza, Todd M. Bull, Stephen Y. Chan, Hyung J. Chun, Declan Doogan, Jocelyn Dupuis, Scott S. Emerson, Serpil C. Erzurum, Robert P. Frantz, Mark Geraci, Hunter Gillies, Mark Gladwin, Michael P. Gray, Anna Hemnes, Roy S. Herbst, Adrian F. Hernandez, Nicholas S. Hill, Evelyn M. Horn, Kendall Hunter, Zhi-Cheng Jing, Roger Johns, Sanjay Kaul, Steven Kawut, Tim Lahm, Jane A.

Leopold, Greg D. Lewis, Stephen C. Mathai, Vallerie V. McLaughlin, Evangelos D. Michelakis, **Steven D. Nathan**, William Nichols, Grier Page, Marlene Rabinovitch, Jonathan Rich, Franz Rischard, Sharon Rounds, Sanjiv J. Shah, Victor F. Tapson, Naomi Lowy, Norman Stockbridge, Gail Weinmann, Lei Xiao. Enhancing Treatments for Pulmonary Vascular Diseases (PVD) Through Precision Medicine. A Joint NHLBI-CMREF Workshop Report. *Am J Respir Crit Care Med* 2017; 195:1661-1670

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3. **Nathan SD**, Barbera JA, Gaine SP, Harari S, Martinez FJ, Olschewski H, Olsson KM, Peacock AJ, Pepke-Zaba J, Provencher S, Weissmann N, Seeger W. Pulmonary Hypertension in Chronic Lung Disease. To be submitted to JACC

#### Letters:

1. **Nathan SD**, Glauser FL. Pulse Oximetry Monitoring: Blinded by the Light, Lulled by the Beeps. *Annals of Emergency Medicine* 1995;26:5;661
2. **Nathan SD**, Barnett SD. Idiopathic Pulmonary Fibrosis in Transplantation. *Chest* 2003;124;6:2404
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5. Eberlein M, Robert R, Böülükbas S, **Nathan S**, Brower R. Response to letter, Concerns raised by lung size-mismatched transplantation. *Chest* 2012;142:543-543
6. **Nathan SD**, Brown AW, Weir N. Response to letter Six minute walk distance-effect of instructions. *Chest* 2014;145:1440-1441

#### Editorials:

1. **Nathan S**, Barnett S. Telesupport: Just Reach Out and Touch Someone. *Chest* 2002. 122:1114-1116
2. **Nathan SD**, du Bois RM. IPF trials: recommendations for the jury. *Eur Respir J* 2011;38:1-3
3. **Nathan SD**. Pulmonary hypertension complicating Pulmonary Fibrosis: bad and ugly, but good to treat? *Thorax* 2014;69:107-108
4. **Nathan SD**. Hypersensitivity pneumonitis and pulmonary hypertension-how the breeze affects the squeeze. *Eur Respir* 2014;44:287-288

5. **Nathan SD**, Carbone R. Bosentan in pulmonary hypertension due to fibrotic idiopathic interstitial pneumonia: Hidden value in a neutral trial. *Am J Res Crit Care Med* 2014;190:131-132
6. **Nathan SD**. King CS. Organ donors: Making the most of what is offered. *Chest*. 2015 Aug 1;148(2):303-5.
7. **Nathan SD**, Corris PA. Upfront combination therapy: does the Ambition study herald a new era in the treatment of pulmonary arterial hypertension. *Thorax* 2016;71:107-109 doi:10.1136/thoraxjnl-2015-207854
8. King CS, **Nathan SD**. "Should all patients with IPF, even those with more than moderate impairment, be treated with nintedanib or pirfenidone?" YES. *Chest*. 2016;150(2):273-275
9. Hassoun P, **Nathan SD**. Sildenafil for pulmonary hypertension complicating IPF: a rationale grounded in basic science. *Eur Respir J*. 2016 Jun;47(6):1615-7. doi: 10.1183/13993003.00395-2016.
10. **Nathan SD**. Antacid therapy and IPF: cause for heartburn? *Lancet Respir Med*. 2016 Mar 31. pii: S2213-2600(16)00102-8. doi: 10.1016/S2213-2600(16)00102-8
11. Maher TM, **Nathan SD**. Survival in IPF: perspectives from pulmonary arterial hypertension. *J Manag Care Spec Pharm*. 2017;23(3-b):S3-S4.

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2. **Nathan SD**. IPF: Update on experimental therapies and current clinical trials. Pilot Initiative (Pulmonary Fibrosis Identification Lessons for Optimizing Treatment). Winter 2005
3. **Nathan SD**. IPF Updates Monograph Series: Lung Transplant. Pilot Initiative (Pulmonary Fibrosis Identification Lessons for Optimizing Treatment). December 2009
4. **Nathan S**, Mills R. New therapy options for the treatment of idiopathic pulmonary fibrosis. *Magellan Rx Report* Fall 2015:33-37

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1. **Nathan S**, Ohler L. Lung and Heart-Lung Transplantation. *Solid Organ Transplantation: A Handbook for Primary Health Care Providers*. Springer Publishing Company 2002
2. **Nathan SD**, Lynch J, Ross D. Transplantation and Interstitial Lung Disease. *Lung and Heart-Lung Transplantation, for Lung Health and Biology in Disease*, Marcel Dekker, Inc. 2005
3. **Nathan SD**, Stoller JK. Alpha-1 antitrypsin Deficiency and the Liver. *Clinician's Guide to Common Liver Diseases*. Published Cambridge Press. 2008

4. Shlobin OA, **Nathan SD**. Lung transplantation. In Pulmonary Rehabilitation: Guidelines to Success, 4<sup>th</sup> edition (edited by Hodgkin JE, Celli BR, Connors GA). Mosby Elsevier 2008
5. Shlobin OA, **Nathan SD**. Interstitial lung disease and pulmonary hypertension. (edited by Robert Baughman, MD and Ronald du Bois, MD)
6. Collen JF, **Nathan SD**. Pulmonary Hypertension complicating underlying Lung Disease. (edited by Namita Sood).
7. Brown AW, **Nathan SD**. Making a Confident Diagnosis of Obliterative Bronchiolitis. Bronchiolitis Obliterans Syndrome in Lung Transplantation Series: [Respiratory Medicine](#), Vol. 8. Meyer, Keith C.; Glanville, Allan R. (Eds.) 2013.
8. **Nathan SD**. IPF Phenotypes. Idiopathic Pulmonary Fibrosis (edited by Meyer and **Nathan**). Published by Springer 10/9/2013
9. Shlobin OA, **Nathan SD**. Sarcoidosis associated pulmonary hypertension. Pulmonary Sarcoidosis: A Guide for the Practicing Clinician. Springer Science+Business Media 2014. Edited by Marc Judson.
10. King CS, **Nathan SD**. The [Role of identification and treatment of comorbidities in IPF and other fibrotic lung diseases](#). [Current Opinions in Pulmonary Medicine](#) 2015. Edited by Lucas Richeldi and Kevin Flaherty.
11. King CS, **Nathan SD**. Treatment of Pulmonary Hypertension in Interstitial Lung Disease. For Pulmonary Hypertension and Interstitial lung disease. Edited by Robert P. Baughman, Roberto G. Carbone and **Steven D. Nathan**. Published by Springer 2017
12. Shlobin OA, **Nathan SD**. Rare ILD and PH. For Pulmonary Hypertension and Interstitial lung disease. Edited by Robert P. Baughman, Roberto G. Carbone and Steven D. Nathan. Published by Springer 2017
13. **Nathan SD**. Interstitial Lung Disease and Pulmonary Hypertension. Pulmonary Circulation: Diseases and their treatment, Fourth Edition. Editors, Peacock, Naeije and Rubin. CRC Press. Published September 2016
14. Understanding the Role of Comorbidities in Interstitial Lung Diseases. Shifren A, Russell T, Anderson A, **Nathan SD**. For Clinical Handbook of Interstitial Lung Disease, edited by Drs. Muhunthan Thillai, David R. Moller, and Keith C. Meyer. Published by CRC Press 2018
15. Meyer KC, **Nathan SD**. Mimics of Idiopathic Pulmonary Fibrosis. Idiopathic Pulmonary Fibrosis-2<sup>nd</sup> edition (edited by Meyer and **Nathan**).
16. King CS, Aryal S, **Nathan SD**. Idiopathic Pulmonary Fibrosis: Phenotypes and Comorbidities for Idiopathic Pulmonary Fibrosis-2nd edition (edited by Meyer and **Nathan**).

#### Books & Editors:

1. Idiopathic Pulmonary Fibrosis. Edited by Keith Meyer, MD and **Steven Nathan, MD**. Published by Springer 10/9/2013
2. Current Opinions in Pulmonary Medicine. Interstitial Lung Diseases 2014. **Nathan SD**, Bonella F Co-editors.
3. Current Opinions in Pulmonary Medicine. Interstitial Lung Diseases 2015. **Nathan SD**, Bonella F Co-editors.
4. Current Opinions in Pulmonary Medicine. Interstitial Lung Diseases 2015. **Nathan SD**, Bonella F Co-editors.
5. Handbook of IPF. **Nathan SD**, King C, Brown AW. Springer-published 2016.
6. Pulmonary Hypertension and Interstitial lung disease. Edited by Robert P. Baughman, Roberto G. Carbone and **Steven D. Nathan**. Commissioned by Springer December 2013. Published August 25 2017
7. Idiopathic Pulmonary Fibrosis.(2<sup>nd</sup> edition) Edited by Keith Meyer, MD and **Steven Nathan, MD**. In progress

### **Electronic Publications & Presentations**

1. <http://transplantation.medscape.com/Home/Topics/transplantation/directories/dir-TRAN.AskExperts.html>
2. <http://www.medscape.com/medscape/transplantation/AskExperts/2000/08/TRAN-ae38.html>
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9. New Pulmonary Arterial Hypertension Treatment Data to Update Clinical Practice  
<http://www.medscape.com/viewarticle/576044>
10. Don't Delay: Early Diagnosis and Initial Therapy for Pulmonary Arterial Hypertension.  
<http://cme.medscape.com/viewarticle/719498> May 2010.
11. Expert Interview Video Series: American Thoracic Society Conference Highlights in Pulmonary Arterial Hypertension. <http://cme.medscape.com/viewarticle/722487>
12. Information Television Network episode, "Pulmonary Arterial Hypertension: New Treatments and New Options"<http://www.itvisus.com/programs/hbhm/index.asp#oid=9nZXJxOs6dkG->

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13. Medical Crossfire; Series on pulmonary arterial hypertension: available online 3/12/11-3/12/12  
<http://cme.medicalcrossfire.com/Activity/1000397>
14. Nathan SD, Park HP, Kingman MS. Perspectives on the Optimal Management of Pulmonary Arterial Hypertension. <http://www.medscape.org/viewarticle/740139>. Posted 4/11/2011
15. Nathan SD, Gomberg-Maitland M, Safdar Z. Following the Footsteps of Evidence-Based Recommendations for PAH: Is Early Better? <http://www.medscape.org/viewarticle/744133> Posted June 2011
16. Fagan KA, Nathan SD. Striving to Optimize Individual Patient Outcomes in Pulmonary Arterial Hypertension. Available online 4/7/11-4/7/12  
[http://www.medscape.org/viewarticle/740034?src=0\\_mp\\_cmenl\\_0](http://www.medscape.org/viewarticle/740034?src=0_mp_cmenl_0)
17. Nathan SD, Collard HR, Martinez FJ. Idiopathic Pulmonary Fibrosis: New Insights Into An Old Problem CME <http://www.medscape.org/viewarticle/766305>  
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18. Nathan SD, Shlobin OA. Taking Steps to Improve Patient Outcomes in PAH CME <http://www.medscape.org/viewarticle/767051>  
Posted 7/13/12-7/13/13
18. Nathan SD, Channick R. Identifying and Meeting PAH Treatment Goals: Improving a Patient's Quality of Life  
<http://www.theheart.org/condition/hypertension/section/cme-programs.do> Posted July 13 2012
19. Nathan SD, Farber HW. Live on PAH: Breathing Life Into Patients With PAH CME Released: 04/12/2012; Valid for credit through 04/12/2013 <http://www.medscape.org/viewarticle/761723>
20. Nathan SD, Collard HR, Martinez FJ. Idiopathic Pulmonary Fibrosis: New Insights Into An Old Problem CME Released: 07/11/2012; Valid for credit through 07/11/2013  
<http://www.medscape.org/viewarticle/766305>
21. Nathan SD, Ghofrani HA. Treating Pulmonary Arterial Hypertension: What Gaps Persist? CME Released: 12/04/2012; Valid for credit through 12/04/2013  
<http://www.medscape.org/viewarticle/774374>
22. Nathan SD, Marks DR. What is PAH? <http://www.medscape.org/viewarticle/803539>  
<http://www.medscape.org/sites/advances/pah-tv>. Valid for credit 5/15/2013-5/15/2014
23. Flaherty K, Lederer D, Nathan SD (Chairperson) IPF minisymposium, New York City, March 1<sup>st</sup>, 2013.  
[http://www.pilotforipf.org/2013\\_mini\\_symposium.php](http://www.pilotforipf.org/2013_mini_symposium.php)
24. Nathan SD. Marks DR. How Can We Diagnose Patients With PAH Sooner?

<http://www.medscape.org/viewarticle/805430>

25. Nathan SD. Living Medical eTextbook: Pulmonology: Idiopathic Pulmonary Fibrosis. Chapter 5; Special Topics in IPF.  
<http://lmt.projectsinknowledge.com/Activity/index.cfm?jn=2162&sj=2162.51&i=22&setC=2>  
July 12,2013-July 11, 2014
26. **Nathan SD.** PH-IIP: Lessons for Optimizing Diagnosis and Treatment Part I: Classification and Diagnosis <http://www.pilotforipf.org/cme-activities/webinars/151-ph-iip-lessons-for-optimizing-diagnosis-and-treatment-part-i-classification-and-diagnosis>. January 5<sup>th</sup> 2015
17. Nathan SD. PH-IIP: Lessons for Optimizing Diagnosis and Treatment Part II:  
<http://www.pilotforipf.org/cme-activities/webinars/152-ph-iip-lessons-for-optimizing-diagnosis-and-treatment-part-2-treatment-approach>. January 5<sup>th</sup>, 2015
18. Noble PW, Flaherty KR, Lancaster LH, **Nathan SD**. Clinical Perspectives on the Diagnosis and Treatment of Idiopathic Pulmonary Fibrosis CME <http://www.medscape.org/viewarticle/846355>. August 4<sup>th</sup>, 2015
19. **Nathan SD.** IPF conference coverage 2015 <http://www.pilotforipf.org/pilot-connect-06. 12/ 3/2015>.
20. **Nathan SD**, Lynch D. Case Simulations in Interstitial Lung Disease: Addressing Diagnostic Challenges. [www.med-iq.com/a957](http://www.med-iq.com/a957) June 17, 2016.
21. Elicker BM, Leslie KO, **Nathan SD**. Heterogenous HRCT patterns of idiopathic pulmonary fibrosis: examining the radiologic-clinical- pathologic correlation. <http://www.pro-c.me/courses/index.html?MemberID=102181155&EmailID=10607147&SpecialtyID=167&ProfessionID=12&AOMID=47&Promocode=300&CampaignID=2109370&CountryID=240&collection=180200250&presentationid=p1#screen1> (2016-2017)
22. **Nathans SD**, Glassberg M, Lederer DJ. Progress against IPF.  
<http://www.cmecorner.com/programs.asp?audience=&ProductID=1235> March-02-16-March-02-17

### Research Grants:

#### Pharmaceutical Multicenter studies

1. Double-Blind Randomized Controlled Study of Pirfenidone in IPF. Marnac 1997. Phase 2 study (Principal Investigator (PI))
2. A Randomized, Double-Blind, Placebo-Controlled Study of Subcutaneous interferon-gamma1b in Patients with IPF (G-IPF001). \$60,000 from Intermune Pharmaceuticals. Phase 3 study (PI)
3. A Randomized, Double-Blind, Placebo-Controlled Phase 2 Study of Etanercept for IPF. Research Grant from

Wyeth Pharmaceuticals 2002-2004. Phase 2 study (PI)

4. A Multicenter, Randomized, Parallel Placebo-Controlled Study Of The Safety And Efficacy Of Subcutaneous Remodulin Therapy After Transition From Flolan In Patients With Pulmonary Arterial Hypertension. United Therapeutics 2002. Phase 4 study (PI)
5. A Randomized, Double-Blind, Placebo-Controlled Phase 2 Study of Imitinab Mesylate for IPF. Research Grant from Novartis 2003-2004. Phase 2 study (PI)
6. Inspire study: A Randomized, Double-Blind, Placebo-Controlled Study of Subcutaneous interferon-gamma1b in Patients with IPF (G-IPF007). Intermune Pharmaceuticals. Phase 3 study (PI)
7. Aerosolized iloprost: a Clinical Trial in IPF to Improve Ventilation and Exercise (Active Trial). Cotherix, Inc. 2005. Phase 2 study (Associate PI)
8. Endobronchial Valve for Emphysema PalliatioN Trial (VENT Study). Emphasy Medical, Inc. 2005. Phase 3 study (PI)
9. Compass Study of sildenafil versus sildenafil and bosentan for pulmonary arterial hypertension . Actelion 2006. Phase 3 study (PI)
10. Freedom study of oral treprostinil for pulmonary arterial hypertension. United Therapeutics 2006. Phase 3 study (PI)
11. Reveal Registry for Pulmonary Arterial Hypertension. Actelion 2006 (PI)
12. Pirfenidone for IPF (Capacity 2 study). Intermune 2006. Phase 3 study (PI)
13. A Retrospective Chart Review to Assess the Safety and Efficacy of Transitioning Patients on Ventavis to Remodulin. United Therapeutics 2007
14. BUILD-3 study of Bosentan in IPF. Actelion 2007. Phase 3 study (PI)
15. Inhaled cyclosporine for the prevention of bronchiolitis obliterans syndrome in lung transplant recipients. APT Pharmaceuticals 2008. Phase 3 study (PI)
16. Inhaled Treprostinil for Pulmonary Hypertension in IPF. United Therapeutics. Phase 1 study. October 2008 (PI)
17. Artemis-IPF study. Ambrisentan for IP Gilead August 2009. Phase 3 study (PI)
18. Artemis-PH study. Ambrisentan for IPF complicated by pulmonary hypertension. Gilead August 2009. Phase 3 study (PI and Chair of Steering Committee)
19. Ventavis to Inhaled Remodulin switch study. United Therapeutics 2009. Phase 4 study (PI)
20. A Phase 2a, Open-Label, Single-Arm Study to Evaluate the Safety, Tolerability, and Efficacy of FG-3019 in Subjects with Idiopathic Pulmonary Fibrosis. Protocol FGCL-3019-049. Fibrinogen 2011. (PI)

21. A 52 weeks, double blind, randomized, placebo-controlled trial evaluating the effect of oral BIBF 1120, 150 mg twice daily, on annual Forced Vital Capacity decline, in patients with Idiopathic Pulmonary Fibrosis (IPF). Protocol number 1199.32. Boehringer Ingelheim Pharmaceuticals, Inc. 2011 (PI)
22. A prospective, longitudinal, non-pharmacological, case-controlled study to evaluate longitudinal disease behavior and biomarker data over a 52-week period in IPF patients. Sanofi Aventis (PI)
23. Phase 2 Clinical Trial utilizing nebulized inhaled Nitrite for patients with PAH. Aires Pharmaceuticals. 2012-2014 (PI)
24. A Phase 2, Randomized Dose-ranging Study to Evaluate the Efficacy of Tralokinumab in Adults with Idiopathic Pulmonary Fibrosis. MedImmune 2012-15
25. RAINIER study of simtuzumab for IPF. Gilead 2013-2016. PI

#### **Investigator initiated studies**

1. Research grant from the ALA of Northern Virginia for the study of Advanced Lung Diseases. \$10,000 1997 (PI)
2. Endobronchial stents for patients with advanced COPD. \$12,000 from Boston Scientific 1997 (PI)
3. Research grant from Intermune Pharmaceuticals for research into IPF. \$10,000 (PI)
4. Development of a Questionnaire for the detection of IPF. Research Grant for \$60,000 from Intermune Pharmaceuticals 2003. (PI)
5. Anemia in Chronic Lung Disease. \$32,600 from Ortho Biotech 2004 (PI)
6. Voriconazole Prophylaxis in Lung Transplant Recipients. \$12,000 from Pfizer (PI)
7. Inhaled iloprost for parenchymal lung disease. \$75,000 from Cotherix 2006 (PI)
8. Idiopathic Pulmonary Fibrosis and Pulmonary Hypertension. \$25,000 from Intermune 2006 (PI)
9. Tailored Therapy for IPF. Inova Health Systems grant \$15,000. July 2007 (PI)
10. The Six Minute Walk Test: Reproducibility and Comparison to a Stair-Step Test. Inova Health Systems grant \$15,000. July 2008 (PI)
11. Antimicrobial Peptides in Idiopathic Pulmonary Fibrosis. George Mason University-Inova research grant \$40,000. September 2009 (associate PI)
12. Safety and feasibility of switching from oral to parenteral treprostinil. \$101,000 Funded by United Therapeutics November 2012
13. Pulmonary Rehabilitation in COPD: response to inhaled Treprostinil. Funded by United Therapeutics

\$284,754.00 February 2014 (co-PI)

### **Federal Funding**

1. NIH intramural grant for a NIH-Inova Advanced Lung Disease Program - \$1,538,000.00 over 5 years. September 28<sup>th</sup>, 2007
2. Response and Adaptation to Aerobic Exercise in Patients with Pulmonary Hypertension: NIH intramural grant for Pulmonary Rehabilitation protocol 2008. \$228,000
3. Validation of a multi-gene test for lung cancer risk. Prime Award No 1RC2CA148572. Subaward No. NS 2011-81 2011
4. National Biological Sample and Data Repository for Pulmonary Arterial Hypertension- R24 grant. January 2012
5. NIH intramural grant for a NIH-Inova Advanced Lung Disease Program extension - \$278,615.00 per year 2013-2017. PI
6. NIH grant Genome Transplant Dynamics. Protocol number 15-1906. August 2015 \$248,062.50 for one year. PI
7. Exercise Therapy for Advanced Lung Disease Trials: Response & Adaptation to Aerobic Exercise in Patients with Advanced Lung Disease. 9/8/2014-9/7/2017 IDIQ Contract Number HHSN269201400004I \$455,780.00. PI

### **CME Talks/Presentations:**

1. "Characteristics of the Ventilatory Load during Ventilatory Muscle Training" - presented at the Southern California Research Conference; Palm Springs, California. January 1991.
2. Case Presentations - American Thoracic Society Conference. Anaheim, California. May 1991.
3. "Metered-dose Inhalers" - Cedars-Sinai Medical Center Respiratory Therapy Conference. September 1991.
4. "Accuracy of Work of Breathing Prediction with Pressure Support Ventilation During Weaning", presented at the Southern California Research Conference; Palm Springs, California, January 1992.
5. "Lung Transplant Donor Selection", SCOPPC transplant coordinators, Cedars-Sinai Medical Center. November 1992.
6. "Lung Transplantation in the 90's" - Pulmonary Grand Rounds, Good Samaritan Hospital, Phoenix, Arizona, February 1993.
7. "Lung Cancer" - Lecture for 2nd year Medical Students - UCLA School of Medicine. February 1993/1994.
8. "Lung Transplantation" - Breakfast Seminar at American Thoracic Society Conference; San Francisco, California. May 1993.
9. "Lung Transplantation" - Pulmonary Update Conference; RMEC Institute - Birmingham, Alabama. September 1994.
10. "Lung Transplantation in the 1990's" - McGuire VA Medical Center, Richmond, VA. November 1994.
11. "Lung Transplantation within the VA System". Medical Grand Rounds; Wadsworth VA Medical Center. January 1995.
12. Lung Transplant Evaluation□- Fairfax Pulmonary Conference. October 1996.
13. Lung Transplantation□- Fairfax Hospital Grand Rounds. November 1996.
14. Lung Transplantation - Howard University Medical Grand Rounds. February 1997.
15. ICU Management of the Lung Transplant Recipient□- Washington, D.C. Critical Care Society. May 1997.
16. Lung Transplantation - Georgetown University Medical Grand Rounds. June 1997
17. Lung Transplantation in the 90's. Montgomery General Hospital Grand Rounds. June 1997
18. Lung Transplantation. Prince Georges Hospital Center Grand Rounds. October 1997
19. Nitric Oxide. Inova Fairfax Hospital Anesthesia Grand Rounds. April 1998

20. Pulmonary Hypertension. Winchester Hospital Grand Rounds. April 1998
21. Facilitator for poster session on lung transplantation. ATS International Conference. April 1998
22. ICU Management of the Lung Transplant Recipient. ATS International Conference. April 1999
23. Facilitator for poster session on lung transplantation. ATS International Conference. April 1999
24. Transplantation for the Internist. Shady Grove Hospital Medical Grand Rounds. June 1999
25. Outpatient Management of the Transplant Recipient. Inova Fairfax Hospital Medical Grand Rounds June 1999
26. "Lung Transplant Update". Sibley Hospital Grand Rounds September 1999
27. "Idiopathic Pulmonary Fibrosis". Sibley Hospital Grand Rounds September 2000
28. "Idiopathic Pulmonary Fibrosis". Eastern Virginia Medical School Grand Rounds October 2000
29. "Idiopathic Pulmonary Fibrosis". Howard University Medical Grand Rounds June 2001
30. "Interstitial lung diseases". Walter Reed Medical Grand Rounds September 2001
31. "Pulmonary Hypertension in the Transplant Recipient". Advances in Transplantation Conference. Crystal City, VA. September 2001
32. "Pulmonary Hypertension: 2001 Update". Virginia Thoracic Society Annual Conference. October 2001
33. "Lung Transplantation". Greater South East Community Hospital. November 2001
34. "Pulmonary Hypertension and the Transplant Candidate". Inova Fairfax Transplant Grand Rounds. January 2002
35. Retrospective Validation of BOS-P as a Predictor of BOS in Single Lung Transplant Recipients. International Society for Heart and Lung Transplantation Meeting, Washington DC April 2002.
36. Lung Transplantation and Alpha1-antitrypsin Deficiency. Alpha1-antitrypsin Deficiency Society meeting, Washington DC 2002.
37. Management of Pulmonary Hypertension in the Transplant Candidate. Transplant Nurses Forum, Washington DC October 2002.
38. Critical Aspects of Lung Transplantation. NIH Critical Care Medicine Lecture, October 2002
39. IPF: 2003 Update. Medical Grand Rounds. Spectrum Hospital. Grand Rapids, Michigan
40. Pulmonary Arterial Hypertension: 2003 Update. Winchester Medical Center, September 2003.

41. Evolving Therapeutic Trends in IPF. Satellite Symposium at American College of Chest Physicians, Orlando, FL. October 2003
42. Pulmonary Arterial Hypertension. Prince William Medical Center Medical Grand Rounds March 2004
43. Idiopathic Pulmonary Fibrosis: 2004 Update. Mercy Medical Center Grand Rounds, Macon Georgia, March 2004
44. Surgical Options for Advanced COPD. Medical Grand Rounds. Winchester Medical Center, Winchester VA, August 2004
45. Non-Pharmacologic Treatment Options for Advanced COPD. Inova Fairfax Hospital Medical Grand Rounds, September 2004
46. Pulmonary Hypertension: 2004 Update. Transplant Grand Rounds. Inova Fairfax Hospital. September 2004
47. Pulmonary Hypertension: Where Are We Today? George Washington Pulmonary Grand Rounds. September 2004
48. Bronchiolitis Obliterans. American College of Chest Physicians Meeting. Seattle, WA October 2004
49. Diagnosis of IPF. American College of Chest Physicians Meeting. Seattle, WA October 2004
50. ATS Treatment Guidelines for IPF. Satellite Symposium American College of Chest Physicians Meeting. Seattle, WA October 2004
51. Pulmonary Arterial Hypertension: 2005 Update. Inova Fairfax Medical Grand Rounds March 2005
52. Treatment of Pulmonary Arterial Hypertension. 2005 Update in Lung Medicine. Houston, TX April 2005
53. Non-Pharmacologic Treatment Options for COPD. Virginia Cardiac and Pulmonary Rehabilitation Conference. April 2005
54. Idiopathic Pulmonary Fibrosis. Virginia Cardiac and Pulmonary Rehabilitation conference. April 2005
55. Lung Transplantation: Candidate Selection. UCLA Pulmonary Grand Rounds May 2005
56. Idiopathic Pulmonary Fibrosis: update on studies. Cleveland Clinics Pulmonary Grand Rounds June 2005.
57. Pulmonary Arterial Hypertension: update on therapies. Virginia Thoracic Society. September 2005
58. Lung Transplant Candidate Evaluation. Virginia Thoracic Society. September 2005
59. Treatment and Trials for IPF. Satellite Symposium American College of Chest Physicians Meeting. Montreal, Canada October 2005
60. Treatment of IPF: An Evidence-based Approach. American College of Chest Physicians Meeting. Montreal, Canada October 2005

61. Pulmonary Hypertension: Diagnosis and Management. St.Agnes Medical Grand Rounds, Baltimore, MD
62. Lung Transplantation. George Washington Pulmonary Grand Rounds. November 2005
63. Pulmonary Hypertension: 2006 Update. Prince William Hospital, Medical Grand Rounds, Manassas, VA
64. Advances in the management of interstitial lung disease. American Thoracic Society meeting, San Diego, May 2006
65. Idiopathic Pulmonary Fibrosis and Pulmonary Hypertension. Cleveland Clinic Pulmonary Grand Rounds. August 2006
66. Therapy for IPF: Does anything work yet? American College of Chest Physicians meeting. Salt Lake City October 2006
67. IPF and Lung Transplantation: American College of Chest Physicians meeting. Salt Lake City October 2006
68. Off-label therapy for IPF:Pro con debate. American College of Chest Physicians meeting. Salt Lake City October 2006
69. Stage IV sarcoidosis: from mycetoma to transplant. American College of Chest Physicians meeting. Salt Lake City October 2006
70. IPF:2006 Update. Christ Adventist Medical Center Medical Grand Rounds, Chicago, IL November 2006
71. Session Chair. Evolution of Pulmonary Hypertension: Emerging Diseases and Novel Therapeutics Meeting. National Institutes of Health. December 2006
72. Session Chair. Post-graduate course. Lung Transplantation. American Thoracic Society, May 2007. San Francisco
73. Management of Advanced Lung Disease. Post-graduate course American Thoracic Society, May 2007. San Francisco
74. Therapy for Pulmonary Arterial Hypertension. Pulmonary Hypertension Symposium. Baltimore September 2007.
75. Presentation on Capitol Hill to meeting of Congressmen and staffers about need for more IPF research September 25<sup>th</sup>, 2007.
76. Comorbidities of Advanced Lung Disease. 1<sup>st</sup> Mount Sinai conference on Advanced Lung Disease and Transplantation. NYC, NY September 2007.
77. Pulmonary Hypertension and Interstitial Lung Disease: Implications for pre- peri- and post-transplant management. ACCP Chicago October 2007.
78. Echocardiography as a predictor of Pulmonary Hypertension in Patients with Idiopathic Pulmonary Fibrosis.

Slide presentation ACCP Chicago October 2007.

79. COPD: Beyond bronchodilators. Pennsylvania Respiratory Therapy Annual Conference. Harrisburg, PA November 2007
80. ICU management of the Lung transplant Recipient. Critical Care Division, NIH. December 2007
81. Pulmonary Arterial Hypertension: Who to treat and when. Medical Grand Rounds Washington Hospital Center January 23<sup>rd</sup>, 2008.
82. Lung Transplantation: Who and when to refer. Medical Grand Rounds. St.Vincent's Hospital. Worcester. Massachusetts February 14<sup>th</sup> 2008.
83. Indications for Lung Transplantation in 2008. Pulmonary Grand Rounds. Rhode Island Hospital/Brown University. March 3<sup>rd</sup>, 2008
84. Lung Transplantation: Who and when to refer. Pulmonary Grand Rounds. Georgetown University Hospital March 12<sup>th</sup> 2008
85. Indications for Lung Transplantation in 2008. Medical Grand Rounds. Rhode Island Memorial Hospital. May 7<sup>th</sup>, 2008
86. Pulmonary Hypertension in Interstitial Lung Disease. American Thoracic Society Postgraduate course, Toronto Canada. May 16<sup>th</sup> 2008.
87. Pulmonary Hypertension in IPF. Symposium co-chair and speaker. American Thoracic Society meeting Toronto May 18<sup>th</sup>, 2008.
88. IPF comorbidities. Poster discussion session co-chair. American Thoracic Society meeting Toronto May 18<sup>th</sup>, 2008.
89. Pulmonary Arterial Hypertension; who to treat and when. Medical Grand Rounds. Kaiser, Riverside, CA. August 5<sup>th</sup>, 2008
90. Interstitial lung disease related Pulmonary Hypertension. Pulmonary Grand Rounds. UCLA August 8<sup>th</sup> 2008
91. Pulmonary Hypertension and IPF. Symposium on IPF Comorbidities. Brooklyn Medical Center September 9<sup>th</sup> 2008.
92. Interstitial Lung Disease and Pulmonary Hypertension. Tristate Thoracic Society meeting, Richmond, VA September 27<sup>th</sup>, 2008.
93. Lung Transplantation:2008 update. Tristate Thoracic Society meeting, Richmond, VA September 27<sup>th</sup>, 2008.
94. Concepts and management of idiopathic and secondary pulmonary hypertension. Fairmont General Hospital Grand Rounds, Fairmont, WV October 14<sup>th</sup> 2008.
95. Pulmonary Hypertension: Evolving concepts in Idiopathic and Secondary forms of PAH. American College

of Chest Physicians meeting. October 26<sup>th</sup> 2008. Philadelphia.

96. Session Chair. Interstitial Lung Disease. American College of Chest Physicians meeting. October 27<sup>th</sup> 2008. Philadelphia.
97. Lung Transplantation: Who and When? Pulmonary Grand Rounds, Tufts, Boston, November 5<sup>th</sup>, 2008
98. Pulmonary Hypertension: Who to treat and when? Medical Grand Rounds, George Washington Hospital, March 5<sup>th</sup>, 2009
99. Pulmonary Hypertension: Who to treat, when and then.... Cardiology Grand Rounds. Mary Washington Hospital, Fredericksburg, VA March 19<sup>th</sup> 2009
100. Lung transplantation: Who, when and then... Virginia Association of Cardiac and Pulmonary Rehabilitation conference, March 21<sup>st</sup>, University of Mary Washington, Fredericksburg, VA
101. Pulmonary Hypertension: Who to treat and when? Winchester Medical Center Grand Rounds. April 1<sup>st</sup> 2009
102. Current Concepts in the Management of Advanced Lung Disease. University of Wisconsin Annual Conference: Key Note Speaker, April 10<sup>th</sup>, 2009.
103. Approach to the Treatment of PAH. International Society for Aerosolized Medicine. May 14<sup>th</sup> 2009. Monterey, CA.
104. Lung Transplantation for PAH. Diagnosis and Therapy of PAH: State of the Art. Postgraduate course ATS San Diego May 14<sup>th</sup> 2009.
105. Pre-transplant Management of Advanced Lung Disease. Lung Transplantation: State of the Art. Postgraduate course ATS San Diego May 14<sup>th</sup> 2009.
106. Conservative Management or Vasoactive Therapy for PH Associated with Parenchymal Lung Disease. Controversies in PH Management. Postgraduate course ATS San Diego May 14<sup>th</sup> 2009.
107. Pulmonary Hypertension in Patients with Interstitial Lung Diseases, Interstitial Pneumonia and Sarcoidosis. Meet the Professor session. ATS May 17<sup>th</sup> 2009. San Diego
108. The treatment of Mycetoma. Session on Clinical Problems in Sarcoidosis. ATS May 18<sup>th</sup> 2009. San Diego
109. Session Chair: Controversies in the Management of IPF. ATS meeting May 20<sup>th</sup>, 2009. San Diego
110. Pulmonary Hypertension in IPF: Seek and Treat? Session on Controversies in the Management of IPF. ATS meeting May 20<sup>th</sup>, 2009. San Diego
111. Pulmonary Hypertension: Who to treat and when? Howard University Medical Grand Rounds June 2<sup>nd</sup> 2009
112. Pulmonary Hypertension in COPD and IPF. Annual Yale Pulmonary Hypertension conference, Hartford, CT June 4<sup>th</sup>, 2009

113. Pulmonary Hypertension:Medical and Surgical Treatments. Harley Hinton Lecture Series, Southside Regional Medical Center, Petersburg, VA
114. COPD:Before and beyond bronchodilators. Medical Grand Rounds, Beth Israel Hospital, Newark, NJ, June 18<sup>th</sup> 2009.
115. Pulmonary Hypertension in Interstitial Lung Disease. Mid-West Pulmonary Vascular conference Kansas City, Kansas October 3<sup>rd</sup> 2009
116. Pulmonary Hypertension complicating advanced Pulmonary Fibrosis: To treat or not? Rochester University Pulmonary Grand Rounds. October 7<sup>th</sup>, 2009
117. The Management of Pulmonary Hypertension. Advanced Lung Disease Post-graduate course. American College of Chest Physicians November 1<sup>st</sup> 2009. San Diego
118. IPF and Pulmonary Hypertension. St. Vincent's Hospital, Dublin, Ireland November 26<sup>th</sup> 2009
119. Sarcoidosis and Lung Transplantation. The Mater Hospital, Dublin, Ireland November 27<sup>th</sup> 2009
120. Pulmonary Arterial Hypertension and Lung Transplantation. Annual Tufts Pulmonary Hypertension Conference, Boston MA, Dec 4<sup>th</sup>, 2009
121. Interstitial Lung Disease in Connective Tissue Disorders. Update in Pulmonary and Critical Care conference. Cleveland Clinics, Branton, FL. Dec 5<sup>th</sup>, 2009
122. Interstitial lung disease and Pulmonary Hypertension. PH conference, Cincinnati, OH. April 10<sup>th</sup>, 2010
123. Lung Transplantation for Pulmonary Hypertension. PH conference, Cincinnati, OH. April 10<sup>th</sup>, 2010
124. Diagnosis and Treatment of Pulmonary Hypertension in Interstitial Lung Disease. Post-graduate course ATS New Orleans May 14<sup>th</sup>, 2010
125. Comorbidities In Patients With IPF: Does It Make A Difference To Screen And Treat? ATS New Orleans May 17<sup>th</sup>, 2010
126. Session Co-Chair. Idiopathic Pulmonary Fibrosis: New Guidelines, Latest Discoveries and Implications. May 17<sup>th</sup> 2010. ATS New Orleans
127. Pulmonary Arterial Hypertension:2010 Update. Howard Medical Grand Rounds. June 22<sup>nd</sup>, 2010
128. IPF: need for more research funding. IPF awareness week, presentation at the Capitol, Washington DC September 14, 2010.
129. Idiopathic Pulmonary Fibrosis:2010 Update. Keynote speaker at Kjeldgaard Symposium, Maine Medical Center, Portland, ME. September 29,2010.
130. Advanced Lung Disease: A comprehensive approach. Symposium on Advanced Lung Disease. American College of Chest Physicians meeting, October 30<sup>th</sup>, 2010. Vancouver, Canada.

131. Should I treat this IPF patient's pulmonary hypertension? American College of Chest Physicians meeting. November 1<sup>st</sup>, 2010. Vancouver, Canada.
132. The effects of Curcumen on IPF fibroblasts. American College of Chest Physicians meeting. November 2<sup>nd</sup>, 2010. Vancouver, Canada.
133. Should pulmonary hypertension in IPF be treated? American College of Chest Physicians meeting, November 2<sup>nd</sup>, 2010. Vancouver, Canada.
134. Pulmonary Hypertension and diffuse parenchymal lung disease. 15<sup>th</sup> Annual Pulmonary Conference, St. Luke's Hospital, Chesterfield, Missouri. November 4<sup>th</sup>, 2010.
135. Pulmonary Arterial Hypertension: 2010 Update. Eastern Virginia Medical School Medical Grand Rounds, December 15<sup>th</sup>, 20101. Norfolk, VA.
136. IPF update 2011. Inova Fairfax Medical Grand Rounds February 15<sup>th</sup>, 2011
137. Parenchymal Pumonary Hypertension: Brown University, Pulmonary Research Conference, February 28<sup>th</sup>, 2011.
138. Scleroderma as a cause of Advanced Lung Disease: International Society for Heart and Lung Transplantation April 14<sup>th</sup> 2011. San Diego, CA.
139. Pulmonary Hypertension in ILD: Should we treat? International Society for Heart and Lung Transplantation April 16<sup>th</sup> 2011. San Diego, CA.
140. Management of Advanced Lung Disease. Post-graduate symposium at the American Thoracic Society, Denver CA. May 13<sup>th</sup> 2011
141. Parenchymal Pulmonary Hypertension. Meet the Professor American Thoracic Society, Denver CA. May 15<sup>th</sup> 2011
142. Moderator for PAH conference, Falls Church VA September 9<sup>th</sup>, 2011
143. Lung Transplantation for Hermansky Pudlak Pulmonary Fibrosis. NIH workshop September 16<sup>th</sup>, 2011.
144. Pulmonary Hypertension Research. Pulmonary conference, Albany Medical Center, NY. September 27<sup>th</sup>, 2011.
145. Idiopathic Pulmonary Fibrosis. Medical Grand Rounds, Straub Hospital, Honolulu, HI October 21<sup>st</sup>,2011
146. Advanced Lung Disease: Why a Comprehensive Approach? Post-graduate course, American College of Chest Physicians conference, Honolulu, HI. October 22<sup>nd</sup>, 2011.
147. Pulmonary Hypertension and Lung Disease. Post-graduate course, American College of Chest Physicians conference, Honolulu, HI. October 22<sup>nd</sup>, 2011.

148. How to start a Pulmonary Hypertension Program. Sunrise Seminar, Post-graduate course, American College of Chest Physicians conference, Honolulu, HI. October 23<sup>rd</sup>, 2011.
149. Pulmonary Hypertension: The Pressure to Treat. Inova Fairfax Hospital Medical Grand Rounds. November 8<sup>th</sup>, 2011.
150. Lung Transplantation: Who, when and what to expect. Pulmonary grand rounds. Thomas Jefferson, Philadelphia, PA. November 16<sup>th</sup>, 2011
151. Pulmonary Hypertension: The Pressure to Treat. American College of Cardiology, Virginia Chapter Annual meeting, Charlottesville, VA. November 19<sup>th</sup>, 2011.
152. Lung Transplantation: Who, when, how and what to expect. Inova Fairfax Hospital Surgery Grand Rounds March 20<sup>th</sup>, 2012.
153. Idiopathic Pulmonary Fibrosis:2012 Update. Medical Grand Rounds, Stony Brook, NY April 4<sup>th</sup>, 2012
154. Parenchymal Pulmonary Hypertension. Pulmonary Grand Rounds, Stony Brook, NY April 4<sup>th</sup>, 2012
155. IPF and PH. 2<sup>nd</sup> annual Alfred P. Fishman conference. University of Pennsylvania. April 14<sup>th</sup>, 2012
156. Interstitial Lung Disease and Pulmonary Arterial Hypertension; Diagnosis and Management in Connective Tissue Disease patients. 5<sup>th</sup> Annual Perspectives in Rheumatic Diseases. September 29<sup>th</sup>, 2012. Newport Beach, CA.
157. Advanced Lung Disease: Why a Comprehensive Approach? Post-graduate Course. American College of Chest Physicians. Atlanta October 20<sup>th</sup>, 2012.
158. Interstitial Lung Disease Update. Fellow Conference, American College of Chest Physicians. Atlanta October 20<sup>th</sup>, 2012.
159. Chairperson Symposium, IPF Update: Bench to bedside. American College of Chest Physicians. Atlanta October 22nd, 2012.
160. IPF Comorbidities. IPF Symposium. American College of Chest Physicians. Atlanta October 22nd, 2012.
161. Diagnosis and Management of Sarcoidosis related Pulmonary Hypertension. American College of Chest Physicians. Atlanta October 23<sup>rd</sup>, 2012
162. Clinical Trials and Endpoints: What Can We Learn From Other Disease States? Perspectives in PAH Symposium. American College of Chest Physicians. Atlanta October 23<sup>rd</sup>, 2012
163. Interstitial Lung Disease Update: Inova Fairfax Hospital medical grand rounds January 8<sup>th</sup>, 2013.
164. Coronary artery disease in IPF. American Thoracic Society meeting Philadelphia May 22nd, 2013
165. Chairperson conference on Pathophysiology and treatment of IPF. ATS Philadelphia May 21<sup>st</sup>, 2013

166. Pathophysiology and appropriate treatment approaches in IPF. ATS Philadelphia May 21<sup>st</sup>, 2013
167. Co-chairperson. Interstitial lung disease poster discussion session, ATS May 19<sup>th</sup>, 2013
168. Interstitial Lung Disease:2013 update. Howard University Medical Grand Rounds May 28<sup>th</sup>, 2013
169. Pulmonary Hypertension: the pressure to treat. George Washington University Hospital. Cardiology Grand Rounds May 29<sup>th</sup>, 2013.
170. IPF: where are we today? Medical Grand Rounds. George Washington University Hospital August 22<sup>nd</sup>, 2013
171. Parenchymal Pulmonary Hypertension. The John W. Middleton Lecture Series. UTMB, Galveston, TX 8/29/2013
172. The Trouble with Diagnosing IPF. Medical Grand Rounds UTMB, Galveston, TX 8/29/2013
173. Interstitial Lung Disease Update. Fellow Conference, American College of Chest Physicians. Chicago October 26<sup>th</sup>, 2013
174. Pulmonary Hypertension in IPF. American College of Chest Physicians. Chicago October 27<sup>th</sup>, 2013.
175. IPF: small case conference. American College of Chest Physicians Chicago October 28<sup>th</sup>, 2013.
176. Lung Transplantation for IPF: who, when and what to expect. American College of Chest Physicians. Chicago October 29<sup>th</sup>, 2013
177. Pulmonary Hypertension: 2014 update. New York Thoracic Society meeting, NYC, NY Feb 1<sup>st</sup>, 2014
178. Interstitial lung disease: 2014 Update. Medical Grand Rounds, Washington DC VA Hospital. February 12<sup>th</sup>, 2014
179. Scleroderma: PAH with ILD versus ILD and PH? International Society for Heart and Lung Transplantation meeting. San Diego April 10<sup>th</sup>, 2014.
180. Clinical trial design in non-Group I Pulmonary Hypertension. American Thoracic Society May 20<sup>th</sup> 2014 San Diego.
181. Pulmonary Hypertension with other Lung Diseases: treatment implications American Thoracic Society May 21st 2014 San Diego.
182. IPF 2014 update; Why this year it is different. Medical Grand Rounds, Inova Fairfax Hospital August 19<sup>th</sup>, 2014.
183. Pulmonary Hypertension in IPF: Target to treat or epiphomenon? World Association for Sarcoidosis and other Granulomatous Diseases (WASOG) conference Kusadasi, Turkey October 11<sup>th</sup>, 2014.
184. WHO Group 3 Pulmonary Hypertension: Incidence, pathogenesis and assessment. Pulmonary Hypertension

Society of Australia and New Zealand annual meeting October 17<sup>th</sup>, 2014. Noosa, QLD, Australia.

185. Evidence for Therapy in group 3 Pulmonary Hypertension. Pulmonary Hypertension Society of Australia and New Zealand annual meeting October 17<sup>th</sup>, 2014. Noosa, QLD, Australia.
186. Interstitial Lung Disease: Treatment Update. Fellow Conference, American College of Chest Physicians. Austin, Texas October 25th, 2014
187. IPF State of the Art Evaluation and Management: Comorbidities in IPF American College of Chest Physicians. Austin, Texas October 27th, 2014
188. Pharmacotherapy of IPF: Present and Future Therapies and Clinical Trials. American College of Chest Physicians. Austin, Texas October 27th, 2014
189. IPF 2014: why it's different this year. Orhan Muran visiting Professorship & Lecture. Virginia Commonwealth University, Department of Medicine Grand Rounds. Richmond, VA December 11<sup>th</sup>, 2014.
190. A New Era in IPF: Trials and Treatment. Medical Grand Rounds. Winchester December 17<sup>th</sup>, 2014
191. Pulmonary Fibrosis Identification: Lessons for Optimizing Treatment. Pulmonary Grand Rounds. University of Connecticut. January 30<sup>th</sup>, 2015.
192. Navigating the New Era in IPF: Comorbidities and Complications. Lankenau Medical Center, PA. March 19<sup>th</sup>, 2015
193. PAH Update: Who, what and how? Inova Pulmonary Conference March 20<sup>th</sup>, 2015
194. When to treat PH in association with IPF. International Society for Heart and Lung Transplantation, Nice, France. April 15<sup>th</sup>, 2015.
195. Pulmonary hypertension in Lung Disease. 10<sup>th</sup> annual Bayer Pulmonary Hypertension Symposium, Berlin, Germany April 25<sup>th</sup>, 2015
196. Idiopathic Pulmonary Fibrosis: whys it's different this year. Tufts Medical Center Pulmonary Grand Rounds, Boston MA 4/30/2015.
197. Idiopathic Pulmonary Fibrosis in Evolution: Proactive Recognition, Early Diagnosis, and an Advancing Standard of Care. Chairperson Symposium. American College of Physicians 4/30/2015. Boston, MA.
198. Group 3 Pulmonary Hypertension. Pulmonary Grand Rounds. National Jewish Hospital, Denver, CO. May 5<sup>th</sup> 2015
199. Medical Therapy for Group 3 PH: Could you, should you, how would you? ATS Symposium May 20<sup>th</sup>, 2015. Denver, CO.
200. Sarcoidosis-associated Pulmonary Hypertension. World Association for Sarcoidosis and other Granulomatous Diseases. Sao Paulo, Brazil June 6<sup>th</sup>, 2015.

201. Pulmonary Hypertension in Interstitial Lung Disease. Kansas University Medical Center. Medical Grand Rounds August 19<sup>th</sup>, 2015.
202. Benefit of continued pirfenidone treatment following hospitalisation within the first 6 months of treatment—ad hoc analysis from three Phase 3 trials in patients with idiopathic pulmonary fibrosis. Podium presentation at European Respiratory Society meeting, Amsterdam September 29<sup>th</sup>, 2015.
203. Effect of Pirfenidone (PFD) on Treatment-emergent (TE) All-cause Mortality (ACM) in Patients with Idiopathic Pulmonary Fibrosis (IPF): Pooled Analysis of Data from ASCEND and CAPACITY. Podium presentation at European Respiratory Society meeting, Amsterdam September 29th, 2015.
204. Chairperson session on Pulmonary Hypertension in ILD at American College of Chest Physicians October 27th, 2015. Montreal Canada.
205. Pulmonary Hypertension in ILD. American College of Chest Physicians October 27<sup>th</sup>, 2015. Montreal Canada.
206. Pulmonary Hypertension in Sarcoidosis. Tulane Sarcoidosis Conference. New Orleans Feb 27<sup>th</sup>, 2016.
207. Are PH specific medications beneficial in PH-ILD? International Society for Heart and Lung Transplantation, Washington DC. April 27<sup>th</sup>, 2016.
208. New Therapeutic Strategies for IPF. Brazilian Thoracic Society meeting. Rio de Janeiro October 12<sup>th</sup>, 2016.
209. Breakthroughs in IPF management: The Next Steps in Individualizing Treatment. Medical Grand Rounds University of Maryland medical center midtown campus. October 21<sup>st</sup>, 2016.
210. Clinical overview and clinical landscape of lung disease in Rheumatology. Keynote speaker American College of Rheumatology November 11<sup>th</sup> 2016 Washington DC.
211. Idiopathic Pulmonary Fibrosis. Oman Thoracic Society meeting. Muscat, Oman January 12<sup>th</sup>, 2017
212. Management of non-IPF ILD. Oman Thoracic Society meeting. Muscat, Oman January 12th, 2017
213. Comorbidities in IPF. Idiopathic Pulmonary Fibrosis Forum, Riyadh, Saudi Arabia Feb 24<sup>th</sup>, 2017.
214. Pirfenidone for IPF: Analysis of pooled data. Idiopathic Pulmonary Fibrosis Forum, Riyadh, Saudi Arabia Feb 24<sup>th</sup>, 2017.
215. Pulmonary Hypertension in Lung Disease: treatment debate (con). American College of Cardiology March 17<sup>th</sup>, 2016. Washington DC
216. The role of lung biopsy in interstitial lung disease. Australian New Zealand Thoracic Society meeting. Canberra, Australia March 27<sup>th</sup>, 2017.
217. Pulmonary Hypertension in Lung Disease: treatment debate (pro). International Society for Heart and Lung Transplantation April 7th, 2016. San Diego CA (SN)

218. Keynote presentation: Advances in interstitial lung disease and IPF. VCU Health Advances in Pulmonary Disease conference. Richmond, VA 4/29/2017.
219. Pulmonary Hypertension in the setting of Lung Disease: Incidence, pathogenesis and Assessment. Annual Yale Pulmonary Hypertension conference. June 2<sup>nd</sup>, 2017
220. Pulmonary Hypertension in Lung Disease: To tweet or not to tweet? Annual Yale Pulmonary Hypertension conference. June 2<sup>nd</sup>, 2017
221. Uncommon Causes of Dyspnea: horses and zebras. Louisiana Academy of Family Physicians Annual meeting New Orleans, August 4<sup>th</sup>, 2017.
222. Riociguat for the treatment of pulmonary hypertension associated with idiopathic interstitial pneumonia. Podium presentation European Respiratory Society September 11<sup>th</sup>, 2017 Milan, Italy
223. Incidence of multiple progression events in patients with IPF in the pooled CAPACITY and ASCEND Phase III trials. Podium presentation European Respiratory Society September 12th, 2017 Milan, Italy
224. Pulmonary Hypertension complicating Interstitial Lung Disease. World Association for Sarcoidosis and Other Granulomatous Disease annual meeting. Beijing, China October 21<sup>st</sup>, 2018.
225. Treatment of Pulmonary Fibrosis. 1st Fellow Symposium on Advanced Lung Disease. American College of Chest Physicians meeting. Toronto Canada October 28<sup>th</sup>, 2017.
226. Treatment of IPF in the era of antifibrotics. 2<sup>nd</sup> Annual Portuguese IPF meeting. Averio, Portugal December 16<sup>th</sup>, 2017.
227. IPF Pathogenesis: A Clinicians Perspective. Turkish Thoracic Society meeting, January 13th, 2018.
228. Pulmonary Hypertension due to Lung Disease. World Symposium on Pulmonary Hypertension Nice, France March 1<sup>st</sup> 2018.
229. What do we really do with PH in lung disease?-pro/con debate ATS post-graduate symposium May 18<sup>th</sup>, 2018, San Diego.
230. Complicated Pulmonary Sarcoidosis. ATS post-graduate symposium May 18<sup>th</sup>, 2018, San Diego.
231. Group 2 and 3 pulmonary hypertension. Meet the Professor ATS San Diego May 22<sup>nd</sup>, 2018
232. IPF and Other ILDs: At the Crossroads of Current Clinical Challenges and Emerging Therapeutic Strategies. AYTS CME conference May 22<sup>nd</sup>, 2018.
233. Lung Transplantation for IPF. UCSD Fellows Conference June 5<sup>th</sup>, 2018

## Abstracts

1. **Nathan SD**, Lien TC, Belman MJ: Characteristics of the Ventilatory Load During Ventilatory Muscle Training. American Review of Respiratory Diseases 1991; 143:4; A81
2. Ishaaya A, **Nathan S**, Koerner S, Belman M: Accuracy of Work of Breathing Prediction with Pressure Support Ventilation During Weaning. American Review of Respiratory Diseases 1992; 145:4; A518
3. Ishaaya A, **Nathan S**, Belman M, Work of Breathing in the Immediate Post Extubation Period. American Review of Respiratory Diseases 1993; 147:4; 875
4. **Nathan SD**, Ross D, Zakowski P, Kass RM, Koerner SK: Inhaled Pentamidine Prophylaxis in Lung Transplant Recipients. American Review of Respiratory Diseases 1993; 147:4; A600
5. Ross DJ, Yeh A, **Nathan SD**, Toyoda M, Galera O, Marchevsky M, Kass R, Koerner SK, Jordan S: Differential IL-2R levels in Bilateral Bronchoalveolar Lavage after Single Lung Transplantation. American Review of Respiratory Diseases 1993; 147:4; A197
6. Ross DJ, Belman M, Mohsenifar Z, **Nathan SD**, Kass R, Koerner SK: Maximum Inspiratory and Expiratory Flow-Volume Loop Contours after Lung Transplantation. American Review of Respiratory Diseases 1993; 147:4; A335
7. Botnick W, **Nathan SD**, Chon K, Belman M: The Characteristics of the Inspiratory Load on the Ventilatory Muscles During Ventilatory Muscle Training. American Review of Respiratory Diseases 1993; 147:4; A745
8. **Nathan SD**, Goldstein N, Messier G, Kass RM, Koerner SK, Ross DJ, Late Alveolitis May be Associated with Irreversible Loss of Lung Function in Lung Transplant Recipients. Journal of Heart and Lung Transplantation 1994; 13:S40
9. Goldstein N, **Nathan S**, Messler G, An C, Ross Marchevsky A. Focal Acute Alveolitis in Lung Transplant Patients. Modern Pathology 1994 7; 1:150A
10. **Nathan SD**, Ross DJ, Belman MJ, Kass RM, Elashoff J, Koerner SK. Patterns of Progression of Bronchiolitis Obliterans in Single Lung Transplant Recipients. Am J Respir Crit Care Med 1994; 149:A743
11. Hsu NY, Kass RM, **Nathan S**, Ross D, Blanche C, Tsai T, Matloff J. Single Lung Transplantation for Pulmonary Hypertension (oral presentation at the American Society of Transplant Surgeons, 1994)
12. **Nathan SD**, Osborne C, Fairman RP, Guiraty A, Lung Disease Spectrum Referred for Transplantation within the VA System. Am J Respir Crit Care Med 1995; 151:A85
13. Hoo H, **Nathan S**, Akosah K, Bechard D. Correlation of V02 Max with Indices of Cardiac Function in Heart Transplant Candidates. Am J Respir Crit Care Med 1996; 153; A827
14. Puryear D, **Nathan S**, Bechard D. Exercise Physiologic Profiles of SCI Patients on the Wheelchair Arm Fitness Trainer. Am J Respir Crit Care Med 1996; 153; A651
15. Brath LK, **Nathan SD**, Moskowitz WB, Guerraty A, Fairman RP, Late Pulmonary Artery Stenosis after

Lung Transplantation. Am J Respir Crit Care Med 1996; 153; A264

16. Tisnado J, Wilkinson DL, **Nathan SD**, Moses L, Spinos E. Placement of Metallic Stents in the Tracheobronchial Tree: Preliminary Experience. Am J Roent 1996; 166:203?
23. **Nathan SD**, Shorr AF, Schmidt ME, Burton NA. Aspergillus Isolation Predicts Airway Complications in Lung Transplant Recipients. Am J Respir Crit Care Med 2000; 161:A368.
24. Weiner MS, **Nathan S**. Lung Torsion with a Twist. Chest 2001;120;4(Suppl):352S
25. Kelly WF, **Nathan S**, Sanghani S, Burton N. Significance or Early Bronchoscopic Airway Abnormalities after Lung Transplantation. Chest 2001;120;4(Suppl):206S
26. **Nathan SD**, Barnett SD, Wohlrab J, Burton N. Retrospective Validation of BOS-P as a Predictor of BOS in Single Lung Transplant Recipients. J Heart Lung Transplant 2002 ;21:76S
27. **Nathan S**, Barnett S, Nowalk C, Moran B, Burton N. Risk of Pulmonary Thromboembolism in IPF Patients Post-Transplant. Am J Respir Crit Care Med 2002; 165; B12
28. Wohlrab J, Barnett S, **Nathan S**. Is FEF25-75% Reliable for Predicting Bronchiolitis Obliterans Syndrome in Single Lung Transplant Patients with COPD? Am J Respir Crit Care Med 2002; 165; A404
29. Shorr AF, Davies DB, **Nathan SD**. Outcomes for Patients with Sarcoidosis Awaiting Lung Transplantation. Am J Respir Crit Care Med 2002; 165; A404
30. Nicholson KL, Helman DL, Barnett SD, Moran BR, **Nathan SD**. Effect of Interferon Gamma on Rates of Change of Lung Function in Idiopathic Pulmonary Fibrosis. Chest 2002;122:47S
31. Shorr AF, Davies DB, **Nathan SD**. Predicting Mortality in Patients with Sarcoidosis Awaiting Lung Transplantation. Chest 2002;122:75S
32. Connors G, Lamberti J, Yacoub M, Fereday J, Lowry L, Hess S, Williams A, Malinowski T, Ahmad S, Barnett S, **Nathan S**. Comparison of Utility of Pulmonary Rehabilitation Exercise Conditioning in IPF versus COPD Lung Transplant Recipients. AACVPR 2002.
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