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Dr. Rajeev Saggar, MD, QME
Board Certified in Internal Medicine

Articulate, Board certified Internal Medicine Physician with more than 20 years of clinical expertise and 1 year of medical-legal expertise. Highly specialized in Internal Medicine and Pulmonary, Heart, and Lungs.

EDUCATION

- **University of California, Irvine, CA (1997)**
Bachelor of Science, Biology
- **University of California Irvine School of Medicine, Irvine, CA (2002)**
Doctor of Medicine, MD
- **University of California Irvine School of Medicine, Irvine, CA (2003)**
Internship – Internal Medicine
- **University of California Irvine School of Medicine, Irvine, CA (2005)**
Residency – Internal Medicine
- **University of California Irvine School of Medicine, Irvine, CA (2008)**
Postdoctoral Training: Pulmonary Sciences and Critical Care Medicine
- **Sulpizio Cardiovascular Center at University of California San Diego, CA (2007)**
Postdoctoral Training: Pulmonary Hypertension Sub-Fellowship
- **Ronald Reagan Medical Center at University of California Los Angeles, CA (2008)**
Postdoctoral Training: Heart-Lung & Lung Transplant

PROFESSIONAL EXPERIENCE

- **Evolung, LLC and Lung Biotechnology, General Manager (2013 to 2014)**
- **Theravance Biopharma, Medical Director (2020)**
- **Theravance Biopharma, Senior Medical Director (2020 to 2021)**
- **Theravance Biopharma, VP Clinical Sciences (2020 to present)**

ACADEMIC APPOINTMENTS

- Ronald Reagan Medical Center at UCLA, Clinical Instructor (2008 to 2011)
- Norton Thoracic Institute, Assistant Professor (2011 to 2013)
- University of Arizona College of Medicine, Associate Professor (2016 to 2019)

LICENSURE AND CERTIFICATION

- American Board of Internal Medicine
- Arizona Board Certified Medical License
- California Board Certified Medical License
- Diplomate in Pulmonary Medicine
- Diplomate in Critical Care Medicine

PROFESSIONAL MEMBERSHIPS

- American College of Chest Physicians
- American Thoracic Society
- International Society of Heart and Lung Transplantation
- Pulmonary Hypertension Association
- World Symposium Pulmonary Hypertension Committee

RESEARCH & PUBLICATIONS

1. Saremi F, Ashikyan O, **Saggar R**, Vu J, Nunez ME. Utility of cardiac MRI for diagnosis and post-treatment follow-up of lupus myocarditis. *Int'l Cardiovasc Imaging* 2007; 23(3); 347-52
2. Zisman DA, Karlamangla AS, Kawut SM, Shlobin OA, **Saggar R**, Ross DJ, Schwarz MI, Belperio JA, Ardehali A, Lynch JP 3rd, Nathan SD. Validation of a method to screen for pulmonary hypertension in advanced idiopathic pulmonary fibrosis. *Chest* 2008;133(3):640-5.
3. Saggar R, Ross DJ, **Saggar R**, Zisman DA, Gregson A, Lynch III JP, Keane MP, Weigt SS, Ardehali A, Kubak B, Lai C, Elashoff D, Fishbein MC, Wallace WD, Belperio JA. Pulmonary Hypertension Associated with Lung Transplantation Obliterative Bronchiolitis and Vascular Remodeling Of The Allograft. *Am J Transplant* 2008;8(9):1921-30.

4. Nathan SD, Shlobin OA, Barnett SD, **Saggar R**, Belperio JA, Ross DJ, Ahmad S, Saggar R, Libre E, Lynch JP, Zisman DA. Right ventricular systolic pressure by echocardiography as a predictor of pulmonary hypertension in idiopathic pulmonary fibrosis. *Resp Med* 2008; 102(9): 1305-10.
5. Weigt SS, Elashoff RM, Huang C, Ardehali A, Gregson AL, Kubak B, Fishbein MC, Saggar R, Keane MP, **Saggar R**, Lynch III JP, Zisman DA, Ross DJ, Belperio JA. Aspergillus Colonization of the Lung Allograft is a Risk Factor for Bronchiolitis Obliterans Syndrome. *Am J Transplant* 2009;9(8):1903-11.
6. Saggar R, Saggar R, Aboulhosn J, Belperio JA, Zisman DA, Lynch JP III. Diagnosis and Hemodynamic Assessment of Pulmonary Arterial Hypertension. *Semin Respir Crit Care Med*. 2009;(30)4:399-410.
7. **Saggar R**, Shapiro SS, Ross DJ, Fishbein MC, Zisman DA, Lynch JP, Saggar R. Treprostinil to Reverse Pulmonary Hypertension Associated with Idiopathic Pulmonary Fibrosis As A Bridge To Single Lung Transplantation. *J Heart Lung Transplant* 2009;28(9):964-7
8. Wang TF, Wang T, Altman R, Eshaghian P, Lynch III JP, Ross DJ, Belperio JA, Weigt SS, **Saggar R**, Gregson AL, Kubak B, Saggar R. Periostitis Secondary to Prolonged Voriconazole Therapy In Lung Transplant Recipients. *American Journal of Tranplant* 2009 Dec; 9(12):2845-50.
9. **Saggar R**, Khanna D. Identifying and Managing Pulmonary Arterial Hypertension. *Journal of Musculoskeletal Medicine*. 2009 Nov;26(11): 3-8
10. Gregson AL, Hoji A, Palchevskiy V, Hu S, Weigt Ss, Liao E, Derhovanessian A, **Saggar R**, Song S, Elashoff R, Yang OO, Belperio JA. Protection Against Bronchiolitis Obliterans Syndrome is Associated with Allograft CCR7+ CD45RA-T Regulatory Cells. *PLoS One*. 2010 Jun 29;5(6):e11354
11. **Saggar R**, Khanna D, Furst DE, Shapiro S, Maranian P, Belperio JA, Chauhan N, Clements P, Gorn A, Weigt SS, Ross D, Lynch JP 3rd, Saggar R. Exercise Pulmonary Hypertension Associated with Systemic Sclerosis: Four Distinct Entities. *Arthritis Rheum*. 2010 Aug 18 [Epub ahead of print]
12. Lee C, Suh RD, Krishnam MS, Lai CK, Fishbein MC, Wallace WD, Chen A, **Saggar R**, **Saggar R**, Belperio JA, Ardehali A, Ross DJ. Recurrent Pulmonary Capillary Hemangiomas after Bilateral Lung Transplantation. *J Thoracic Imaging*. 2010 Aug; 25(3):W89-92
13. **Saggar R**, Khanna D, Furst DE, Belperio JA, Park GS, Weigt SS, Kubak B, Ardehali A, Derhovanessian A, Clements PJ, Shapiro S, Hunter C, Gregson A, Fishbein MC, Lynch JP, Ross DJ, Saggar R. Systemic Sclerosis and Bilateral Lung Transplantation: A Single Centre Experience. *Eur Respir J*. 2010 Oct;36(4):893-900
14. Huang HC, Weigt SS, Derhovanessian A, Palchevskiy, Ardehali A, Saggar R, **Saggar R**, Kubak B, Gregson A, Lynch JP 3rd, Elashoff R, Belperio JA. Non-Tuberculosis Mycobacterium Infection After Lung Transplantation is Associated with Increased Mortality. *J Heart Lung Transplant* 2011 Jul;30(7)790-8

15. Khanna D, Tseng CH, Farmani N, Steen V, Furst DE, Clements PH, Roth M, Goldin J, Elashoff R, Seibold JR, **Saggar R**, Tashkin DP. Clinical Course of Lung Physiology in Patients with Scleroderma and Interstitial Lung Disease: Analysis of the Scleroderma Lung Study Placebo Group. *Arthritis Rheum* 2011 Oct;63(10):3078-85
16. Sherman W, Rabkin DG, Ross D, **Saggar R**, Lynch JP 3rd, Belperio JA, Saggar R, Hamilton M, Ardehali A. Lung Transplant and Coronary Disease. *Ann Thorac Surg*. 2011 Jul 92(1):303-8
17. Khanna D*, **Saggar R***, Mayes MD, Abtin F, Clements PJ, Maranian P, Assassi S, Saggar R, Singh RR, Furst DE. Open-label Pilot Trial of Imatinib Mesylate (Gleevec) in the Treatment of Systemic Sclerosis-Associated Active Interstitial Lung Disease (SSc-ILD). *Arthritis Rheum* 2011 Oct;63(10):3078-85
18. Divekar AA, Khanna D, Abtin F, Maranian P, **Saggar R**, Saggar R, Furst DE, Singh RR. Treatment with Imatinib Results in Reduced IL-4 Producing T cells, but Increased CD4(+) T cells in Broncho-alveolar Lavage of Patients with Systemic Sclerosis. *Clin Immunol* 2011 Dec;141(3):293-303
19. Umar S, Lee JH, de Lange E, Iorga A, Partow-Navid R, Bapat A, van der Laare A, Saggar R, **Saggar R**, Ypey DL, Karaguezian HS, Eghbali M. Spontaneous Ventricular Fibrillation in Right Venntricular Failure Secondary to Chronic Pulmonary Hypertension. *Circ Arryth Electrophysiol*. 2012 Feb;5(1):181-90
20. Bae S*, **Saggar R***, Bolster MB, Chung L, Csuka ME, Derk C, Domsic R, Fischer A, Frech T, Goldberg A, Hinchcliff M, Hsu V, Hummers L, Schiopu E, Mayes MD, McLaughlin V, Molitor J, Naz N, Furst DE, Maranian P, Steen V, Khanna D. Baseline Characteristics and Follow-up in Patients with Normal Hemodynamics versus Boderline Mean Pulmonary Artery Pressure in Systemic Sclerosis: Results from the PHAROS Registry. *Ann Rheum Dis*. 2012 Feb 2
21. **Saggar R**, Lewis GD, Systrom DM, Champion HC, Naeije R, Saggar R. Pulmonary Vascular Responses to Exercise: A Hemodynamic Observation. *Eur Respir J* 2012 Feb;39(2):231-4
22. Weigt SS, Derhovanessian A, Liao E, Hu S, Gregson AL, Kubak BM, Saggar R, **Saggar R**, Plachevskly V, Fishbein MC, Lynch JP 3rd, Ardehali A, Ross DJ, Wang HJ, Elashoff RM, Belperio JA. CXCR3 Chemokine Ligands During Respiratory Viral Infections Predict Allograft Dysfunction. *Am J Transplant* 2012 Feb;12(2):477-84
23. **Saggar R**, Khanna D, Furst DE, Shapiro S, Belperio JA, Clements P, Saggar R. Exercise Induced Pulmonary Hypertension in Systemic Sclerosis and Treatment with Ambrisentan: A Prospective Single Center, Open Label, Pilot Study. *Arthritis Rheum* 2012 Dec;64(12):4072-7
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Adenosine Triphosphate Production in Activated Lymphocytes. *J Heart Lung Transplant* 2012 Sep;31(9): 996-1002

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32. Gomeberg-Maitland M, Bull TM, **Saggar R**, Barst RJ, Elgazayerly A, Fleming TR, Grimminger F, Rainsio M, Stewart DJ, Stockbridge N, Ventura C, Ghofrani AH, Rubin LJ. *J Am Coll Cardiol*. 2013 Dec 24;62(25 Suppl): D82-91
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34. Volkman, E, **Saggar R**, Khanna D, Torres B, Flora A, Yoder L, Clements P, Elashoff R, Ross DJ, Agrawal H, Borazan N, Furst DE, Saggar R. Improved Transplant-Free Survival in Patients with Systemic

Sclerosis-Associated Pulmonary Hypertension and Interstitial Lung Disease. *Arthritis Rheumatol.* 2014 Jul;66(7):1900-8

35. **Saggar, R**, Khanna D, Forfia PR, Saggar R. Il Buono, Il Brutto, Il Cattivo. *Thorax* 2014 Sep;69(9): 871-2
36. Bertero T, Lu Y, Annis S, Hale A, **Saggar R**, Saggar R, Cahn SY. Systems-level regulation of microRNA networks by miR- 130/301 promotes pulmonary hypertension. *J. Clinical Invest.* 2014 Aug;124(8): 3514-28
37. White K, Lu Y, Annis S, Hale AE, Chau BN, **Saggar R**, Saggar Chan SY. Genetic and Hypoxic Alterations of microRNA-210-ISCU1/2 Axis Promote Iron-Sulfur Deficiency and Pulmonary Hypertension. *EMBO Mol Med* 2015 Mar 30;7(6)
38. Tarabichi Y, **Saggar R**, Wallace WD, Lynch JP, Saggar R. Primary Disease Recurrence After Single Lung Transplantation in a Patient with Prior Hard Metal Exposure. *J Heart Lung Transpl* 2015 Sep;34(9): 1216-8
39. Bertero T, Cottrill KA, Lu Y, Haeger CM, Dieffenbach P, Annis S, Hale A, Bhat B, Kaimal V, Zhang YY, Graham BB, Kumar R, Saggar R, **Saggar R**, Wallace WD, Ross DJ, Black SM, Fratz S, Fineman JR, Vargas SO, Haley KJ, Waxman AB, Chau BN, Fredenburgh LE, Chan SY. Matrix Remodeling Promotes Pulmonary Hypertension through Feedback Mechanoactivation of the YAP/TAZ-miR-130/301 Circuit. *Cell Rep.* 2015 Nov 3; 13(5):1016-32
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41. Suzuki T, Lyon A, **Saggar R**, Heaney LM, Aizawa K, Cirradini A, Mauro C, Citro R, Limongelli G, Ferrara F, Vríz O, Morley- Smith A, Calabro P, Bossone E. Editor's Choice-Biomarkers of Acute Cardiovascular and Pulmonary Disease. *Eur Heart J Acute Cardiovasc Care.* 2016 Sep; 5(5): 416-33
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43. Bertero T, Oldham WM, Cottrill KA, Pisano S, Vanderpool RR, Yu Q, Zhao J, Tai Y, Tang Y, Zhang YY, Rehman S, Sugahara M, Qi Z, Gorcsan J 3rd, Vargas SO, Saggar R, **Saggar R**, Wallace WD, Ross DJ, Haley KJ, Waxman AB, Parikh VN, De Marco T, Hsue PY, Morris A, Simon MA, Norris KA, Gaggioli C, Loscalzo J, Fessel J, Chan SY. Vascular Stiffness Mechanoactivates YAP/TAZ-Dependent Glutaminolysis to Drive Pulmonary Hypertension. *J Clin Invest.* 2016 Sep 1;126(9):3313-35

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45. Kovacs G, Herve P, Barbera JA, Chaouat A, Chemla D, Condliffe R, Garcia G, Grunig E, Howard L, Humbert M, Lau E, Laveneziana P, Lewis GD, Naeije R, Peacock A, Rosenkranz S, **Saggar R**, Ulrich S, Vizza D, Vonk Noordegraaf A, Olschewski H. An Official European Respiratory Society Statement: Pulmonary Hemodynamics During Exercise. *Eur Respir J*. 2017 Nov 22;50(5).
46. Naeije R, **Saggar R**, Badesch D, Rajagopalan S, Gargani L, Rischard F, Ferrara F, Marra AM, D'Alto M, Bull TM, Saggar R, Grunig E, Bossone E. Exercise-Induced Pulmonary Hypertension: Translating Pathophysiological Concepts into Clinical Practice. *Chest* 2018 Jul;154(1):10-15
47. Rudski LG, Gargani L, Armstrong WF, Lancellotti P, Lester SJ, Grunig E, D'Alto M, Astrom Aneq M, Ferrara F, Saggar R, **Saggar R**, Naeije R, Picano E, Schiller NB, Bossone E. Stressing the Cardiopulmonary Vascular System: The Role of Echocardiography. *J Am Soc Echocardiogr*. 2018 May;31(5):527-550
48. Sultan S, Tseng S, Stanziola AA, Hodges T, Saggar R, **Saggar R**. Pulmonary Hypertension: The Role of Lung Transplantation. *Heart Fail Clin*. 2018 Jul;14(3):327-331
49. Tseng S, Stanziola AA, Sultan S, Henry K, **Saggar R**, Saggar R. Pulmonary Hypertension Related to Chronic Obstructive Pulmonary Disease and Diffuse Parenchymal Lung Disease: A Focus on Right Ventricular (Dys) Function. *Heart Failure Clin*. 2018 Jul;14(3):403-411
50. Ferrera F, Gargani L, Armstrong WF, Agoston G, Cittadini A, Citro R, D'Alto M, D'Andrea A, Dellegrottaglie S, De Luca N, Di Salvo G, Ghio S, Grunig E, Guazzi M, Kasprzak JD, Kolia TJ, Kovacs G, Lancellotti P, La Gerche A, Limongelli G, Marra AM, Moreo A, Ostefeld E, Pieri F, Pratali L, Rudski LG, **Saggar R**, Saggar R, Scalese M, Selton-Suty C, Serra W, Stanziola AA, Voillot D, Naeije R, Bossone E. The Right Heart International Network: Rationale, Objectives, Methodology, and Clinical Implications. *Heart Fail Clin*. 2018 Jul;14(3):443-465
51. D'Andrea A, Stanziola AA, **Saggar R**, Saggar R, Sperlongano S, Conte M, D'Alto M, Ferrara F, Gargani L, Lancellotti P, Bossone E. Right Ventricular Functional Reserve in Early Stage IPF: An Exercise Two-Dimensional Speckle Tracking Doppler Echocardiography Study. *Chest* 2019 Feb; 155(2):297-306.
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53. Seki A, Anklesaria Z, **Saggar R**, Dodson M, Schwab K, Liu M, Charan D, Miller W, Vangala S, Derhovanessian A, Shaikh F, Ross D, Sullivan L, Khanna D, Shapiro S, Sager J, Gargani L, Stanziola A,

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55. **Sagggar R**, Giri PC, Deng C, Johnson D, McCloy MK, Liang L, Shaikh F, Hong J, Channick RN, Shapiro SS, Lynch JP, Belperio JA, Weigt SS, Ramsey AL, Ross DJ, Sayah DM, Shino MY, Derhovanessian A, Sherman AE, Sagggar R. *Pulm Circ*. 2021 May 2;11
56. Singh D, Bogus M, Moskalenko V, Lord R, Moran EJ, Crater GD, Bourdet DL, Pfeifer ND, Woo J, Kaufman E, Lombardi DA, Weng EY, Nguyen T, Woodcock A, Haumann B, **Sagggar R**. *Eur Respir J*. 2021 Jul 1:2100673