Curriculum Vitae The Johns Hopkins University School of Medicine

(Signature) A. Wise, M.D.

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DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointment

University:	Professor of Medicine with Joint Appointment in Environmental Health and Engineering, Johns Hopkins Medical Institutions, Baltimore, Maryland		
Hospital:	Director, Pulmonary Function Laboratory Johns Hopkins Bayview Medical Center, Baltimore, MD		
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Education and T	raining:		

1963-67	A.B.	Cum Laude, Dartmouth College, Hanover, NH
1967-69	B.M.S.	Cum Laude, Dartmouth Medical School, Hanover, NH
1969-71	M.D.	Harvard Medical School, Boston, MA
1971-72	Intern	University of Michigan Medical Center, Ann Arbor, Michigan
1972-73	Resident	University of Michigan Medical Center, Ann Arbor, Michigan
1975-77	Resident	University of Michigan Medical Center, Ann Arbor, Michigan
1975-77	Sr. Resident	University of Michigan Medical Center, Ann Arbor, Michigan
1977-80	Fellow	Respiratory Division, Johns Hopkins University School of Medicine
1978-80	Fellow	Environmental Physiology Division, Johns Hopkins Univ. School of
		Hygiene & Public Health

Professional Experience:

1973 -75	USPHS	National Health Service Corps, Colebrook, New Hampshire
1980-81	Instructor	Medicine and Environ. Physiology, Johns Hopkins School of
		Medicine, Hygiene & Public Health
1981-87	Assistant Professor	Medicine with Joint Appointments in Environmental Health
		Sciences, Johns Hopkins Medical Institutions
	Instructor	Radiology (Nuclear Medicine) The Johns Hopkins Medical
		Institutions, Baltimore, Maryland
1987-98	Associate Professor	Medicine with Joint Appointments in Environmental Health
		Sciences
1987-2010	Instructor	Radiology (Nuclear Medicine) The Johns Hopkins University School of
		Medicine

1988-1997	Associate Director	Division of Pulmonary and Critical Care Medicine, Johns
		Hopkins Medical Institutions
1997-1998	Interim Director	Division of Pulmonary and Critical Care Medicine, The Johns
		Hopkins Medical Institutions
1998-	Professor	Medicine with Joint Appointment in Environmental Health
		Sciences, Johns Hopkins University School of Medicine
1993-2005	Director	Pulmonary & Critical Care Fellowship Program
		Division of Pulmonary & Critical Care Medicine
		Johns Hopkins Medical Institutions
1998-2006	Director	Pulmonary Function Laboratory
		Johns Hopkins Hospital, Baltimore, MD
2014-2018	Associate Director	Division of Pulmonary and Critical Care Medicine, Johns
		Hopkins Medical Institutions

RESEARCH ACTIVITIES

Publications: Scientific articles

- 1. Schroeder HA, Baker JT, Hansen NM, Jr, Size JG and **Wise RA**. Vascular reactivity of rats altered by cadmium and a zinc chelate. Arch Environ Health 1970; 21:609-614
- 2. Wang KP, **Wise RA**, Terry PB and Summer WR. A new controllable suction catheter for blind cannulation of the main stem bronchi. Crit Care Med 1978; 6:347-348
- 3. Wang KP, **Wise RA**, Terry PB, Kaplan J, Britt EJ, Haponik EF, Summer WR and Marsh B. Comparison of standard and large forceps for transbronchial lung biopsy in the diagnosis of lung infiltrates. Endoscopy 1980; 12:151-154
- 4. Wise RA, Robotham JL and Summer WR. Effects of spontaneous ventilation on the circulation. Lung 1981; 159:175-186
- 5. Wise RA, Wigley F, Newball HH and Stevens MB. The effect of cold exposure on diffusing capacity in patients with Raynaud's phenomenon. Chest 1982; 81:695-698
- 6. Wise R and Summer WR. Pulsus Paradoxus: Why it happens, how to treat it. J Respir Dis 1982; 3:89-99
- 7. Schneider PD, **Wise RA**, Hochberg MC and Wigley FM. Serial pulmonary function in systemic sclerosis. Am J Med 1982; 73:385-394
- 8. Ettinger WH, **Wise RA**, Stevens MB and Wigley FM. Absence of positional change in pulmonary diffusing capacity in systemic sclerosis. Am J Med 1983; 75:305-312
- 9. Pinsky MR, Summer WR, **Wise RA**, Permutt S and Bromberger-Barnea B. Augmentation of cardiac function by elevation of intrathoracic pressure. J Appl Physiol 1983; 54:950-955
- 10. Wise R and Summer WR. Pulmonary mechanics and artificial support of the arrested circulation. Clin Chest Med 1983; 4:189-198
- 11. Peters-Golden M, **Wise RA**, Hochberg MC, Stevens MB and Wigley FM. Carbon monoxide diffusing capacity as predictor of outcome in systemic sclerosis. Am J Med 1984; 77:1027-1034
- 12. Peters-Golden M, **Wise RA**, Schneider P, Hochberg M, Stevens MB and Wigley F. Clinical and demographic predictors of loss of pulmonary function in systemic sclerosis. Medicine (Baltimore) 1984; 63:221-231

- 13. Ettinger WH, **Wise RA**, Schaffhauser D and Wigley FM. Controlled double-blind trial of dazoxiben and nifedipine in the treatment of Raynaud's phenomenon. Am J Med 1984; 77:451-456
- 14. Karam M, **Wise RA**, Natarajan TK, Permutt S and Wagner HN. Mechanism of decreased left ventricular stroke volume during inspiration in man. Circulation 1984; 69:866-873
- 15. Haponik EF, Munster AM, **Wise RA**, Smith PL, Meyers DA, Britt EJ and Bleecker ER. Upper airway function in burn patients. Correlation of flow-volume curves and nasopharyngoscopy. Am Rev Respir Dis 1984; 129:251-257
- 16. Wise RA, Wigley FM and Malamet R. Digital pressure-flow relationships in subjects with Raynaud's phenomenon. Angiology 1985; 36:596-602
- 17. Wise RA. Effect of alterations of pleural pressure on cardiac output. South Med J 1985; 78:423-428
- 18. Brower R, **Wise RA**, Hassapoyannes C, Bromberger-Barnea B and Permutt S. Effect of lung inflation on lung blood volume and pulmonary venous flow. J Appl Physiol 1985; 58:954-963
- 19. Robotham JL, **Wise R** and Bromberger-Barnea B. Effects of changes in abdominal pressure on left ventricular performance and regional blood flow. Crit Care Med 1985; 13:803-809
- 20. Peters-Golden M, **Wise RA**, Hochberg M, Stevens MB and Wigley FM. Incidence of lung cancer in systemic sclerosis. J Rheumatol 1985; 12:1136-1139
- 21. Malamet R, **Wise RA**, Ettinger WH and Wigley FM. Nifedipine in the treatment of Raynaud's phenomenon. Evidence for inhibition of platelet activation. Am J Med 1985; 78:602-608
- Wise RA. Effect of circulatory mechanics on hydrostatic forces producing pulmonary edema. J Crit Care 1986; 1:247-256
- Hausknecht MJ, Wise RA, Brower RG, Hassapoyannes C, Weisfeldt ML, Suzuki J and Permutt S. Effects of lung inflation on blood flow during cardiopulmonary resuscitation in the canine isolated heart-lung preparation. Circ Res 1986; 59:676-683
- 24. Brower RG, **Wise RA**, Hassapoyannes C, Hausknecht M and Permutt S. Longitudinal distribution of vascular compliance in the canine lung. J Appl Physiol 1986; 61:240-247
- 25. Wise RA, Malamet R and Wigley FM. Acute effects of nifedipine on digital blood flow in human subjects with Raynaud's phenomenon: a double blind placebo controlled trial. J Rheumatol 1987; 14:278-283
- 26. Haponik EF, Meyers DA, Munster AM, Smith PL, Britt EJ, **Wise R** and Bleecker ER. Acute upper airway injury in burn patients. Serial changes of flow-volume curves and nasopharyngoscopy. Am Rev Respir Dis 1987; 135:360-366
- 27. Scott TE, **Wise RA**, Hochberg MC and Wigley FM. HLA-DR4 and pulmonary dysfunction in rheumatoid arthritis. Am J Med 1987; 82:765-771
- 28. Natarajan TK, **Wise RA**, Karam M, Permutt S and Wagner HN,Jr. Immediate effect of expiratory loading on left ventricular stroke volume. Circulation 1987; 75:139-145
- 29. Brower RG, Gottlieb J, **Wise RA**, Permutt S and Sylvester JT. Locus of hypoxic vasoconstriction in isolated ferret lungs. J Appl Physiol 1987; 63:58-65
- 30. Wigley FM, **Wise RA**, Malamet R and Scott TE. Nicardipine in the treatment of Raynaud's phenomenon. Dissociation of platelet activation from vasospasm. Arthritis Rheum 1987; 30:281-286

- 31. Wigley FM, Malamet R and **Wise RA.** Reproducibility of cold provocation in patients with Raynaud's phenomenon. J Rheumatol 1987; 14:751-755
- 32. Wise RA, Wigley FM, Scott TE and Hochberg MC. HLA-DQw alloantigens and pulmonary dysfunction in rheumatoid arthritis. Chest 1988; 94:609-614
- 33. Schwartz AR, Smith PL, **Wise RA**, Gold AR and Permutt S. Induction of upper airway occlusion in sleeping individuals with subatmospheric nasal pressure. J Appl Physiol 1988; 64:535-542
- 34. Einagle V, Bertrand F, **Wise RA**, Roussos C and Magder S. Interposed abdominal compressions and carotid blood flow during cardiopulmonary resuscitation. Support for a thoracoabdominal unit. Chest 1988; 93:1206-1212
- 35. Passerini L, **Wise RA**, Roussos C and Magder S. Maintenance of circulation without chest compression during CPR. J Crit Care 1988; 3:96-102
- 36. Fessler HE, Brower RG, **Wise R** and Permutt S. Mechanism of reduced LV afterload by systolic and diastolic positive pleural pressure. J Appl Physiol 1988; 65:1244-1250
- 37. Stokes DC, Pyeritz RE, **Wise RA**, Fairclough D and Murphy EA. Spirometry and chest wall dimensions in achondroplasia. Chest 1988; 93:364-369
- 38. Smith PL, **Wise RA**, Gold AR, Schwartz AR and Permutt S. Upper airway pressure-flow relationships in obstructive sleep apnea. J Appl Physiol 1988; 64:789-795
- 39. Schwartz AR, Smith PL, **Wise RA**, Bankman I and Permutt S. Effect of positive nasal pressure on upper airway pressure-flow relationships. J Appl Physiol 1989; 66:1626-1634
- 40. Prince DS, Wingard JR, Saral R, Santos GW and **Wise RA.** Longitudinal changes in pulmonary function following bone marrow transplantation. Chest 1989; 96:301-306
- 41. Gleadhill IC, **Wise RA**, Schonfeld SA, Scott PP, Guarnieri T, Levine JH, Griffith LS and Veltri EP. Serial lung function testing in patients treated with amiodarone: a prospective study. Am J Med 1989; 86:4-10
- 42. Takata M, **Wise R** and Robotham JL. Effects of abdominal pressure on venous return: abdominal vascular zone conditions. J Appl Physiol 1990; 69:1961-1972
- 43. Stokes DC, Wohl ME, **Wise RA**, Pyeritz RE and Fairclough DL. The lungs and airways in achondroplasia. Do little people have little lungs? Chest 1990; 98:145-152
- 44. Smith PL, Schwartz AR, Gauda E, **Wise RA**, Brower R and Permutt S. The modulation of upper airway critical pressures during sleep. Prog Clin Biol Res 1990; 345:253-8; discussion 258-60
- 45. Fessler HE, Brower RG, **Wise R** and Permutt S. Positive pleural pressure decreases coronary perfusion. Am J Physiol 1990; 258:H814-20
- 46. Wigley FM, **Wise RA**, Mikdashi J, Schaefer S and Spence RJ. The post-occlusive hyperemic response in patients with systemic sclerosis. Arthritis Rheum 1990; 33:1620-1625
- 47. Schwartz AR, Gold AR, Schubert N, Stryzak A, **Wise RA**, Permutt S and Smith PL. Effect of weight loss on upper airway collapsibility in obstructive sleep apnea. Am Rev Respir Dis 1991; 144:494-498
- 48. Fessler HE, Brower RG, **Wise R** and Permutt S. Effects of positive end-expiratory pressure on the gradient for venous return. Am Rev Respir Dis 1991; 143:19-24

- 49. Thurm CA, Wigley FM, Dole WP and **Wise RA.** Failure of vasodilator infusion to alter pulmonary diffusing capacity in systemic sclerosis. Am J Med 1991; 90:547-552
- 50. Tashkin DP, Rand C, Nides M, Simmons M, **Wise RA**, Coulson AH, Li V and Gong H,Jr. A nebulizer chronolog to monitor compliance with inhaler use. Am J Med 1991; 91:33S-36S
- 51. Gleadhill IC, Schwartz AR, Schubert N, **Wise RA**, Permutt S and Smith PL. Upper airway collapsibility in snorers and in patients with obstructive hypopnea and apnea. Am Rev Respir Dis 1991; 143:1300-1303
- 52. Wigley FM, **Wise RA**, Miller R, Needleman BW and Spence RJ. Anticentromere antibody as a predictor of digital ischemic loss in patients with systemic sclerosis. Arthritis Rheum 1992; 35:688-693
- 53. Fessler HE, Brower RG, **Wise R** and Permutt S. Effects of positive end-expiratory pressure on the canine venous return curve. Am Rev Respir Dis 1992; 146:4-10
- 54. Fessler HE, Brower RG, **Wise R** and Permutt S. Effects of systolic and diastolic positive pleural pressure pulses with altered cardiac contractility. J Appl Physiol 1992; 73:498-505
- 55. Bankman IN, Sigillito VG, **Wise R** and Smith PL. Feature-based detection of the K-complex wave in the human electroencephalogram using neural networks. IEEE Trans Biomed Eng 1992; 39:1305-1310
- 56. Blosser S, Wigley FM and **Wise RA.** Increase in translaryngeal resistance during phonation in rheumatoid arthritis. Chest 1992; 102:387-390
- 57. Wigley FM, Seibold JR, **Wise RA**, McCloskey DA and Dole WP. Intravenous iloprost treatment of Raynaud's phenomenon and ischemic ulcers secondary to systemic sclerosis. J Rheumatol 1992; 19:1407-1414
- 58. Tashkin DP, Altose MD, Bleecker ER, Connett JE, Kanner RE, Lee WW and **Wise RA.** The lung health study: airway responsiveness to inhaled methacholine in smokers with mild to moderate airflow limitation. The Lung Health Study Research Group. Am Rev Respir Dis 1992; 145:301-310
- 59. Rand CS, **Wise RA**, Nides M, Simmons MS, Bleecker ER, Kusek JW, Li VC and Tashkin DP. Metered-dose inhaler adherence in a clinical trial. Am Rev Respir Dis 1992; 146:1559-1564
- 60. Jabs EW, Tuck-Muller CM, Anhalt GJ, Earnshaw W, **Wise R** and Wigley F. Cytogenetic survey in systemic sclerosis: correlation of aneuploidy with the presence of anticentromere antibodies. Cytogenet Cell Genet 1993; 63:169-175
- 61. Schwartz AR, Thut DC, Russ B, Seelagy M, Yuan X, Brower RG, Permutt S, Wise R and Smith PL. Effect of electrical stimulation of the hypoglossal nerve on airflow mechanics in the isolated upper airway. Am Rev Respir Dis 1993; 147:1144-1150
- 62. Nides MA, Tashkin DP, Simmons MS, **Wise RA**, Li VC and Rand CS. Improving inhaler adherence in a clinical trial through the use of the nebulizer chronolog. Chest 1993; 104:501-507
- 63. Gold AR, Schwartz AR, **Wise R** and Smith PL. Pulmonary function and respiratory chemosensitivity in moderately obese patients with sleep apnea. Chest 1993; 103:1325-1329
- 64. Thut DC, Schwartz AR, Roach D, **Wise RA**, Permutt S and Smith PL. Tracheal and neck position influence upper airway airflow dynamics by altering airway length. J Appl Physiol 1993; 75:2084-2090
- 65. Wise R and Wigley F. Acute effects of misoprostol on digital circulation in patients with Raynaud's phenomenon. J Rheumatol 1994; 21:80-83

- 66. Yurovsky VV, Sutton PA, Schulze DH, Wigley FM, **Wise RA**, Howard RF and White B. Expansion of selected V delta 1 gamma delta T cells in systemic sclerosis patients. J Immunol 1994; 153:881-891
- 67. Kanner RE, Connett JE, Altose MD, Buist AS, Lee WW, Tashkin DP and **Wise RA.** Gender difference in airway hyperresponsiveness in smokers with mild COPD. The Lung Health Study. Am J Respir Crit Care Med 1994; 150:956-961
- 68. Wigley FM, Wise RA, Seibold JR, McCloskey DA, Kujala G, Medsger TA, Jr, Steen VD, Varga J, Jimenez S, Mayes M, Clements PJ, Weiner SR, Porter J, Ellman M, Wise C, Kaufman LD, Williams J and Dole W. Intravenous iloprost infusion in patients with Raynaud phenomenon secondary to systemic sclerosis. A multicenter, placebo-controlled, double-blind study. Ann Intern Med 1994; 120:199-206
- 69. Rand CS and **Wise RA.** Measuring adherence to asthma medication regimens. Am J Respir Crit Care Med 1994; 149:S69-76; discussion S77-8
- 70. Wise RA. Physiologic Measures in Asthma. Am J Respir Crit Care Med 1994; 149:S19
- 71. Seelagy MM, Schwartz AR, Russ DB, King ED, **Wise R** and Smith PL. Reflex modulation of airflow dynamics through the upper airway. J Appl Physiol 1994; 76:2692-2700
- 72. Whitmore SE, Wigley FM and **Wise RA.** Acute effect of topical minoxidil on digital blood flow in patients with Raynaud's phenomenon. J Rheumatol 1995; 22:50-54
- 73. Rand CS, Nides M, Cowles MK, **Wise R** and Connett J. Long-term metered-dose inhaler adherence in a clinical trial. The Lung Health Study Research Group. Am J Respir Crit Care Med 1995; 152:580-588
- 74. Wise RA, Connett J, Kurnow K, Grill J, Johnson L, Kanner R and Enright P. Selection of spirometric measurements in a clinical trial, the Lung Health Study. Am J Respir Crit Care Med 1995; 151:675-681
- 75. Tashkin DP, Altose MD, Connett JE, Kanner RE, Lee WW and Wise RA. Methacholine reactivity predicts changes in lung function over time in smokers with early chronic obstructive pulmonary disease. The Lung Health Study Research Group. Am J Respir Crit Care Med 1996; 153:1802-1811
- 76. Putman MT and Wise RA. Myasthenia gravis and upper airway obstruction. Chest 1996; 109:400-404
- 77. Todd NW and **Wise RA.** Respiratory complications in the collagen vascular diseases. Clin Pulm Med 1996; 3:101-112
- 78. Yurovsky VV, Wigley FM, **Wise R** and White B. Skewing of the CD8 T-cell repertoire in the lungs of patients with systemic sclerosis. Hum Immunol 1996; 48:84-97
- 79. Simmons MS, Nides MA, Rand CS, **Wise R** and Tashkin DP. Trends in compliance with bronchodilator inhaler use between follow-up visits in a clinical trial. Chest 1996; 109:963-968
- 80. Wise RA. Changing smoking patterns and mortality from chronic obstructive pulmonary disease. Prev Med 1997; 26:418-421
- 81. Wise RA, Szklo M, Matanoski G and Neugut AI. Workshop discussion panel. III: Implications of the changing tobacco-related mortality from COPD in the CPS-1 and CPS-2 surveys. Prev Med 1997; 26:457-459
- Greidinger EL, Flaherty KT, White B, Rosen A, Wigley FM and Wise RA. African-American race and antibodies to topoisomerase I are associated with increased severity of scleroderma lung disease. Chest 1998; 114:801-807

- 83. Punjabi NM, Shade D and **Wise RA.** Correction of single-breath helium lung volumes in patients with airflow obstruction. Chest 1998; 114:907-918
- 84. Harik-Khan RI, **Wise R** and Fozard JL. Determinants of maximal inspiratory pressure. The Baltimore Longitudinal Study of Aging. Am J Respir Crit Care Med 1998; 158:1459-1464
- 85. O'Hara P, Connett JE, Lee WW, Nides M, Murray R and **Wise RA.** Early and late weight gain following smoking cessation in the Lung Health Study. Am J Epidemiol 1998; 148:821-830
- 86. Wise RA, Enright PL, Connett JE, Anthonisen NR, Kanner RE, Lindgren P, O'Hara P, Owens GR, Rand CS and Tashkin DP. Effect of weight gain on pulmonary function after smoking cessation in the Lung Health Study. Am J Respir Crit Care Med 1998; 157:866-872
- 87. Murray RP, Anthonisen NR, Connett JE, Wise RA, Lindgren PG, Greene PG and Nides MA. Effects of multiple attempts to quit smoking and relapses to smoking on pulmonary function. Lung Health Study Research Group. J Clin Epidemiol 1998; 51:1317-1326
- 88. Diette GB, White P,Jr, Terry P, Jenckes M, **Wise R** and Rubin HR. Quality assessment through patient self-report of symptoms prefiberoptic and postfiberoptic bronchoscopy. Chest 1998; 114:1446-1453
- 89. Harik-Khan R, **Wise RA**, Lou C, Morrell CH, Brant LJ and Fozard JL. The effect of gestational parity on FEV1 in a group of healthy volunteer women. Respir Med 1999; 93:382-388
- 90. Fessler HE and **Wise RA.** Lung volume reduction surgery: is less really more? Am J Respir Crit Care Med 1999; 159:1031-1035
- 91. Atamas SP, Yurovsky VV, **Wise RA**, Wigley FM, Goter Robinson CJ, Henry P, Alms WJ and White B. Production of type 2 cytokines by CD8+ lung cells is associated with greater decline in pulmonary function in patients with systemic sclerosis. Arthritis Rheum 1999; 42:1168-1178
- 92. Jennings JR, Maricq HR, Canner J, Thompson B, Freedman RR, Wise R and Kaufmann PG. A thermal vascular test for distinguishing between patients with Raynaud's phenomenon and healthy controls. Raynaud's Treatment Study Investigators. Health Psychol 1999; 18:421-426
- 93. White B, Moore WC, Wigley FM, Xiao HQ and **Wise RA.** Cyclophosphamide is associated with pulmonary function and survival benefit in patients with scleroderma and alveolitis. Ann Intern Med 2000; 132:947-954
- 94. Wise RA, Connett JE, Weinmann GG, Scanlon PD, Skeans MA and the Lung Health Study Research Group. Effect of inhaled triamcinolone on the decline in pulmonary function in chronic obstructive pulmonary disease. N Engl J Med 2000; 343:1902-1909
- 95. Taylor ML, Noble PW, White B, **Wise RA**, Liu MC and Bochner BS. Extensive surface phenotyping of alveolar macrophages in interstitial lung disease. Clin Immunol 2000; 94:33-41
- 96. Szefler SS, Weiss ST, Tonascia J, Adkinson NF, Bender B, Cherniack RM, Donithan M, Kelly HW, Reisman J, Shapiro GG, Sternberg AL, Strunk RC, Taggart VC, VanNatta M, Wise RA, Wu M, Zeiger RS and for the Childhood Asthma Management Program Research Group. Long-term effects of budesonide or nedocromil in children with asthma. The Childhood Asthma Management Program Research Group. N Engl J Med 2000; 343:1054-1063
- 97. Patel A, Kesler B and **Wise RA**. Persistent pneumomediastinum in interstitial fibrosis associated with rheumatoid arthritis: treatment with high-concentration oxygen. Chest 2000; 117:1809-1813

- 98. Simmons MS, Nides MA, Rand CS, **Wise R** and Tashkin DP. Unpredictability of deception in compliance with physician-prescribed bronchodilator inhaler use in a clinical trial. Chest 2000; 118:290-295
- 99. Harik-Khan RI, Fleg JL, Muller DC and **Wise RA.** The effect of anthropometric and socioeconomic factors on the racial difference in lung function. Am J Respir Crit Care Med 2001; 164:1647-1654
- 100. Harik-Khan RI, **Wise R** and Fleg JL. The effect of gender on the relationship between body fat distribution and lung function. J Clin Epidemiol 2001; 54:399-406
- 101. Greidinger EL, Gaine SP, **Wise RA**, Boling C, Housten-Harris T and Wigley FM. Primary pulmonary hypertension is not associated with scleroderma-like changes in nailfold capillaries. Chest 2001; 120:796-800
- 102. Castro M, Dozor AJ, Fish JE, Irvin CG, Scharf SM, Scheipeter ME, Holbrook JT, Tonascia J, Wise R and for the American Lung Association Asthma Clinical Research Centers. The safety of inactivated influenza vaccine in adults and children with asthma. N Engl J Med 2001; 345:1529-1536
- 103. Weil MH, Becker L, Budinger T, Kern K, Nichol G, Shechter I, Traystman R, Wiedemann H, Wise RA, Weisfeldt M and Sopko G. Workshop Executive Summary Report: Post-resuscitative and initial Utility in Life Saving Efforts (PULSE): June 29-30, 2000; Lansdowne Resort and Conference Center; Leesburg, VA. Circulation 2001; 103:1182-1184
- 104. Harik-Khan RI, Fleg JL and Wise RA. Body mass index and the risk of COPD. Chest 2002; 121:370-376
- 105. Holbrook JT, Wise RA, Gerald LB and American Lung Association Asthma Clinical Research Centers. Drug distribution for a large crossover trial of the safety of inactivated influenza vaccine in asthmatics. Control Clin Trials 2002; 23:87-92
- 106. Luzina IG, Atamas SP, **Wise RA**, Wigley FM, Xiao HQ and White B. Gene expression in bronchoalveolar lavage cells from scleroderma patients. Am J Respir Cell Mol Biol 2002; 26:549-557
- 107. Bilchick KC and Wise RA. Paradoxical physical findings described by Kussmaul: pulsus paradoxus and Kussmaul's sign. Lancet 2002; 359:1940-1942
- 108. Becker LB, Weisfeldt ML, Weil MH, Budinger T, Carrico J, Kern K, Nichol G, Shechter I, Traystman R, Webb C, Wiedemann H, Wise R and Sopko G. The PULSE initiative: scientific priorities and strategic planning for resuscitation research and life saving therapies. Circulation 2002; 105:2562-2570
- 109. Schachna L, Wigley FM, Chang B, White B, **Wise R** and Gelber AC. Age and risk of pulmonary arterial hypertension in scleroderma. Chest 2003; 124:2098-2104
- 110. Schatz M, Dombrowski MP, Wise RA, Thom EA, Landon M, Mabie W, Newman RB, Hauth JC, Lindheimer M, Caritis SN, Leveno KJ, Meis P, Miodovnik M, Wapner RJ, Paul RH, Varner MW, O'sullivan MJ, Thurnau GR, Conway D and McNellis D. Asthma morbidity during pregnancy can be predicted by severity classification. J Allergy Clin Immunol 2003; 112:283-288
- 111. Connett JE, Murray RP, Buist AS, Wise RA, Bailey WC, Lindgren PG, Owens GR and Lung Health Study Research Group. Changes in smoking status affect women more than men: results of the Lung Health Study. Am J Epidemiol 2003; 157:973-979
- 112. Croxton TL, Weinmann GG, Senior RM, **Wise RA**, Crapo JD and Buist AS. Clinical research in chronic obstructive pulmonary disease: needs and opportunities. Am J Respir Crit Care Med 2003; 167:1142-1149

- 113. Wise RA, Kanner RE, Lindgren P, Connett JE, Altose MD, Enright PL, Tashkin DP and Lung Health Study Research Group. The effect of smoking intervention and an inhaled bronchodilator on airways reactivity in COPD: the Lung Health Study. Chest 2003; 124:449-458
- 114. Eichenhorn MS, Wise RA, Madhok TC, Gerald LB, Bailey WC, Tashkin DP, Scanlon PD and Lung Health Study Research Group. Lack of long-term adverse adrenal effects from inhaled triamcinolone: Lung Health Study II. Chest 2003; 124:57-62
- 115. Punjabi NM, Shade D, Patel AM and **Wise RA.** Measurement variability in single-breath diffusing capacity of the lung. Chest 2003; 123:1082-1089
- 116. Luzina IG, Atamas SP, **Wise RA**, Wigley FM, Choi J, Xiao HQ and White B. Occurrence of an activated, profibrotic pattern of gene expression in lung CD8+ T cells from scleroderma patients. Arthritis Rheum 2003; 48:2262-2274
- 117. Fishman A, Martinez F, Naunheim K, Piantadosi S, Wise RA, Ries A, Weinmann G, Wood DE and National Emphysema Treatment Trial Research Group (incl Wise R). A randomized trial comparing lung-volume-reduction surgery with medical therapy for severe emphysema. N Engl J Med 2003; 348:2059-2073
- 118. Chang B, Wigley FM, White B and **Wise RA.** Scleroderma patients with combined pulmonary hypertension and interstitial lung disease. J Rheumatol 2003; 30:2398-2405
- 119. Mohsenifar Z, Lee SM, Diaz P, Criner G, Sciurba F, Ginsburg M and **Wise RA.** Single-breath diffusing capacity of the lung for carbon monoxide: a predictor of PaO2, maximum work rate, and walking distance in patients with emphysema. Chest 2003; 123:1394-1400
- 120. Sciurba F, Criner GJ, Lee SM, Mohsenifar Z, Shade D, Slivka W, **Wise R** and National Emphysema Treatment Trial Research Group (incl **Wise R**). Six-minute walk distance in chronic obstructive pulmonary disease: reproducibility and effect of walking course layout and length. Am J Respir Crit Care Med 2003; 167:1522-1527
- 121. Ash-Bernal R, **Wise R** and Wright SM. Acquired methemoglobinemia: a retrospective series of 138 cases at 2 teaching hospitals. Medicine (Baltimore) 2004; 83:265-273
- 122. Zaas D, **Wise RA**, Wiener C and Longcope Spirometry Invetigation Team. Airway obstruction is common but unsuspected in patients admitted to a general medicine service. Chest 2004; 125:106-111
- 123. Dombrowski MP, Schatz M, Wise RA, Momirova V, Landon M, Mabie W, Newman RB, McNellis D, Hauth JC, Lindheimer M, Caritis SN, Leveno KJ, Meis P, Miodovnik M, Wapner RJ, Paul RH, Varner MW, O'Sullivan MJ, Thurnau GR, Conway DL and National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network and the National Heart, Lung, and Blood Institute. Asthma during pregnancy. Obstet Gynecol 2004; 103:5-12
- 124. Smith LJ, Holbrook JT, **Wise RA**, Blumenthal M, Dozor AJ, Mastronarde J, Williams L and American Lung Association Asthma Clinical Research Centers. Dietary intake of soy genistein is associated with lung function in patients with asthma. J Asthma 2004; 41:833-843
- 125. Wise RA, Wigley FM, White B, Leatherman G, Zhong J, Krasa H, Kambayashi J, Orlandi C and Czerwiec FS. Efficacy and tolerability of a selective alpha(2C)-adrenergic receptor blocker in recovery from cold-induced vasospasm in scleroderma patients: a single-center, double-blind, placebo-controlled, randomized crossover study. Arthritis Rheum 2004; 50:3994-4001
- 126. Hanania NA, Sockrider M, Castro M, Holbrook JT, Tonascia J, **Wise RA**, Atmar RL and American Lung Association Asthma Clinical Research Centers. Immune response to influenza vaccination in children and adults with asthma: effect of corticosteroid therapy. J Allergy Clin Immunol 2004; 113:717-724

- 127. Scanlon PD, Connett JE, **Wise RA**, Tashkin DP, Madhok T, Skeans M, Carpenter PC, Bailey WC, Buist AS, Eichenhorn M, Kanner RE, Weinmann G and Lung Health Study Research Group. Loss of bone density with inhaled triamcinolone in Lung Health Study II. Am J Respir Crit Care Med 2004; 170:1302-1309
- 128. Lee SM, **Wise RA**, Sternberg AL, Tonascia J, Piantadosi S and National Emphysema Treatment Trial Research Group (incl **Wise R**). Methodologic issues in terminating enrollment of a subgroup of patients in a multicenter randomized trial. Clin Trials 2004; 1:326-338
- 129. Harik-Khan RI, Muller DC and Wise RA. Racial difference in lung function in African-American and White children: effect of anthropometric, socioeconomic, nutritional, and environmental factors. Am J Epidemiol 2004; 160:893-900
- 130. Dombrowski MP, Schatz M, Wise RA, Thom EA, Landon M, Mabie W, Newman RB, McNellis D, Hauth JC, Lindheimer M, Caritis SN, Leveno KJ, Meis P, Miodovnik M, Wapner RJ, Varner MW, O'Sullivan MJ, Conway DL, National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network and National Heart, Lung, and Blood Institute. Randomized trial of inhaled beclomethasone dipropionate versus theophylline for moderate asthma during pregnancy. Am J Obstet Gynecol 2004; 190:737-744
- 131. Schatz M, Dombrowski MP, Wise RA, Momirova V, Landon M, Mabie W, Newman RB, Hauth JC, Lindheimer M, Caritis SN, Leveno KJ, Meis P, Miodovnik M, Wapner RJ, Paul RH, Varner MW, O'Sullivan MJ, Thurnau GR, Conway DL, Maternal-Fetal Medicine Units Network, The National Institute of Child Health and Development and National Heart, Lung and Blood Institute. The relationship of asthma medication use to perinatal outcomes. J Allergy Clin Immunol 2004; 113:1040-1045
- 132. Harik-Khan RI, Muller DC and **Wise RA.** Serum vitamin levels and the risk of asthma in children. Am J Epidemiol 2004; 159:351-357
- 133. Limb SL, Brown KC, Wood RA, **Wise RA**, Eggleston PA, Tonascia J, Hamilton RG and Adkinson NF,Jr. Adult asthma severity in individuals with a history of childhood asthma. J Allergy Clin Immunol 2005; 115:61-66
- 134. Anthonisen NR, Skeans MA, **Wise RA**, Manfreda J, Kanner RE, Connett JE and Lung Health Study Research Group. The effects of a smoking cessation intervention on 14.5-year mortality: a randomized clinical trial. Ann Intern Med 2005; 142:233-239
- 135. Limb SL, Brown KC, Wood RA, **Wise RA**, Eggleston PA, Tonascia J and Adkinson NF,Jr. Irreversible lung function deficits in young adults with a history of childhood asthma. J Allergy Clin Immunol 2005; 116:1213-1219
- 136. Wise R and Brown CD. Minimal clinically important differences in the six-minute walk test and the incremental shuttle walking test. COPD 2005; 2:125-129
- 137. Barr RG, Celli BR, Martinez FJ, Ries AL, Rennard SI, Reilly JJ,Jr, Sciurba FC, Thomashow BM and Wise RA. Physician and patient perceptions in COPD: the COPD Resource Network Needs Assessment Survey. Am J Med 2005; 118:1415
- 138. Dixon AE, Kaminsky DA, Holbrook JT, **Wise RA**, Shade DM and Irvin CG. Allergic rhinitis and sinusitis in asthma: differential effects on symptoms and pulmonary function. Chest 2006; 130:429-435
- 139. Hendler I, Schatz M, Momirova V, Wise RA, Landon M, Mabie W, Newman RB, Kiley J, Hauth JC, Moawad A, Caritis SN, Spong CY, Leveno KJ, Miodovnik M, Meis P, Wapner RJ, Paul RH, Varner MW, O'sullivan MJ, Thurnau GR, Conway DL and National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network. Association of obesity with pulmonary and nonpulmonary complications of pregnancy in asthmatic women. Obstet Gynecol 2006; 108:77-82

- 140. Lima JJ, Holbrook JT, Wang J, Sylvester JE, Blake KV, Blumenthal MN, Castro M, Hanania N and Wise RA. The C523A beta2 adrenergic receptor polymorphism associates with markers of asthma severity in African Americans. J Asthma 2006; 43:185-191
- 141. Tashkin DP, Elashoff R, Clements PJ, Goldin J, Roth MD, Furst DE, Arriola E, Silver R, Strange C, Bolster M, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel DE, Theodore A, Simms R, Wise RA, Wigley F, White B, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M and Scleroderma Lung Study Research Group. Cyclophosphamide versus placebo in scleroderma lung disease. N Engl J Med 2006; 354:2655-2666
- 142. Dixon AE, Shade DM, Cohen RI, Skloot GS, Holbrook JT, Smith LJ, Lima JJ, Allayee H, Irvin CG, **Wise R** and American Lung Association-Asthma Clinical Research Centers. Effect of obesity on clinical presentation and response to treatment in asthma. J Asthma 2006; 43:553-558
- 143. Roth MD, Connett JE, D'Armiento JM, Foronjy RF, Friedman PJ, Goldin JG, Louis TA, Mao JT, Muindi JR, O'Connor GT, Ramsdell JW, Ries AL, Scharf SM, Schluger NW, Sciurba FC, Skeans MA, Walter RE, Wendt CH, Wise R and FORTE Study Investigators. Feasibility of retinoids for the treatment of emphysema study. Chest 2006; 130:1334-1345
- 144. Fuhlbrigge AL, Weiss ST, Kuntz KM, Paltiel AD and CAMP Research Group (incl Wise R). Forced expiratory volume in 1 second percentage improves the classification of severity among children with asthma. Pediatrics 2006; 118:e347-55
- 145. Lima JJ, Zhang S, Grant A, Shao L, Tantisira KG, Allayee H, Wang J, Sylvester J, Holbrook J, Wise RA, Weiss ST and Barnes K. Influence of leukotriene pathway polymorphisms on response to montelukast in asthma. Am J Respir Crit Care Med 2006; 173:379-385
- 146. Chang B, Schachna L, White B, Wigley FM and **Wise RA.** Natural history of mild-moderate pulmonary hypertension and the risk factors for severe pulmonary hypertension in scleroderma. J Rheumatol 2006; 33:269-274
- 147. Martinez FJ, Foster G, Curtis JL, Criner G, Weinmann G, Fishman A, DeCamp MM, Benditt J, Sciurba F, Make B, Mohsenifar Z, Diaz P, Hoffman E, **Wise R** and NETT Research Group (incl **Wise R**). Predictors of mortality in patients with emphysema and severe airflow obstruction. Am J Respir Crit Care Med 2006; 173:1326-1334
- 148. Wise RA, Polito AJ and Krishnan V. Respiratory physiologic changes in pregnancy. Immunol Allergy Clin North Am 2006; 26:1-12
- 149. Schatz M, Dombrowski MP, Wise RA, Momirova V, Landon M, Mabie W, Newman RB, Rouse DJ, Lindheimer M, Miodovnik M, Caritis SN, Leveno KJ, Meis P, Wapner RJ, Paul RH, O'Sullivan MJ, Varner MW, Thurnau GR, Conway DL, National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network and National Heart, Lung, and Blood Institute. Spirometry is related to perinatal outcomes in pregnant women with asthma. Am J Obstet Gynecol 2006; 194:120-126
- 150. Wise RA. The value of forced expiratory volume in 1 second decline in the assessment of chronic obstructive pulmonary disease progression. Am J Med 2006; 119:4-11
- 151. Herpel LB, Kanner RE, Lee SM, Fessler HE, Sciurba FC, Connett JE and Wise RA. Variability of spirometry in chronic obstructive pulmonary disease: results from two clinical trials. Am J Respir Crit Care Med 2006; 173:1106-1113
- 152. McGarvey LP, John M, Anderson JA, Zvarich M, Wise R and TORCH Clinical Endpoint Committee. Ascertainment of cause-specific mortality in COPD: operations of the TORCH Clinical Endpoint Committee. Thorax 2007; 62:411-415

- 153. Irvin CG, Kaminsky DA, Anthonisen NR, Castro M, Hanania NA, Holbrook JT, Lima JJ, **Wise R** and for the American Lung Association Asthma Clinical Research Centers. Clinical trial of low-dose theophylline and montelukast in patients with poorly controlled asthma. Am J Respir Crit Care Med 2007; 175:235-242
- 154. Criner GJ, Scharf SM, Falk JA, Gaughan JP, Sternberg AL, Patel NB, Fessler HE, Minai OA, Fishman AP and National Emphysema Treatment Trial Research Group (incl **Wise R**). Effect of lung volume reduction surgery on resting pulmonary hemodynamics in severe emphysema. Am J Respir Crit Care Med 2007; 176:253-260
- 155. Tashkin DP, Elashoff R, Clements PJ, Roth MD, Furst DE, Silver RM, Goldin J, Arriola E, Strange C, Bolster MB, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel D, Theodore A, Simms R, Wise RA, Wigley F, White B, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M, Khanna D, Li N, Li G and Scleroderma Lung Study Research Group. Effects of 1-year treatment with cyclophosphamide on outcomes at 2 years in scleroderma lung disease. Am J Respir Crit Care Med 2007; 176:1026-1034
- 156. Wise RA. Ethical issues confronted in pulmonary clinical trials. Proc Am Thorac Soc 2007; 4:200-5; discussion 205
- 157. Brown CD and **Wise RA.** Field tests of exercise in COPD: the six-minute walk test and the shuttle walk test. COPD 2007; 4:217-223
- 158. Khanna D, Yan X, Tashkin DP, Furst DE, Elashoff R, Roth MD, Silver R, Strange C, Bolster M, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel DE, Theodore A, Simms R, Wise RA, Wigley F, White B, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M, Clements PJ and Scleroderma Lung Study Group. Impact of oral cyclophosphamide on health-related quality of life in patients with active scleroderma lung disease: results from the scleroderma lung study. Arthritis Rheum 2007; 56:1676-1684
- 159. Wise R and Tashkin DP. Optimizing treatment of chronic obstructive pulmonary disease: an assessment of current therapies. Am J Med 2007; 120:S4-13
- 160. Drummond MB and **Wise RA.** Oxygen therapy in COPD: what do we know? Am J Respir Crit Care Med 2007; 176:321-322
- 161. Mittoo S, Wigley FM, Wise RA, Xiao H and Hummers L. Persistence of abnormal bronchoalveolar lavage findings after cyclophosphamide treatment in scleroderma patients with interstitial lung disease. Arthritis Rheum 2007; 56:4195-4202
- 162. Eden E, Holbrook JT, Brantly ML, Turino GM and **Wise RA.** Prevalence of alpha-1 antitrypsin deficiency in poorly controlled asthma--results from the ALA-ACRC low-dose theophylline trial. J Asthma 2007; 44:605-608
- 163. Wise R and Tashkin DP. Preventing chronic obstructive pulmonary disease: what is known and what needs to be done to make a difference to the patient? Am J Med 2007; 120:S14-22
- 164. Peters SP, Anthonisen N, Castro M, Holbrook JT, Irvin CG, Smith LJ, Wise R and for the American Lung Association Asthma Clinical Research Centers. Randomized comparison of strategies for reducing treatment in mild persistent asthma. N Engl J Med 2007; 356:2027-2039
- 165. Clements PJ, Roth MD, Elashoff R, Tashkin DP, Goldin J, Silver RM, Sterz M, Seibold JR, Schraufnagel D, Simms RW, Bolster M, Wise RA, Steen V, Mayes MD, Connelly K, Metersky M, Furst DE and Scleroderma Lung Study Group. Scleroderma lung study (SLS): differences in the presentation and course of patients with limited versus diffuse systemic sclerosis. Ann Rheum Dis 2007; 66:1641-1647
- 166. Martinez FJ, Curtis JL, Sciurba F, Mumford J, Giardino ND, Weinmann G, Kazerooni E, Murray S, Criner GJ, Sin DD, Hogg J, Ries AL, Han M, Fishman AP, Make B, Hoffman EA, Mohsenifar Z, **Wise R** and National Emphysema

Treatment Trial Research Group (incl **Wise R**). Sex differences in severe pulmonary emphysema. Am J Respir Crit Care Med 2007; 176:243-252

- 167. Fan VS, Ramsey SD, Giardino ND, Make BJ, Emery CF, Diaz PT, Benditt JO, Mosenifar Z, McKenna R, Jr, Curtis JL, Fishman AP, Martinez FJ and National Emphysema Treatment Trial (NETT) Research Group (incl Wise R). Sex, depression, and risk of hospitalization and mortality in chronic obstructive pulmonary disease. Arch Intern Med 2007; 167:2345-2353
- 168. McCormack MC, Shade D and Wise RA. Spirometer calibration checks: is 3.5% good enough? Chest 2007; 131:1486-1493
- 169. Wise RA, Teeter JG, Jensen RL, England RD, Schwartz PF, Giles DR, Ahrens RC, MacIntyre NR, Riese RJ and Crapo RO. Standardization of the single-breath diffusing capacity in a multicenter clinical trial. Chest 2007; 132:1191-1197
- 170. Salzman SH, Marciniuk DD, **Wise RA**, Ries AL and Pulmonary Physiology, Function, and Rehabilitation NetWork of the ACCP. Survey on quality of training in pulmonary physiology during fellowship. Chest 2007; 131:1270-1271
- 171. Gelb AF, Karpel J, **Wise RA**, Cassino C, Johnson P and Conoscenti CS. Bronchodilator efficacy of the fixed combination of ipratropium and albuterol compared to albuterol alone in moderate-to-severe persistent asthma. Pulm Pharmacol Ther 2008; 21:630-636
- 172. Snyder ML, Goss CH, Neradilek B, Polissar NL, Mosenifar Z, Wise RA, Fishman AP, Benditt JO and National Emphysema Treatment Trial Research Group (incl Wise R). Changes in arterial oxygenation and self-reported oxygen use after lung volume reduction surgery. Am J Respir Crit Care Med 2008; 178:339-345
- 173. Man SF, Xing L, Connett JE, Anthonisen NR, Wise RA, Tashkin DP, Zhang X, Vessey R, Walker TG, Celli BR and Sin DD. Circulating fibronectin to C-reactive protein ratio and mortality: a biomarker in COPD? Eur Respir J 2008; 32:1451-1457
- 174. Drummond MB, Blackford AL, Benditt JO, Make BJ, Sciurba FC, McCormack MC, Martinez FJ, Fessler HE, Fishman AP, Wise R and NETT Investigators (incl Wise R). Continuous oxygen use in nonhypoxemic emphysema patients identifies a high-risk subset of patients: retrospective analysis of the National Emphysema Treatment Trial. Chest 2008; 134:497-506
- 175. Washko GR, Fan VS, Ramsey SD, Mohsenifar Z, Martinez F, Make BJ, Sciurba FC, Criner GJ, Minai O, Decamp MM, Reilly JJ and National Emphysema Treatment Trial Research Group (incl Wise R). The effect of lung volume reduction surgery on chronic obstructive pulmonary disease exacerbations. Am J Respir Crit Care Med 2008; 177:164-169
- 176. Patel AC, Van Natta ML, Tonascia J, **Wise R** and Strunk RC. Effects of time, albuterol, and budesonide on the shape of the flow-volume loop in children with asthma. J Allergy Clin Immunol 2008; 122:781-787.e8
- 177. Lomas DA, Silverman EK, Edwards LD, Miller BE, Coxson HO, Tal-Singer R and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) investigators (Incl. Wise R). Evaluation of serum CC-16 as a biomarker for COPD in the ECLIPSE cohort. Thorax 2008; 63:1058-1063
- 178. Brown CD, Benditt JO, Sciurba FC, Lee SM, Criner GJ, Mosenifar Z, Shade DM, Slivka WA, **Wise R** and National Emphysema Treatment Trial Research Group (incl **Wise R**). Exercise testing in severe emphysema: association with quality of life and lung function. COPD 2008; 5:117-124
- 179. McGrath-Morrow S, Rangasamy T, Cho C, Sussan T, Neptune E, **Wise RA**, Tuder RM and Biswal S. Impaired lung homeostasis in neonatal mice exposed to cigarette smoke. Am J Respir Cell Mol Biol 2008; 38:393-400

- 180. Drummond MB, Schwartz PF, Duggan WT, Teeter JG, Riese RJ, Ahrens RC, Crapo RO, England RD, Macintyre NR, Jensen RL and Wise RA. Intersession variability in single-breath diffusing capacity in diabetics without overt lung disease. Am J Respir Crit Care Med 2008; 178:225-232
- 181. Martinez FJ, Han MK, Andrei AC, Wise RA, Murray S, Curtis JL, Sternberg A, Criner G, Gay SE, Reilly J, Make B, Ries AL, Sciurba F, Weinmann G, Mosenifar Z, DeCamp M, Fishman AP, Celli BR and National Emphysema Treatment Trial Research Group (incl Wise R). Longitudinal change in the BODE index predicts mortality in severe emphysema. Am J Respir Crit Care Med 2008; 178:491-499
- 182. Kim V, Benditt JO, Wise R and Sharafkhaneh A. Oxygen therapy in chronic obstructive pulmonary disease. Proc Am Thorac Soc 2008; 5:513-518
- 183. Muindi JR, Roth MD, Wise RA, Connett JE, O'Connor GT, Ramsdell JW, Schluger NW, Romkes M, Branch RA, Sciurba FC and FORTE Study Investigators. Pharmacokinetics and metabolism of all-trans- and 13-cis-retinoic acid in pulmonary emphysema patients. J Clin Pharmacol 2008; 48:96-107
- 184. Springmeyer SC, Casaburi R, Make B, Jones P and **Wise RA.** Pulmonary rehabilitation and clinical trial design in patients with severe COPD. COPD 2008; 5:305-309
- 185. Wise R and Drummond MB. The role of NETT in emphysema research. Proc Am Thorac Soc 2008; 5:385-392
- 186. Mastronarde JG, **Wise RA**, Shade DM, Olopade CO, Scharf SM and American Lung Association Asthma Clinical Research Centers. Sleep quality in asthma: results of a large prospective clinical trial. J Asthma 2008; 45:183-189
- 187. He JQ, Foreman MG, Shumansky K, Zhang X, Akhabir L, Sin DD, Man SF, DeMeo DL, Litonjua AA, Silverman EK, Connett JE, Anthonisen NR, Wise RA, Pare PD and Sandford AJ. Associations of IL6 polymorphisms with lung function decline and COPD. Thorax 2009; 64:698-704
- 188. Han MK, Bartholmai B, Liu LX, Murray S, Curtis JL, Sciurba FC, Kazerooni EA, Thompson B, Frederick M, Li D, Schwarz M, Limper A, Freeman C, Landreneau RJ, Wise R and Martinez FJ. Clinical significance of radiologic characterizations in COPD. COPD 2009; 6:459-467
- 189. Dixon AE, Sugar EA, Zinreich SJ, Slavin RG, Corren J, Naclerio RM, Ishii M, Cohen RI, Brown ED, Wise RA, Irvin CG and American Lung Association-Asthma Clinical Research Centers. Criteria to screen for chronic sinonasal disease. Chest 2009; 136:1324-1332
- 190. Decramer M, Celli B, Kesten S, Lystig T, Mehra S, Tashkin DP and UPLIFT investigators. Effect of tiotropium on outcomes in patients with moderate chronic obstructive pulmonary disease (UPLIFT): a prespecified subgroup analysis of a randomised controlled trial. Lancet 2009; 374:1171-1178
- 191. DiMango E, Holbrook JT, Simpson E, Reibman J, Richter J, Narula S, Prusakowski N, Mastronarde JG, Wise R and American Lung Association Asthma Clinical Research Centers. Effects of asymptomatic proximal and distal gastroesophageal reflux on asthma severity. Am J Respir Crit Care Med 2009; 180:809-816
- 192. Mastronarde JG, Anthonisen NR, Castro M, Holbrook JT, Leone FT, Teague WG, Wise R and for the American Lung Association Asthma Clinical Research Centers. Efficacy of esomeprazole for treatment of poorly controlled asthma. N Engl J Med 2009; 360:1487-1499
- 193. D'Armiento JM, Scharf SM, Roth MD, Connett JE, Ghio A, Sternberg D, Goldin JG, Louis TA, Mao JT, O'Connor GT, Ramsdell JW, Ries AL, Schluger NW, Sciurba FC, Skeans MA, Voelker H, Walter RE, Wendt CH, Weinmann GG, Wise R and Foronjy RF. Eosinophil and T cell markers predict functional decline in COPD patients. Respir Res 2009; 10:113

- 194. Malhotra D, Thimmulappa R, Vij N, Navas-Acien A, Sussan T, Merali S, Zhang L, Kelsen SG, Myers A, **Wise RA**, Tuder R and Biswal S. Heightened endoplasmic reticulum stress in the lungs of patients with chronic obstructive pulmonary disease: the role of Nrf2-regulated proteasomal activity. Am J Respir Crit Care Med 2009; 180:1196-1207
- 195. Benzo R, Farrell MH, Chang CC, Martinez FJ, Kaplan R, Reilly J, Criner G, **Wise RA**, Make B, Luketich J, Fishman AP, Sciurba FC and NETT Research Group (incl **Wise R**). Integrating health status and survival data: the palliative effect of lung volume reduction surgery. Am J Respir Crit Care Med 2009; 180:239-246
- 196. Berry CE and **Wise RA**. Interpretation of pulmonary function test: issues and controversies. Clin Rev Allergy Immunol 2009; 37:173-180
- 197. Hansel NN, Gao L, Rafaels NM, Mathias RA, Neptune ER, Tankersley C, Grant AV, Connett J, Beaty TH, **Wise R** and Barnes KC. Leptin receptor polymorphisms and lung function decline in COPD. Eur Respir J 2009; 34:103-110
- 198. Wise RA, Bartlett SJ, Brown ED, Castro M, Cohen R, Holbrook JT, Irvin CG, Rand CS, Sockrider MM, Sugar EA and American Lung Association Asthma Clinical Research Centers. Randomized trial of the effect of drug presentation on asthma outcomes: the American Lung Association Asthma Clinical Research Centers. J Allergy Clin Immunol 2009; 124:436-44, 444e1-8
- 199. Lomas DA, Silverman EK, Edwards LD, Locantore NW, Miller BE, Horstman DH, Tal-Singer R and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints study investigators. Serum surfactant protein D is steroid sensitive and associated with exacerbations of COPD. Eur Respir J 2009; 34:95-102
- 200. Hersh CP, Hansel NN, Barnes KC, Lomas DA, Pillai SG, Coxson HO, Mathias RA, Rafaels NM, Wise RA, Connett JE, Klanderman BJ, Jacobson FL, Gill R, Litonjua AA, Sparrow D, Reilly JJ, Silverman EK and ICGN Investigators. Transforming growth factor-beta receptor-3 is associated with pulmonary emphysema. Am J Respir Cell Mol Biol 2009; 41:324-331
- 201. Drummond MB, **Wise RA**, John M, Zvarich MT and McGarvey LP. Accuracy of death certificates in COPD: analysis from the TORCH trial. COPD 2010; 7:179-185
- 202. Giardino ND, Curtis JL, Andrei AC, Fan VS, Benditt JO, Lyubkin M, Naunheim K, Criner G, Make B, **Wise RA**, Murray SK, Fishman AP, Sciurba FC, Liberzon I, Martinez FJ and NETT Research Group (incl **Wise R**). Anxiety is associated with diminished exercise performance and quality of life in severe emphysema: a cross-sectional study. Respir Res 2010; 11:29
- 203. Hansel NN, Sidhaye V, Rafaels NM, Gao L, Gao P, Williams R, Connett JE, Beaty TH, Mathias RA, **Wise RA**, King LS and Barnes KC. Aquaporin 5 polymorphisms and rate of lung function decline in chronic obstructive pulmonary disease. PLoS One 2010; 5:e14226
- 204. Agusti A, Calverley PM, Celli B, Coxson HO, Edwards LD, Lomas DA, MacNee W, Miller BE, Rennard S, Silverman EK, Tal-Singer R, Wouters E, Yates JC, Vestbo J and (ECLIPSE investigators, incl. **Wise R**). Characterisation of COPD heterogeneity in the ECLIPSE cohort. Respir Res 2010; 11:122-9921-11-122
- 205. Reinke C, Bevans-Fonti S, Grigoryev DN, Drager LF, Myers AC, **Wise RA**, Schwartz AR, Mitzner W and Polotsky VY. Chronic Intermittent Hypoxia Induces Lung Growth in Adult Mice. Am J Physiol Lung Cell Mol Physiol 2010;
- 206. Baldwin MR, Checkley W, **Wise RA**, Khatry SK, LeClerq SC and West KP,Jr. A cleaning and calibration method for the SpiroPro portable spirometer's pneumotachometer tube in a remote field study. Respir Care 2010; 55:443-452
- 207. Drummond MB, Kirk GD, Ricketts EP, McCormack MC, Hague JC, McDyer JF, Mehta SH, Engels EA, Wise R and Merlo CA. Cross sectional analysis of respiratory symptoms in an injection drug user cohort: the impact of obstructive lung disease and HIV. BMC Pulm Med 2010; 10:27

- 208. Newman RB, Momirova V, Dombrowski MP, Schatz M, Wise RA, Landon M, Rouse DJ, Lindheimer M, Caritis SN, Sheffield J, Miodovnik M, Wapner RJ, Varner MW, O'Sullivan MJ, Conway DL and Eunice Kennedy Shriver National Institute of Child Health and Human Development Maternal-Fetal Medicine Units (MFMU) Network. The effect of active and passive household cigarette smoke exposure on pregnant women with asthma. Chest 2010; 137:601-608
- 209. Celli B, Vestbo J, Jenkins CR, Jones PW, Ferguson GT, Calverley PM, Yates JC, Anderson JA, Willits LR, **Wise R** and on behalf of the investigators of the TORCH study. Gender Differences in Mortality and Clinical Expressions of Patients with COPD: The TORCH Experience. Am J Respir Crit Care Med 2010;
- 210. Moldenhauer JS, Lai Y, Schatz M, Wise RA, Landon MB, Newman RB, Rouse DJ, Simhan HN, Leveno KJ, Miodovnik M, Lindheimer MD, Wapner RJ, Varner MW, O'Sullivan MJ, Conway DL and Eunice Kennedy Shriver National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network. Influence of maternal asthma and asthma severity on newborn morphometry. J Asthma 2010; 47:145-149
- 211. Pillai SG, Kong X, Edwards LD, Cho MH, Anderson WH, Coxson HO, Lomas DA, Silverman EK and ECLIPSE and ICGN Investigators (incl Wise R). Loci identified by genome-wide association studies influence different disease-related phenotypes in chronic obstructive pulmonary disease. Am J Respir Crit Care Med 2010; 182:1498-1505
- 212. Checkley W, West KP,Jr, **Wise RA**, Baldwin MR, Wu L, LeClerq SC, Christian P, Katz J, Tielsch JM, Khatry S and Sommer A. Maternal vitamin A supplementation and lung function in offspring. N Engl J Med 2010; 362:1784-1794
- 213. Puhan MA, Chandra D, Mosenifar Z, Ries A, Make B, Hansel NN, **Wise RA**, Sciurba F and for the NETT Research Group. The minimal important difference of exercise tests in severe COPD. Eur Respir J 2010;
- 214. Berry CE and Wise RA. Mortality in COPD: Causes, Risk Factors, and Prevention. COPD 2010; 7:375-382
- 215. Washko GR, Martinez FJ, Hoffman EA, Loring SH, Estepar RS, Diaz AA, Sciurba FC, Silverman EK, Han MK, Decamp M, Reilly JJ and National Emphysema Treatment Trial Research Group (incl. Wise, RA). Physiological and computed tomographic predictors of outcome from lung volume reduction surgery. Am J Respir Crit Care Med 2010; 181:494-500
- 216. Han MK, **Wise RA**, Mumford J, Sciurba F, Criner GJ, Curtis JL, Murray S, Sternberg A, Weinman G, Kazerooni E, Fishman AP, Make B, Hoffman EA, Mosenifar Z, Martinez FJ and NETT Research Group (incl **Wise R**). Prevalence and clinical correlates of bronchoreversibility in severe emphysema. Eur Respir J 2010; 35:1048-1056
- 217. Sciurba FC, Ernst A, Herth FJ, Strange C, Criner GJ, Marquette CH, Kovitz KL, Chiacchierini RP, Goldin J, McLennan G and VENT Study Research Group. A randomized study of endobronchial valves for advanced emphysema. N Engl J Med 2010; 363:1233-1244
- 218. Schatz M, Dombrowski MP, Wise RA, Lai Y, Landon M, Newman RB, Rouse DJ, Miodovnik M, O'Sullivan MJ, Caritis SN, Leveno KJ, Wapner RJ, Conway DL and Eunice Kennedy Shriver National Institute Of Child Health And Human Development Maternal-Fetal Medicine Units Network And The National Heart Lung And Blood Institute. The relationship of asthma-specific quality of life during pregnancy to subsequent asthma and perinatal morbidity. J Asthma 2010; 47:46-50
- 219. Hurst JR, Vestbo J, Anzueto A, Locantore N, Mullerova H, Tal-Singer R, Miller B, Lomas DA, Agusti A, Macnee W, Calverley P, Rennard S, Wouters EF, Wedzicha JA and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) investigators (Incl. Wise R). Susceptibility to exacerbation in chronic obstructive pulmonary disease. N Engl J Med 2010; 363:1128-1138

- 220. Krishnan JA, Bender BG, Wamboldt FS, Szefler SJ, Adkinson NF, Jr, Zeiger RS, **Wise RA**, Bilderback AL, Rand CS and Adherence Ancillary Study Group. Adherence to inhaled corticosteroids: An ancillary study of the Childhood Asthma Management Program clinical trial. J Allergy Clin Immunol 2011;
- 221. Drummond MB, Kirk GD, Astemborski J, Marshall MM, Mehta SH, McDyer JF, Brown RH, **Wise R** and Merlo CA. Association between obstructive lung disease and markers of HIV infection in a high-risk cohort. Thorax 2011;
- 222. Hanania NA, King MJ, Braman SS, Saltoun C, Wise RA, Enright P, Falsey AR, Mathur SK, Ramsdell JW, Rogers L, Stempel DA, Lima JJ, Fish JE, Wilson SR, Boyd C, Patel KV, Irvin CG, Yawn BP, Halm EA, Wasserman SI, Sands MF, Ershler WB, Ledford DK and Asthma in Elderly workshop participants. Asthma in the elderly: Current understanding and future research needs--a report of a National Institute on Aging (NIA) workshop. J Allergy Clin Immunol 2011; 128:S4-24
- 223. Vestbo J, Edwards LD, Scanlon PD, Yates JC, Agusti A, Bakke P, Calverley PM, Celli B, Coxson HO, Crim C, Lomas DA, MacNee W, Miller BE, Silverman EK, Tal-Singer R, Wouters E, Rennard SI, ECLIPSE Investigators (incl Wise R) and (incl. Wise R). Changes in forced expiratory volume in 1 second over time in COPD. N Engl J Med 2011; 365:1184-1192
- 224. Reinke C, Bevans-Fonti S, Grigoryev DN, Drager LF, Myers AC, **Wise RA**, Schwartz AR, Mitzner W and Polotsky VY. Chronic intermittent hypoxia induces lung growth in adult mice. Am J Physiol Lung Cell Mol Physiol 2011; 300:L266-73
- 225. Han MK, Kazerooni EA, Lynch DA, Liu LX, Murray S, Curtis JL, Criner GJ, Kim V, Bowler RP, Hanania NA, Anzueto AR, Make BJ, Hokanson JE, Crapo JD, Silverman EK, Martinez FJ, Washko GR and COPDGene Investigators (incl Wise, RA). Chronic obstructive pulmonary disease exacerbations in the COPDGene study: associated radiologic phenotypes. Radiology 2011; 261:274-282
- 226. Hill J, Heslop C, Man SF, Frohlich J, Connett JE, Anthonisen NR, **Wise RA**, Tashkin DP and Sin DD. Circulating surfactant protein-D and the risk of cardiovascular morbidity and mortality. Eur Heart J 2011; 32:1918-1925
- 227. Yoon H, Li Y, Man SF, Tashkin D, **Wise RA**, Connett JE, Anthonisen NA, Churg A, Wright JL and Sin DD. The complex relationship of serum adiponectin to COPD outcomes. Chest 2011;
- 228. Dickens JA, Miller BE, Edwards LD, Silverman EK, Lomas DA, Tal-Singer R and Evaluation of COPD Longitudinally to Identify Surrogate Endpoints (ECLIPSE) study investigators. COPD association and repeatability of blood biomarkers in the ECLIPSE cohort. Respir Res 2011; 12:146
- 229. Malhotra D, Thimmulappa RK, Mercado N, Ito K, Kombairaju P, Kumar S, Ma J, Feller-Kopman D, **Wise RA**, Barnes P and Biswal S. Denitrosylation of HDAC2 by targeting Nrf2 restores glucocorticosteroid sensitivity in macrophages from COPD patients. J Clin Invest 2011; 121:4289-4302
- 230. Lang JE, Hossain J, Dixon AE, Shade D, **Wise RA**, Peters SP, Lima JJ and for the American Lung Association-Asthma Clinical Research Centers. Does Age Impact the Obese Asthma Phenotype?: Longitudinal Asthma Control, Airway Function, and Airflow Perception Among Mild Persistent Asthmatics. Chest 2011; 140:1524-1533
- 231. Robinson CL, Baumann LM, Romero K, Combe JM, Gomez A, Gilman RH, Cabrera L, Gonzalvez G, Hansel NN, Wise RA, Barnes KC, Breysse PN and Checkley W. Effect of urbanisation on asthma, allergy and airways inflammation in a developing country setting. Thorax 2011; 66:1051-1057
- 232. Baumann LM, Robinson CL, Combe JM, Gomez A, Romero K, Gilman RH, Cabrera L, Hansel NN, **Wise RA**, Breysse PN, Barnes K, Hernandez JE and Checkley W. Effects of distance from a heavily transited avenue on asthma and atopy in a periurban shantytown in Lima, Peru. J Allergy Clin Immunol 2011; 127:875-882

- 233. McGrath-Morrow S, Malhotra D, Lauer T, Michael Collaco J, Mitzner W, Neptune E, **Wise R** and Biswal S. Exposure to neonatal cigarette smoke causes durable lung changes but does not potentiate cigarette smoke-induced chronic obstructive pulmonary disease in adult mice. Exp Lung Res 2011; 37:354-363
- 234. Qiu W, Cho MH, Riley JH, Anderson WH, Singh D, Bakke P, Gulsvik A, Litonjua AA, Lomas DA, Crapo JD, Beaty TH, Celli BR, Rennard S, Tal-Singer R, Fox SM, Silverman EK, Hersh CP and ECLIPSE Investigators (incl Wise R). Genetics of sputum gene expression in chronic obstructive pulmonary disease. PLoS One 2011; 6:e24395
- 235. Siedlinski M, Cho MH, Bakke P, Gulsvik A, Lomas DA, Anderson W, Kong X, Rennard SI, Beaty TH, Hokanson JE, Crapo JD, Silverman EK, COPDGene Investigators (incl Wise, RA) and ECLIPSE Investigators (incl **Wise R**). Genome-wide association study of smoking behaviours in patients with COPD. Thorax 2011; 66:894-902
- 236. Mittoo S, Wigley FM, Wise RA, Woods A, Xiao H and Hummers LK. Long term effects of cyclophosphamide treatment on lung function and survival in scleroderma patients with interstitial lung disease. Open Rheumatol J 2011; 5:1-6
- 237. Hegewald MJ, Jensen RL, Teeter JG, **Wise RA**, Riese RJ, England RD, Ahrens RC, Crapo RO and Macintyre NR. Long-Term Intersession Variability for Single-Breath Diffusing Capacity. Respiration 2011;
- 238. Clerisme-Beaty EM, Bartlett SJ, Teague WG, Lima J, Irvin CG, Cohen R, Castro M, **Wise R** and Rand CS. The Madison Avenue effect: How drug presentation style influences adherence and outcome in patients with asthma. J Allergy Clin Immunol 2011; 127:406-411
- 239. Puhan MA, Chandra D, Mosenifar Z, Ries A, Make B, Hansel NN, Wise RA, Sciurba F and for the National Emphysema Treatment Trial (NETT) Research Group. The minimal important difference of exercise tests in severe COPD. Eur Respir J 2011; 37:784-790
- 240. Drummond MB, Kirk GD, Astemborski J, McCormack MC, Marshall MM, Mehta SH, **Wise R** and Merlo CA. Prevalence and risk factors for unrecognized obstructive lung disease among urban drug users. Int J Chron Obstruct Pulmon Dis 2011; 6:89-95
- 241. Crim C, Celli B, Edwards LD, Wouters E, Coxson HO, Tal-Singer R, Calverley PM and ECLIPSE Investigators (incl Wise R). Respiratory system impedance with impulse oscillometry in healthy and COPD subjects: ECLIPSE baseline results. Respir Med 2011; 105:1069-1078
- 242. Drummond MB, Peters SP, Castro M, Holbrook JT, Irvin CG, Smith LJ, **Wise RA**, Sugar EA and for the American Lung Association Asthma Clinical Research Center Research Group. Risk Factors for Montelukast Treatment Failure in Step-Down Therapy for Controlled Asthma. J Asthma 2011; 48:1051-1057
- 243. Sin DD, Miller BE, Duvoix A, Man SF, Zhang X, Silverman EK, Connett JE, Anthonisen NA, Wise RA, Tashkin D, Celli BR, Edwards LD, Locantore N, Macnee W, Tal-Singer R, Lomas DA and ECLIPSE Investigators (incl Wise R). Serum PARC/CCL-18 concentrations and health outcomes in chronic obstructive pulmonary disease. Am J Respir Crit Care Med 2011; 183:1187-1192
- 244. Celli B, Vestbo J, Jenkins CR, Jones PW, Ferguson GT, Calverley PM, Yates JC, Anderson JA, Willits LR, **Wise R** and on behalf of the investigators of the TORCH study. Sex Differences in Mortality and Clinical Expressions of Patients with Chronic Obstructive Pulmonary Disease: The TORCH Experience. Am J Respir Crit Care Med 2011; 183:317-322
- 245. Checkley W, West KP,Jr, **Wise RA**, Wu L, Leclerq SC, Khatry S, Katz J, Christian P, Tielsch JM and Sommer A. Supplementation with vitamin A early in life and subsequent risk of asthma. Eur Respir J 2011; 38:1310-1319

- 246. Harvey CJ, Thimmulappa RK, Sethi S, Kong X, Yarmus L, Brown RH, Feller-Kopman D, **Wise R** and Biswal S. Targeting Nrf2 Signaling Improves Bacterial Clearance by Alveolar Macrophages in Patients with COPD and in a Mouse Model. Sci Transl Med 2011; 3:78ra32
- 247. Krishnan JA, Bender BG, Wamboldt FS, Szefler SJ, Adkinson NF, Jr, Zeiger RS, **Wise RA**, Bilderback AL, Rand CS and Adherence Ancillary Study Group. Adherence to inhaled corticosteroids: an ancillary study of the Childhood Asthma Management Program clinical trial. J Allergy Clin Immunol 2012; 129:112-118
- 248. Podowski M, Calvi C, Metzger S, Misono K, Poonyagariyagorn H, Lopez-Mercado A, Ku T, Lauer T, McGrath-Morrow S, Berger A, Cheadle C, Tuder R, Dietz HC, Mitzner W, **Wise R** and Neptune E. Angiotensin receptor blockade attenuates cigarette smoke-induced lung injury and rescues lung architecture in mice. J Clin Invest 2012; 122:229-240
- 249. Drummond MB, Kirk GD, Astemborski J, Marshall MM, Mehta SH, McDyer JF, Brown RH, Wise R and Merlo CA. Association between obstructive lung disease and markers of HIV infection in a high-risk cohort. Thorax 2012; 67:309-314
- 250. Tepper RS, **Wise RA**, Covar R, Irvin CG, Kercsmar CM, Kraft M, Liu MC, O'Connor GT, Peters SP, Sorkness R and Togias A. Asthma outcomes: pulmonary physiology. J Allergy Clin Immunol 2012; 129:S65-87
- 251. Bime C, Wei CY, Holbrook JT, Sockrider MM, Revicki DA and **Wise RA.** Asthma symptom utility index: reliability, validity, responsiveness, and the minimal important difference in adult asthmatic patients. J Allergy Clin Immunol 2012; 130:1078-1084
- 252. Shah AA, Chung SE, Wigley FM, **Wise R** and Hummers LK. Changes in estimated right ventricular systolic pressure predict mortality and pulmonary hypertension in a cohort of scleroderma patients. Ann Rheum Dis 2012;
- 253. Yoon HI, Li Y, Man SF, Tashkin D, **Wise RA**, Connett JE, Anthonisen NA, Churg A, Wright JL and Sin DD. The complex relationship of serum adiponectin to COPD outcomes COPD and adiponectin. Chest 2012; 142:893-899
- 254. Tse SM, Kelly HW, Litonjua AA, Van Natta ML, Weiss ST, Tantisira KG and Childhood Asthma Management Program Research Group (incl **Wise R**). Corticosteroid use and bone mineral accretion in children with asthma: effect modification by vitamin D. J Allergy Clin Immunol 2012; 130:53-60.e4
- 255. Lockett AD, Van Demark M, Gu Y, Schweitzer KS, Sigua N, Kamocki K, Fijalkowska I, Garrison J, Fisher AJ, Serban K, **Wise RA**, Flotte TR, Mueller C, Presson RG,Jr, Petrache HI, Tuder RM and Petrache I. Effect of cigarette smoke exposure and structural modifications on the alpha-1 Antitrypsin interaction with caspases. Mol Med 2012; 18:445-454
- 256. Kelly HW, Sternberg AL, Lescher R, Fuhlbrigge AL, Williams P, Zeiger RS, Raissy HH, Van Natta ML, Tonascia J, Strunk RC and CAMP Research Group (incl **Wise R**). Effect of inhaled glucocorticoids in childhood on adult height. N Engl J Med 2012; 367:904-912
- 257. Checkley W, Robinson CL, Baumann LM, Romero K, Combe JM, Gilman RH, **Wise RA**, Hamilton RG, Gonzalvez G, Cama V, Hansel NN and PURA study investigators. Effect of urbanization on the relation of total serum immunoglobulin E to asthma. Eur Respir J 2012;
- 258. Wu AC, Tantisira K, Li L, Fuhlbrigge AL, Weiss ST, Litonjua A and Childhood Asthma Management Program Research Group (incl **Wise R**). Effect of vitamin D and inhaled corticosteroid treatment on lung function in children. Am J Respir Crit Care Med 2012; 186:508-513
- 259. Kim DK, Cho MH, Hersh CP, Lomas DA, Miller BE, Kong X, Bakke P, Gulsvik A, Agusti A, Wouters E, Celli B, Coxson H, Vestbo J, MacNee W, Yates JC, Rennard S, Litonjua A, Qiu W, Beaty TH, Crapo JD, Riley JH, Tal-Singer R, Silverman EK and ECLIPSE, ICGN, and COPDGene Investigators (incl **Wise R**). Genome-wide

association analysis of blood biomarkers in chronic obstructive pulmonary disease. Am J Respir Crit Care Med 2012; 186:1238-1247

- 260. Cho MH, Castaldi PJ, Wan ES, Siedlinski M, Hersh CP, Demeo DL, Himes BE, Sylvia JS, Klanderman BJ, Ziniti JP, Lange C, Litonjua AA, Sparrow D, Regan EA, Make BJ, Hokanson JE, Murray T, Hetmanski JB, Pillai SG, Kong X, Anderson WH, Tal-Singer R, Lomas DA, Coxson HO, Edwards LD, MacNee W, Vestbo J, Yates JC, Agusti A, Calverley PM, Celli B, Crim C, Rennard S, Wouters E, Bakke P, Gulsvik A, Crapo JD, Beaty TH, Silverman EK, ICGN Investigators, ECLIPSE Investigators (incl Wise R) and COPDGene Investigators (Incl. Wise R). A genome-wide association study of COPD identifies a susceptibility locus on chromosome 19q13. Hum Mol Genet 2012; 21:947-957
- 261. Writing Committee for the American Lung Association Asthma Clinical Research Centers, Holbrook JT, **Wise RA**, Gold BD, Blake K, Brown ED, Castro M, Dozor AJ, Lima JJ, Mastronarde JG, Sockrider MM and Teague WG. Lansoprazole for children with poorly controlled asthma: a randomized controlled trial. JAMA 2012; 307:373-381
- 262. Sumino K, Sugar EA, Irvin CG, Kaminsky DA, Shade D, Wei CY, Holbrook JT, **Wise RA**, Castro M and American Lung Association Asthma Clinical Research Centers. Methacholine challenge test: diagnostic characteristics in asthmatic patients receiving controller medications. J Allergy Clin Immunol 2012; 130:69-75.e6
- 263. Mathai SC, Puhan MA, Lam D and **Wise RA.** The minimal important difference in the 6-minute walk test for patients with pulmonary arterial hypertension. Am J Respir Crit Care Med 2012; 186:428-433
- 264. Hummers LK, Dugowson CE, Dechow FJ, **Wise RA**, Gregory J, Michalek J, Yenokyan G, McGready J and Wigley FM. A multi-centre, blinded, randomised, placebo-controlled, laboratory-based study of MQX-503, a novel topical gel formulation of nitroglycerine, in patients with Raynaud phenomenon. Ann Rheum Dis 2012;
- 265. Lang JE, Holbrook JT, **Wise RA**, Dixon AE, Teague WG, Wei CY, Irvin CG, Shade D, Lima JJ and for the American Lung Association-Asthma Clinical Research Centers. Obesity in children with poorly controlled asthma: Sex differences. Pediatr Pulmonol 2012;
- 266. Chandra D, **Wise RA**, Kulkarni HS, Benzo RP, Criner G, Make B, Slivka WA, Ries AL, Reilly JJ, Martinez FJ, Sciurba FC and NETT Research Group (incl **Wise R**). Optimizing the 6-min walk test as a measure of exercise capacity in COPD. Chest 2012; 142:1545-1552
- 267. Agusti A, Edwards LD, Rennard SI, MacNee W, Tal-Singer R, Miller BE, Vestbo J, Lomas DA, Calverley PM, Wouters E, Crim C, Yates JC, Silverman EK, Coxson HO, Bakke P, Mayer RJ, Celli B and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) Investigators (incl R Wise). Persistent systemic inflammation is associated with poor clinical outcomes in COPD: a novel phenotype. PLoS One 2012; 7:e37483
- 268. Mougey EB, Chen C, Tantisira KG, Blake KV, Peters SP, **Wise RA**, Weiss ST and Lima JJ. Pharmacogenetics of asthma controller treatment. Pharmacogenomics J 2012;
- 269. Spruit MA, Polkey MI, Celli B, Edwards LD, Watkins ML, Pinto-Plata V, Vestbo J, Calverley PM, Tal-Singer R, Agusti A, Coxson HO, Lomas DA, MacNee W, Rennard S, Silverman EK, Crim CC, Yates J, Wouters EF and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) Study Investigators (incl Wise, RA). Predicting outcomes from 6-minute walk distance in chronic obstructive pulmonary disease. J Am Med Dir Assoc 2012; 13:291-297
- 270. Wells JM, Washko GR, Han MK, Abbas N, Nath H, Mamary AJ, Regan E, Bailey WC, Martinez FJ, Westfall E, Beaty TH, Curran-Everett D, Curtis JL, Hokanson JE, Lynch DA, Make BJ, Crapo JD, Silverman EK, Bowler RP, Dransfield MT, COPDGene Investigators and ECLIPSE Study Investigators (incl. Wise R). Pulmonary arterial enlargement and acute exacerbations of COPD. N Engl J Med 2012; 367:913-921

- 271. Berry CE, Drummond MB, Han MK, Li D, Fuller C, Limper AH, Martinez FJ, Schwarz MI, Sciurba FC and Wise RA. Relationship between lung function impairment and health-related quality of life in COPD and interstitial lung disease. Chest 2012; 142:704-711
- 272. Drummond MB, Hansel NN, Connett JE, Scanlon PD, Tashkin DP and Wise RA. Spirometric predictors of lung function decline and mortality in early chronic obstructive pulmonary disease. Am J Respir Crit Care Med 2012; 185:1301-1306
- 273. Kim V, Kretschman DM, Sternberg AL, DeCamp MM, Jr, Criner GJ and National Emphysema Treatment Trial Research Group (incl Wise R). Weight gain after lung reduction surgery is related to improved lung function and ventilatory efficiency. Am J Respir Crit Care Med 2012; 186:1109-1116
- 274. Mougey E, Lang JE, Allayee H, Teague WG, Dozor AJ, **Wise R** and Lima JJ. ALOX5 Polymorphism associates with increased leukotriene production and reduced lung function and asthma control in children with poorly controlled asthma. Clin Exp Allergy 2013; 43:512-520
- 275. Lang JE, Dozor AJ, Holbrook JT, Mougey E, Krishnan S, Sweeten S, Wise RA, Teague WG, Wei CY, Shade D, Lima JJ and American Lung Association-Asthma Clinical Research Centers. Biologic mechanisms of environmental tobacco smoke in children with poorly controlled asthma: results from a multicenter clinical trial. J Allergy Clin Immunol Pract 2013; 1:172-180
- 276. Agusti A, Edwards LD, Celli B, Macnee W, Calverley PM, Mullerova H, Lomas DA, Wouters E, Bakke P, Rennard S, Crim C, Miller BE, Coxson HO, Yates JC, Tal-Singer R, Vestbo J and ECLIPSE Investigators (incl Wise R). Characteristics, stability and outcomes of the 2011 GOLD COPD groups in the ECLIPSE cohort. Eur Respir J 2013; 42:636-646
- 277. Miller J, Edwards LD, Agusti A, Bakke P, Calverley PM, Celli B, Coxson HO, Crim C, Lomas DA, Miller BE, Rennard S, Silverman EK, Tal-Singer R, Vestbo J, Wouters E, Yates JC, Macnee W and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) investigators (Incl. Wise R). Comorbidity, systemic inflammation and outcomes in the ECLIPSE cohort. Respir Med 2013; 107:1376-1384
- 278. Romme EA, Murchison JT, Edwards LD, van Beek E,Jr, Murchison DM, Rutten EP, Smeenk FW, Williams MC, Wouters EF, MacNee W and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) Study Investigators (incl Wise, RA). CT-measured bone attenuation in patients with chronic obstructive pulmonary disease: relation to clinical features and outcomes. J Bone Miner Res 2013; 28:1369-1377
- 279. Cottrell TR, **Wise RA**, Wigley FM and Boin F. The degree of skin involvement identifies distinct lung disease outcomes and survival in systemic sclerosis. Ann Rheum Dis 2013;
- 280. Siedlinski M, Tingley D, Lipman PJ, Cho MH, Litonjua AA, Sparrow D, Bakke P, Gulsvik A, Lomas DA, Anderson W, Kong X, Rennard SI, Beaty TH, Hokanson JE, Crapo JD, Lange C, Silverman EK and COPDGene and ECLIPSE Investigators. Dissecting direct and indirect genetic effects on chronic obstructive pulmonary disease (COPD) susceptibility. Hum Genet 2013; 132:431-441
- 281. Drummond MB, Merlo CA, Astemborski J, Kalmin MM, Kisalu A, Mcdyer JF, Mehta SH, Brown RH, Wise R and Kirk GD. The effect of HIV infection on longitudinal lung function decline among IDUs: a prospective cohort. AIDS 2013; 27:1303-1311
- 282. Benzo R, Siemion W, Novotny P, Sternberg A, Kaplan RM, Ries A, **Wise RA**, Martinez F, Utz J, Sciurba F and National Emphysema Treatment Trial (NETT) Research Group (incl **Wise R**). Factors to Inform Clinicians About the End of Life in Severe Chronic Obstructive Pulmonary Disease. J Pain Symptom Manage 2013;

- 283. Brown RH, Brooker A, **Wise RA**, Reynolds C, Loccioni C, Russo A and Risby TH. Forced expiratory capnography and chronic obstructive pulmonary disease (COPD). J Breath Res 2013; 7:017108-7155/7/1/017108. Epub 2013 Feb 27
- 284. Fischer Ii WA, Drummond MB, Merlo CA, Thomas DL, Brown R, Mehta SH, **Wise R** and Kirk GD. Hepatitis C Virus Infection Is Not An Independent Risk Factor For Obstructive Lung Disease. COPD 2013;
- 285. Gietema HA, Edwards LD, Coxson HO, Bakke PS and ECLIPSE Investigators (incl. **Wise R**). Impact of emphysema and airway wall thickness on quality of life in smoking-related COPD. Respir Med 2013; 107:1201-1209
- 286. D'Armiento JM, Goldklang MP, Hardigan AA, Geraghty P, Roth MD, Connett JE, Wise RA, Sciurba FC, Scharf SM, Thankachen J, Islam M, Ghio AJ and Foronjy RF. Increased matrix metalloproteinase (MMPs) levels do not predict disease severity or progression in emphysema. PLoS One 2013; 8:e56352
- 287. Hummers LK, Dugowson CE, Dechow FJ, **Wise RA**, Gregory J, Michalek J, Yenokyan G, McGready J and Wigley FM. A multi-centre, blinded, randomised, placebo-controlled, laboratory-based study of MQX-503, a novel topical gel formulation of nitroglycerine, in patients with Raynaud phenomenon. Ann Rheum Dis 2013; 72:1962-1967
- 288. Shah AA, Schiopu E, Hummers LK, Wade M, Phillips K, Anderson C, Wise RA, Boin F, Seibold JR, Wigley F and Rollins KD. Open label study of escalating doses of oral treprostinil diethanolamine in patients with systemic sclerosis and digital ischemia: pharmacokinetics and correlation with digital perfusion. Arthritis Res Ther 2013; 15:R54
- 289. Hansel NN, Washko GR, Foreman MG, Han MK, Hoffman EA, Demeo DL, Barr RG, Van Beek EJ, Kazerooni EA, Wise RA, Brown RH, Black-Shinn J, Hokanson JE, Hanania NA, Make B, Silverman EK, Crapo JD and Dransfield For The Copdgene Investigators, M.T. Racial Differences in CT Phenotypes in COPD. COPD 2013; 10:20-27
- 290. Park HY, Man SF, Tashkin D, **Wise RA**, Connett JE, Anthonisen NA and Sin DD. The Relation of Serum Myeloperoxidase to Disease Progression and Mortality in Patients with Chronic Obstructive Pulmonary Disease (COPD). PLoS One 2013; 8:e61315
- 291. Drummond MB and **Wise RA.** Reply: Prognostic value of functional decline in middle-aged smokers. Am J Respir Crit Care Med 2013; 187:1029
- 292. Cheng DT, Kim DK, Cockayne DA, Belousov A, Bitter H, Cho MH, Duvoix A, Edwards LD, Lomas DA, Miller BE, Reynaert N, Tal-Singer R, Wouters EF, Agusti A, Fabbri LM, Rames A, Visvanathan S, Rennard SI, Jones P, Parmar H, MacNee W, Wolff G, Silverman EK, Mayer RJ, Pillai SG and TESRA and ECLIPSE Investigators (incl Wise, R.A.). Systemic soluble receptor for advanced glycation endproducts is a biomarker of emphysema and associated with AGER genetic variants in patients with chronic obstructive pulmonary disease. Am J Respir Crit Care Med 2013; 188:948-957
- 293. Wise RA, Anzueto A, Cotton D, Dahl R, Devins T, Disse B, Dusser D, Joseph E, Kattenbeck S, Koenen-Bergmann M, Pledger G, Calverley P and TIOSPIR Investigators. Tiotropium Respimat inhaler and the risk of death in COPD. N Engl J Med 2013; 369:1491-1501
- 294. Wise RA, Anzueto A, Calverley P, Dahl R, Dusser D, Pledger G, Koenen-Bergmann M, Joseph E, Cotton D and Disse B. The Tiotropium Safety and Performance in Respimat(R) Trial (TIOSPIR(R)), a large scale, randomized, controlled, parallel-group trial-design and rationale. Respir Res 2013; 14:40-9921-14-40
- 295. Cooper CB, Celli BR, Jardim JR, **Wise RA**, Legg D, Guo J and Kesten S. Treadmill Endurance During 2-Year Treatment With Tiotropium in Patients With COPD: A Randomized Trial. Chest 2013; 144:490-497

- 296. Nguyen JM, Holbrook JT, Wei CY, Gerald LB, Teague WG, **Wise R** and on behalf of the American Lung Association Asthma Clinical Research Centers. Validation and psychometric properties of the Asthma Control Questionnaire among children. J Allergy Clin Immunol 2013;
- 297. Checkley W, Robinson CL, Baumann LM, Hansel NN, Romero K, Pollard SL, **Wise RA**, Gilman RH, Mougey E, Lima JJ and PURA study investigators. 25-hydroxy vitamin D levels are associated with childhood asthma in a population-based study in Peru. Clin Exp Allergy 2014;
- 298. Popescu I, Drummond MB, Gama L, Coon T, Merlo CA, **Wise RA**, Clements JE, Kirk GD and McDyer JF. Activation-induced cell death drives profound lung CD4(+) T-cell depletion in HIV-associated chronic obstructive pulmonary disease. Am J Respir Crit Care Med 2014; 190:744-755
- 299. Kim V, Desai P, Newell JD, Make BJ, Washko GR, Silverman EK, Crapo JD, Bhatt SP, Criner GJ and COPDGene Investigators (incl Wise, RA). Airway wall thickness is increased in COPD patients with bronchodilator responsiveness. Respir Res 2014; 15:84-014-0084-3
- 300. Drummond MB, Buist AS, Crapo JD, **Wise R** and Rennard SI. Chronic obstructive pulmonary disease: NHLBI Workshop on the Primary Prevention of Chronic Lung Diseases. Ann Am Thorac Soc 2014; 11 Suppl 3:S154-60
- 301. Putcha N, Drummond MB, Connett JE, Scanlon PD, Tashkin DP, Hansel NN and **Wise RA.** Chronic productive cough is associated with death in smokers with early COPD. COPD 2014; 11:451-458
- 302. Howrylak JA, Fuhlbrigge AL, Strunk RC, Zeiger RS, Weiss ST, Raby BA and Childhood Asthma Management Program Research Group (incl Wise, RA). Classification of childhood asthma phenotypes and long-term clinical responses to inhaled anti-inflammatory medications. J Allergy Clin Immunol 2014; 133:1289-300, 1300.e1-12
- 303. Lambert AA, Kirk GD, Astemborski J, Neptune ER, Mehta SH, **Wise R** and Drummond MB. A Cross Sectional Analysis of the Role of the Antimicrobial Peptide Cathelicidin in Lung Function Impairment within the ALIVE Cohort. PLoS One 2014; 9:e95099
- 304. Caffrey D, Miranda JJ, Gilman RH, Davila-Roman VG, Cabrera L, Dowling R, Stewart T, Bernabe-Ortiz A, Wise RA, Leon-Velarde F, Checkley W and CRONICAS Cohort Study Group. A cross-sectional study of differences in 6-min walk distance in healthy adults residing at high altitude versus sea level. Extrem Physiol Med 2014; 3:3-7648-3-3
- 305. American Lung Association-Asthma Clinical Research Centers' Writing Committee:, Dixon AE, Castro M, Cohen RI, Gerald LB, Holbrook JT, Irvin CG, Mohapatra S, Peters SP, Rayapudi S, Sugar EA and Wise RA. Efficacy of nasal mometasone for the treatment of chronic sinonasal disease in patients with inadequately controlled asthma. J Allergy Clin Immunol 2014;
- 306. Fitzpatrick AM, Holbrook JT, Wei CY, Brown MS, Wise RA, Teague WG and American Lung Association's Asthma Clinical Research Centers Network. Exhaled breath condensate pH does not discriminate asymptomatic gastroesophageal reflux or the response to lansoprazole treatment in children with poorly controlled asthma. J Allergy Clin Immunol Pract 2014; 2:579-86.e7
- 307. Mathai SC, Hassoun PM, Puhan MA, Zhou Y and **Wise RA.** Gender Differences in Response to Tadalafil in Pulmonary Arterial Hypertension. Chest 2014;
- 308. Hansel NN, Pare PD, Rafaels N, Sin D, Sandford A, Daley D, Vergara C, Huang L, Elliott WM, Pascoe CD, Arsenault BA, Postma DS, Boezen HM, Bosse Y, van den Berge M, Hiemstra PS, Cho MH, Litonjua AA, Sparrow D, Ober C, Wise RA, Connett J, Neptune ER, Beaty TH, Ruczinski I, Mathias R, Barnes KC and on behalf of the Lung Health Study. Genome Wide Association Study Identifies Novel Loci Associated with Airway Responsiveness in COPD. Am J Respir Cell Mol Biol 2014;

- 309. Wood DE, Nader DA, Springmeyer SC, Elstad MR, Coxson HO, Chan A, Rai NS, Mularski RA, Cooper CB, Wise RA, Jones PW, Mehta AC, Gonzalez X, Sterman DH and IBV Valve Trial Research Team. The IBV Valve trial: a multicenter, randomized, double-blind trial of endobronchial therapy for severe emphysema. J Bronchology Interv Pulmonol 2014; 21:288-297
- 310. Kapadia SG, Wei C, Bartlett SJ, Lang J, Wise RA, Dixon AE and American Lung Association Asthma Clinical Research Centers. Obesity and symptoms of depression contribute independently to the poor asthma control of obesity. Respir Med 2014; 108:1100-1107
- 311. Berry CE, Han MK, Thompson B, Limper AH, Martinez FJ, Schwarz MI, Sciurba FC, Criner GJ and Wise RA. Older Adults with Chronic Lung Disease Report Less Limitation Compared to Younger Adults with Similar Lung Function Impairment. Ann Am Thorac Soc 2014;
- 312. Baumann LM, Romero KM, Robinson CL, Hansel NN, Gilman RH, Hamilton RG, Lima JJ, **Wise RA**, Checkley W and PURA Study Investigators. Prevalence and risk factors for allergic rhinitis in two resource-limited settings in Peru with disparate degrees of urbanization. Clin Exp Allergy 2014;
- 313. Drummond MB, Astemborski J, Lambert AA, Goldberg S, Stitzer ML, Merlo CA, Rand CS, **Wise R** and Kirk GD. A randomized study of contingency management and spirometric lung age for motivating smoking cessation among injection drug users. BMC Public Health 2014; 14:761-2458-14-761
- 314. Cho MH, McDonald ML, Zhou X, Mattheisen M, Castaldi PJ, Hersh CP, Demeo DL, Sylvia JS, Ziniti J, Laird NM, Lange C, Litonjua AA, Sparrow D, Casaburi R, Barr RG, Regan EA, Make BJ, Hokanson JE, Lutz S, Dudenkov TM, Farzadegan H, Hetmanski JB, Tal-Singer R, Lomas DA, Bakke P, Gulsvik A, Crapo JD, Silverman EK, Beaty TH and NETT Genetics, ICGN, ECLIPSE and COPDGene Investigators (incl **Wise R**). Risk loci for chronic obstructive pulmonary disease: a genome-wide association study and meta-analysis. Lancet Respir Med 2014; 2:214-225
- 315. Putcha N, Puhan MA, Drummond MB, Han MK, Regan EA, Hanania NA, Martinez CH, Foreman M, Bhatt SP, Make B, Ramsdell J, DeMeo DL, Barr RG, Rennard SI, Martinez F, Silverman EK, Crapo J, Wise R and Hansel NN. A Simplified Score to Quantify Comorbidity in COPD. PLoS One 2014; 9:e114438
- 316. Wise RA. Tiotropium and the risk of death in COPD. N Engl J Med 2014; 370:482
- 317. Sumino K, Sugar EA, Irvin CG, Kaminsky DA, Shade D, Wei CY, Holbrook JT, Wise RA, Castro M and Writing Committee for the American Lung Association Asthma Clinical Research Centers. Variability of methacholine bronchoprovocation and the effect of inhaled corticosteroids in mild asthma. Ann Allergy Asthma Immunol 2014; 112:354-360.e1
- 318. Strunk RC, Colvin R, Bacharier LB, Fuhlbrigge A, Forno E, Arbelaez AM, Tantisira KG and Childhood Asthma Management Program Research Group (incl Wise, RA). Airway Obstruction Worsens in Young Adults with Asthma Who Become Obese. J Allergy Clin Immunol Pract 2015; 3:765-71.e2
- 319. Benson VS, Mullerova H, Vestbo J, Wedzicha JA, Patel A, Hurst JR and Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) Investigators (Incl. Wise R). Associations between gastrooesophageal reflux, its management and exacerbations of chronic obstructive pulmonary disease. Respir Med 2015; 109:1147-1154
- 320. Stewart T, Caffrey DG, Gilman RH, Mathai SC, Lerner A, Hernandez A, Pinto ME, Huaylinos Y, Cabrera L, Wise RA, Miranda JJ and Checkley W. Can a simple test of functional capacity add to the clinical assessment of diabetes? Diabet Med 2015;
- 321. Stoller JK, Aboussouan LS, Kanner RE, Wilson LA, Diaz P, **Wise R** and LOTT Research Group. Characteristics of Alpha-1 Antitrypsin-Deficient Individuals in the Long-term Oxygen Treatment Trial and Comparison with Other Subjects with Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2015; 12:1796-1804

- 322. Hayden LP, Hobbs BD, Cohen RT, **Wise RA**, Checkley W, Crapo JD, Hersh CP and COPDGene Investigators. Childhood pneumonia increases risk for chronic obstructive pulmonary disease: the COPDGene study. Respir Res 2015; 16:115-015-0273-8
- 323. Caravedo MA, Herrera PM, Mongilardi N, de Ferrari A, Davila-Roman VG, Gilman RH, **Wise RA**, Miele CH, Miranda JJ and Checkley W. Chronic exposure to biomass fuel smoke and markers of endothelial inflammation. Indoor Air 2015;
- 324. Regan EA, Lynch DA, Curran-Everett D, Curtis JL, Austin JH, Grenier PA, Kauczor HU, Bailey WC, DeMeo DL, Casaburi RH, Friedman P, Van Beek EJ, Hokanson JE, Bowler RP, Beaty TH, Washko GR, Han MK, Kim V, Kim SS, Yagihashi K, Washington L, McEvoy CE, Tanner C, Mannino DM, Make BJ, Silverman EK, Crapo JD and COPDGene Investigators (Incl. Wise R). Clinical and Radiologic Disease in Smokers With Normal Spirometry. JAMA Intern Med 2015; 175:1539-1549
- 325. Putcha N, Drummond MB, **Wise R** and Hansel NN. Comorbidities and Chronic Obstructive Pulmonary Disease: Prevalence, Influence on Outcomes, and Management. Semin Respir Crit Care Med 2015; 36:575-591
- 326. Lambert A, Drummond MB, Wei C, Irvin C, Kaminsky D, McCormack M and **Wise RA.** Diagnostic accuracy of FEV/forced vital capacity ratio z scores in asthmatic patients. J Allergy Clin Immunol 2015;
- 327. Smith LJ, Kalhan R, **Wise RA**, Sugar EA, Lima JJ, Irvin CG, Dozor AJ, Holbrook JT and American Lung Association Asthma Clinical Research Centers. Effect of a soy isoflavone supplement on lung function and clinical outcomes in patients with poorly controlled asthma: a randomized clinical trial. JAMA 2015; 313:2033-2043
- 328. Hardin M, Cho MH, McDonald ML, Wan E, Lomas DA, Coxson HO, MacNee W, Vestbo J, Yates JC, Agusti A, Calverley PM, Celli B, Crim C, Rennard S, Wouters E, Bakke P, Bhatt SP, Kim V, Ramsdell J, Regan EA, Make BJ, Hokanson JE, Crapo JD, Beaty TH, Hersh CP and ECLIPSE and COPDGene Investigators (incl. Wise, RA). A genome-wide analysis of the response to inhaled beta-agonists in chronic obstructive pulmonary disease. Pharmacogenomics J 2015;
- 329. Lutz SM, Cho MH, Young K, Hersh CP, Castaldi PJ, McDonald ML, Regan E, Mattheisen M, DeMeo DL, Parker M, Foreman M, Make BJ, Jensen RL, Casaburi R, Lomas DA, Bhatt SP, Bakke P, Gulsvik A, Crapo JD, Beaty TH, Laird NM, Lange C, Hokanson JE, Silverman EK, ECLIPSE Investigators (incl. Wise R) and COPDGene Investigators (Incl. Wise R). A genome-wide association study identifies risk loci for spirometric measures among smokers of European and African ancestry. BMC Genet 2015; 16:138-015-0299-4
- 330. Lambert AA, Kirk GD, Astemborski J, Mehta SH, **Wise R** and Drummond MB. HIV Infection Is Associated With Increased Risk for Acute Exacerbation of COPD. J Acquir Immune Defic Syndr 2015; 69:68-74
- 331. Lang JE, Holbrook JT, Mougey EB, Wei CY, **Wise RA**, Teague WG, Lima JJ and American Lung Association-Airways Clinical Research Centers. Lansoprazole Is Associated with Worsening Asthma Control in Children with the CYP2C19 Poor Metabolizer Phenotype. Ann Am Thorac Soc 2015; 12:878-885
- 332. Brown RH, **Wise RA**, Kirk G, Drummond MB and Mitzner W. Lung density changes with growth and inflation. Chest 2015;
- 333. Park SJ, Foreman MG, Demeo DL, Bhatt SP, Hansel NN, Wise RA, Soler X and Bowler RP. Menthol cigarette smoking in the COPDGene cohort: Relationship with COPD, comorbidities and CT metrics. Respirology 2015; 20:108-114
- 334. Vyas KJ, Danz D, Gilman RH, **Wise RA**, Leon-Velarde F, Miranda JJ and Checkley W. Noninvasive Assessment of Excessive Erythrocytosis as a Screening Method for Chronic Mountain Sickness at High Altitude. High Alt Med Biol 2015; 16:162-168

- 335. Celli BR, Decramer M, Wedzicha JA, Wilson KC, Agusti AA, Criner GJ, MacNee W, Make BJ, Rennard SI, Stockley RA, Vogelmeier C, Anzueto A, Au DH, Barnes PJ, Burgel PR, Calverley PM, Casanova C, Clini EM, Cooper CB, Coxson HO, Dusser DJ, Fabbri LM, Fahy B, Ferguson GT, Fisher A, Fletcher MJ, Hayot M, Hurst JR, Jones PW, Mahler DA, Maltais F, Mannino DM, Martinez FJ, Miravitlles M, Meek PM, Papi A, Rabe KF, Roche N, Sciurba FC, Sethi S, Siafakas N, Sin DD, Soriano JB, Stoller JK, Tashkin DP, Troosters T, Verleden GM, Verschakelen J, Vestbo J, Walsh JW, Washko GR, Wise RA, Wouters EF, ZuWallack RL and ATS/ERS Task Force for COPD Research. An official American Thoracic Society/European Respiratory Society statement: research questions in COPD. Eur Respir Rev 2015; 24:159-172
- 336. Jaganath D, Miranda JJ, Gilman RH, **Wise RA**, Diette GB, Miele CH, Bernabe-Ortiz A, Checkley W and CRONICAS Cohort Study Group. Prevalence of chronic obstructive pulmonary disease and variation in risk factors across four geographically diverse resource-limited settings in Peru. Respir Res 2015; 16:40-015-0198-2
- 337. Jaramillo JD, Wilson C, Stinson DJ, Lynch DA, Bowler RP, Lutz S, Bon JM, Arnold B, McDonald ML, Washko GR, Wan ES, DeMeo DL, Foreman MG, Soler X, Lindsay SE, Lane NE, Genant HK, Silverman EK, Hokanson JE, Make BJ, Crapo JD, Regan EA and COPDGene Investigators (Incl. Wise R). Reduced Bone Density and Vertebral Fractures in Smokers. Men and COPD Patients at Increased Risk. Ann Am Thorac Soc 2015; 12:648-656
- 338. Sze MA, Chen YW, Tam S, Tashkin D, **Wise RA**, Connett JE, Man SP and Sin DD. The relationship between Helicobacter pylori seropositivity and COPD. Thorax 2015;
- 339. Dahl R, Calverley PM, Anzueto A, Metzdorf N, Fowler A, Mueller A, **Wise R** and Dusser D. Safety and efficacy of tiotropium in patients switching from HandiHaler to Respimat in the TIOSPIR trial. BMJ Open 2015; 5:e009015-2015-009015
- 340. Wise RA, Calverley PM, Dahl R, Dusser D, Metzdorf N, Muller A, Fowler A and Anzueto A. Safety and efficacy of tiotropium Respimat versus HandiHaler in patients naive to treatment with inhaled anticholinergics: a post hoc analysis of the TIOSPIR trial. NPJ Prim Care Respir Med 2015; 25:15067
- 341. Anzueto A, **Wise RA**, Calverley P, Dusser D, Tang W, Metzdorf N and Dahl R. The Tiotropium Safety and Performance in Respirat(R) (TIOSPIR(R)) Trial: Spirometry Outcomes. Respir Res 2015; 16:107-015-0269-4
- 342. Miele CH, Jaganath D, Miranda JJ, Bernabe-Ortiz A, Gilman RH, Johnson CM, Diette GB, **Wise RA**, Checkley W and CRONICAS Cohort Study Group. Urbanization and Daily Exposure to Biomass Fuel Smoke Both Contribute to Chronic Bronchitis Risk in a Population with Low Prevalence of Daily Tobacco Smoking. COPD 2015; 1-10
- 343. Blake K, Holbrook JT, Antal H, Shade D, Bunnell HT, McCahan SM, **Wise RA**, Pennington C, Garfinkel P and Wysocki T. Use of mobile devices and the internet for multimedia informed consent delivery and data entry in a pediatric asthma trial: Study design and rationale. Contemp Clin Trials 2015; 42:105-118
- 344. Tkacova R, Dai DL, Vonk JM, Leung JM, Hiemstra PS, van den Berge M, Kunz L, Hollander Z, Tashkin D, Wise RA, Connett J, Ng R, McManus B, Paul Man SF, Postma DS and Sin DD. Airway hyperresponsiveness in chronic obstructive pulmonary disease: A marker of asthma-chronic obstructive pulmonary disease overlap syndrome? J Allergy Clin Immunol 2016; 138:1571-1579.e10
- 345. Bhatt SP, Terry NL, Nath H, Zach JA, Tschirren J, Bolding MS, Stinson DS, Wilson CG, Curran-Everett D, Lynch DA, Putcha N, Soler X, Wise RA, Washko GR, Hoffman EA, Foreman MG, Dransfield MT and Genetic Epidemiology of COPD (COPDGene) Investigators. Association Between Expiratory Central Airway Collapse and Respiratory Outcomes Among Smokers. JAMA 2016; 315:498-505
- 346. Bhatt SP, Soler X, Wang X, Murray S, Anzueto AR, Beaty TH, Boriek AM, Casaburi R, Criner GJ, Diaz AA, Dransfield MT, Curran-Everett D, Galban CJ, Hoffman EA, Hogg JC, Kazerooni EA, Kim V, Kinney GL, Lagstein A, Lynch DA, Make BJ, Martinez FJ, Ramsdell JW, Reddy R, Ross BD, Rossiter HB, Steiner RM, Strand MJ, van Beek EJ, Wan ES, Washko GR, Wells JM, Wendt CH, **Wise RA**, Silverman EK, Crapo JD, Bowler RP, Han MK

and COPDGene Investigators. Association between Functional Small Airway Disease and FEV1 Decline in Chronic Obstructive Pulmonary Disease. Am J Respir Crit Care Med 2016; 194:178-184

- 347. Putcha N and **Wise RA.** Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome: Nothing New Under the Sun. Immunol Allergy Clin North Am 2016; 36:515-528
- 348. Zaeh S, Miele CH, Putcha N, Gilman RH, Miranda JJ, Bernabe-Ortiz A, **Wise R** and Checkley W. Chronic respiratory disease and high altitude are associated with depressive symptoms in four diverse settings. Int J Tuberc Lung Dis 2016; 20:1263-1269
- 349. Woodruff PG, Barr RG, Bleecker E, Christenson SA, Couper D, Curtis JL, Gouskova NA, Hansel NN, Hoffman EA, Kanner RE, Kleerup E, Lazarus SC, Martinez FJ, Paine R,3rd, Rennard S, Tashkin DP, Han MK and SPIROMICS Research Group (incl Wise R). Clinical Significance of Symptoms in Smokers with Preserved Pulmonary Function. N Engl J Med 2016; 374:1811-1821
- 350. Tashkin DP, Bateman ED, Jones P, Zubek VB, Metzdorf N, Liu D, Leonard T, Clerisme-Beaty E and **Wise RA.** Consistent improvement in health-related quality of life with tiotropium in patients with chronic obstructive pulmonary disease: Novel and conventional responder analyses. Respir Med 2016; 120:91-100
- 351. Checkley W, Foreman MG, Bhatt SP, Dransfield MT, Han M, Hanania NA, Hansel NN, Regan EA, **Wise R** and COPDGene Study Investigators. Differences between absolute and predicted values of forced expiratory volumes to classify ventilatory impairment in chronic obstructive pulmonary disease. Respir Med 2016; 111:30-38
- 352. Dusser D, **Wise RA**, Dahl R, Anzueto A, Carter K, Fowler A and Calverley PM. Differences in outcomes between GOLD groups in patients with COPD in the TIOSPIR((R)) trial. Int J Chron Obstruct Pulmon Dis 2016; 11:133-145
- 353. Holbrook JT, Sugar EA, Brown RH, Drye LT, Irvin CG, Schwartz AR, Tepper RS, Wise RA, Yasin RZ, Busk MF and American Lung Association Airways Clinical Research Centers. Effect of Continuous Positive Airway Pressure on Airway Reactivity in Asthma. A Randomized, Sham-controlled Clinical Trial. Ann Am Thorac Soc 2016; 13:1940-1950
- 354. Donohue JF, **Wise RA**, Busse WW, Garfinkel S, Zubek VB, Ghafouri M, Manuel RC, Schlenker-Herceg R and Bleecker ER. Efficacy and safety of ipratropium bromide/albuterol compared with albuterol in patients with moderate-to-severe asthma: a randomized controlled trial. BMC Pulm Med 2016; 16:65-016-0223-3
- 355. Kaminsky DA, Wang LL, Bates JH, Thamrin C, Shade DM, Dixon AE, **Wise RA**, Peters S and Irvin CG. Fluctuation Analysis of Peak Expiratory Flow and its Association with Treatment Failure in Asthma. Am J Respir Crit Care Med 2016;
- 356. Lang JE, Hossain J, Holbrook JT, Teague WG, Gold BD, **Wise R** and Lima JJ. Gastro-oesophageal reflux and worse asthma control in obese children: a case of symptom misattribution? Thorax 2016; 71:238-246
- 357. McGeachie MJ, Yates KP, Zhou X, Guo F, Sternberg AL, Van Natta ML, Wise RA, Szefler SJ, Sharma S, Kho AT, Cho MH, Croteau-Chonka DC, Castaldi PJ, Jain G, Sanyal A, Zhan Y, Lajoie BR, Dekker J, Stamatoyannopoulos J, Covar RA, Zeiger RS, Adkinson NF, Williams PV, Kelly HW, Grasemann H, Vonk JM, Koppelman GH, Postma DS, Raby BA, Houston I, Lu Q, Fuhlbrigge AL, Tantisira KG, Silverman EK, Tonascia J, Strunk RC, Weiss ST and CAMP Research Group. Genetics and Genomics of Longitudinal Lung Function Patterns in Individuals with Asthma. Am J Respir Crit Care Med 2016; 194:1465-1474
- 358. Wise RA, Acevedo RA, Anzueto AR, Hanania NA, Martinez FJ, Ohar JA and Tashkin DP. Guiding Principles for the Use of Nebulized Long-Acting Beta2-Agonists in Patients with COPD: An Expert Panel Consensus. Chronic Obstr Pulm Dis 2016; 4:7-20

- 359. Bonilla Arcos D, Krishnan JA, Vandivier RW, Sevransky JE, Checkley W, Kiser TH, Sullivan JL, Walsh JW, Wise R and Wilson KC. High-Dose Versus Low-Dose Systemic Steroids in the Treatment of Acute Exacerbations of Chronic Obstructive Pulmonary Disease: Systematic Review. Chronic Obstr Pulm Dis 2016; 3:580-588
- 360. Popescu I, Drummond MB, Gama L, Lambert A, Hoji A, Coon T, Merlo CA, Wise RA, Keruly J, Clements JE, Kirk GD and McDyer JF. HIV Suppression Restores the Lung Mucosal CD4+ T-Cell Viral Immune Response and Resolves CD8+ T-Cell Alveolitis in Patients at Risk for HIV-Associated Chronic Obstructive Pulmonary Disease. J Infect Dis 2016; 214:1520-1530
- 361. Checkley W, Deza MP, Klawitter J, Romero KM, Klawitter J, Pollard SL, **Wise RA**, Christians U and Hansel NN. Identifying biomarkers for asthma diagnosis using targeted metabolomics approaches. Respir Med 2016; 121:59-66
- 362. Lambert AA, Drummond MB, Kisalu A, Moxley J, Keruly J, Moore RD, **Wise R** and Kirk GD. Implementation of a COPD Screening Questionnaire in an Outpatient HIV Clinic. COPD 2016; 1-6
- 363. Miele CH, Schwartz AR, Gilman RH, Pham L, **Wise RA**, Davila-Roman VG, Jun JC, Polotsky VY, Miranda JJ, Leon-Velarde F and Checkley W. Increased Cardiometabolic Risk and Worsening Hypoxemia at High Altitude. High Alt Med Biol 2016; 17:93-100
- 364. Zafari Z, Sin DD, Postma DS, Lofdahl CG, Vonk J, Bryan S, Lam S, Tammemagi CM, Khakban R, Man SF, Tashkin D, Wise RA, Connett JE, McManus B, Ng R, Hollander Z and Sadatsafavi M. Individualized prediction of lung-function decline in chronic obstructive pulmonary disease. CMAJ 2016; 188:1004-1011
- 365. Wise RA, Holbrook JT, Criner G, Sethi S, Rayapudi S, Sudini KR, Sugar EA, Burke A, Thimmulappa R, Singh A, Talalay P, Fahey JW, Berenson CS, Jacobs MR, Biswal S and Broccoli Sprout Extract Trial Research Group. Lack of Effect of Oral Sulforaphane Administration on Nrf2 Expression in COPD: A Randomized, Double-Blind, Placebo Controlled Trial. PLoS One 2016; 11:e0163716
- 366. Bime C, Gerald JK, Wei CY, Holbrook JT, Teague WG, **Wise R** and Gerald LB. Measurement characteristics of the childhood Asthma-Control Test and a shortened, child-only version. NPJ Prim Care Respir Med 2016; 26:16075
- 367. Tashkin DP, Roth MD, Clements PJ, Furst DE, Khanna D, Kleerup EC, Goldin J, Arriola E, Volkmann ER, Kafaja S, Silver R, Steen V, Strange C, Wise RA, Wigley F, Mayes M, Riley DJ, Hussain S, Assassi S, Hsu VM, Patel B, Phillips K, Martinez F, Golden J, Connolly MK, Varga J, Dematte J, Hinchcliff ME, Fischer A, Swigris J, Meehan R, Theodore A, Simms R, Volkov S, Schraufnagel DE, Scholand MB, Frech T, Molitor JA, Highland K, Read CA, Fritzler MJ, Kim GH, Tseng CH, Elashoff RM and Sclerodema Lung Study II Investigators. Mycophenolate mofetil versus oral cyclophosphamide in scleroderma-related interstitial lung disease (SLS II): a randomised controlled, double-blind, parallel group trial. Lancet Respir Med 2016; 4:708-719
- 368. McGeachie MJ, Yates KP, Zhou X, Guo F, Sternberg AL, Van Natta ML, Wise RA, Szefler SJ, Sharma S, Kho AT, Cho MH, Croteau-Chonka DC, Castaldi PJ, Jain G, Sanyal A, Zhan Y, Lajoie BR, Dekker J, Stamatoyannopoulos J, Covar RA, Zeiger RS, Adkinson NF, Williams PV, Kelly HW, Grasemann H, Vonk JM, Koppelman GH, Postma DS, Raby BA, Houston I, Lu Q, Fuhlbrigge AL, Tantisira KG, Silverman EK, Tonascia J, Weiss ST, Strunk RC and CAMP Research Group. Patterns of Growth and Decline in Lung Function in Persistent Childhood Asthma. N Engl J Med 2016; 374:1842-1852
- 369. Kim V, Zhao H, Boriek AM, Anzueto A, Soler X, Bhatt SP, Rennard SI, Wise RA, Comellas A, Ramsdell JW, Kinney GL, Han MK, Martinez CH, Yen A, Black-Shinn J, Porszasz J, Criner GJ, Hanania NA, Sharafkhaneh A, Crapo JD, Make BJ, Silverman EK, Curtis JL and COPDGene Investigators. Persistent and Newly Developed Chronic Bronchitis Are Associated with Worse Outcomes in Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2016;
- 370. Wise R Corresonding Author for Long-Term Oxygen Treatment Trial Research Group, Albert RK, Au DH, Blackford AL, Casaburi R, Cooper JA, Jr, Criner GJ, Diaz P, Fuhlbrigge AL, Gay SE, Kanner RE, MacIntyre N,

Martinez FJ, Panos RJ, Piantadosi S, Sciurba F, Shade D, Stibolt T, Stoller JK, **Wise RA**, Yusen RD, Tonascia J, Sternberg AL and Bailey W. A Randomized Trial of Long-Term Oxygen for COPD with Moderate Desaturation. N Engl J Med 2016; 375:1617-1627

- 371. Wise RA, Anzueto A, Dahl R, Dusser D and Calverley P. Tiotropium safety in 'real-world' populations: Response to Schmiedl, et al. in the British Journal of Clinical Pharmacology. Br J Clin Pharmacol 2016;
- 372. Putcha N, Barr RG, Han MK, Woodruff PG, Bleecker ER, Kanner RE, Martinez FJ, Smith BM, Tashkin DP, Bowler RP, Eisner MD, Rennard SI, Wise RA, Hansel NN and SPIROMICS Investigators. Understanding the impact of second-hand smoke exposure on clinical outcomes in participants with COPD in the SPIROMICS cohort. Thorax 2016;
- 373. Gaviola C, Miele CH, **Wise RA**, Gilman RH, Jaganath D, Miranda JJ, Bernabe-Ortiz A, Hansel NN, Checkley W and CRONICAS Cohort Study Group. Urbanisation but not biomass fuel smoke exposure is associated with asthma prevalence in four resource-limited settings. Thorax 2016; 71:154-160
- 374. Miele CH, Jaganath D, Miranda JJ, Bernabe-Ortiz A, Gilman RH, Johnson CM, Diette GB, **Wise RA**, Checkley W and CRONICAS Cohort Study Group. Urbanization and Daily Exposure to Biomass Fuel Smoke Both Contribute to Chronic Bronchitis Risk in a Population with Low Prevalence of Daily Tobacco Smoking. COPD 2016; 13:186-195
- 375. Yawn BB, Thomashaw B, Mannino DM, Han MK, Kalhan R, Rennard S, Cerrata S, Crapo JD and **Wise RA.** The 2017 Update to the COPD Foundation COPD Pocket Consultant Guide. Chronic Obstr Pulm Dis 2017; 4:177-185
- 376. Woodruff PG, van den Berge M, Boucher RC, Brightling C, Burchard EG, Christenson SA, Han MK, Holtzman MJ, Kraft M, Lynch DA, Martinez FD, Reddel HK, Sin DD, Washko GR, Wenzel SE, Punturieri A, Freemer MM and Wise RA. American Thoracic Society/National Heart, Lung, and Blood Institute Asthma-Chronic Obstructive Pulmonary Disease Overlap Workshop Report. Am J Respir Crit Care Med 2017; 196:375-381
- 377. Aboumatar H, Naqibuddin M, Chung S, Adebowale H, Bone L, Brown T, Cooper LA, Gurses AP, Knowlton A, Kurtz D, Piet L, Putcha N, Rand C, Roter D, Shattuck E, Sylvester C, Urteaga-Fuentes A, Wise RA, Wolff JL, Yang T, Hibbard J, Howell E, Myers M, Shea K, Sullivan J, Syron L, Wang NY, Pronovost P and BREATHE Study Patient Family Partners Group. Better Respiratory Education and Treatment Help Empower (BREATHE) study: Methodology and baseline characteristics of a randomized controlled trial testing a transitional care program to improve patient-centered care delivery among chronic obstructive pulmonary disease patients. Contemp Clin Trials 2017; 62:159-167
- 378. Calverley PM, Tetzlaff K, Dusser D, Wise RA, Mueller A, Metzdorf N and Anzueto A. Determinants of exacerbation risk in patients with COPD in the TIOSPIR study. Int J Chron Obstruct Pulmon Dis 2017; 12:3391-3405
- 379. Wu H, **Wise R** and Medinger AE. Do Patients Hospitalized With COPD Have Airflow Obstruction? Chest 2017; 151:1263-1271
- 380. Calverley PMA, Mueller A, Fowler A, Metzdorf N and **Wise RA.** The Effect of Defining COPD by the Lower Limit of Normal of FEV1/FVC Ratio in TIOSPIR(R) Participants. Ann Am Thorac Soc 2017;
- 381. Dixon AE, Castro M, Gerald LB, Holbrook JT, Henderson RJ, Casale TB, Irvin CG, Black K, Wise RA, Sugar EA and American Lung Association Airways Clinical Research Centers' Writing Committee. Effect of intranasal corticosteroids on allergic airway disease in asthma. J Allergy Clin Immunol Pract 2017; 5:1125-1128.e3
- 382. Kanagalingam S, Shehab SS, Kaminsky DA, **Wise RA**, Lang JE and Dixon AE. Effect of obesity on sinonasal disease in asthma. J Asthma 2017; 1-7

- 383. Sussan TE, Shahzad FG, Tabassum E, Cohen JE, Wise RA, Blaha MJ, Holbrook JT and Biswal S. Electronic cigarette use behaviors and motivations among smokers and non-smokers. BMC Public Health 2017; 17:686-017-4671-3
- 384. Bowler RP, Hansel NN, Jacobson S, Graham Barr R, Make BJ, Han MK, O'Neal WK, Oelsner EC, Casaburi R, Barjaktarevic I, Cooper C, Foreman M, Wise RA, DeMeo DL, Silverman EK, Bailey W, Harrington KF, Woodruff PG, Drummond MB and for COPDGene and SPIROMICS Investigators. Electronic Cigarette Use in US Adults at Risk for or with COPD: Analysis from Two Observational Cohorts. J Gen Intern Med 2017;
- 385. Parulekar AD, Martinez C, Tsai CL, Locantore N, Atik M, Yohannes AM, Kao CC, Al-Azzawi H, Mohsin A, Wise RA, Foreman MG, Demeo DL, Regan EA, Make BJ, Boriek AM, Wiener LE and Hanania NA. Examining the Effects of Age on Health Outcomes of Chronic Obstructive Pulmonary Disease: Results From the Genetic Epidemiology of Chronic Obstructive Pulmonary Disease Study and Evaluation of Chronic Obstructive Pulmonary Disease Longitudinally to Identify Predictive Surrogate Endpoints Cohorts. J Am Med Dir Assoc 2017; 18:1063-1068
- 386. Calverley PMA, Anderson JA, Brook RD, Crim C, Gallot N, Kilbride S, Martinez F, Yates J, Newby DE, Vestbo J, Wise RA, Celli BR and SUMMIT Investigators. Fluticasone Furoate, Vilanterol and Lung Function Decline in Patients with Moderate COPD and Heightened Cardiovascular Risk. Am J Respir Crit Care Med 2017;
- 387. Abston E, Comellas A, Reed RM, Kim V, **Wise RA**, Brower R, Fortis S, Beichel R, Bhatt S, Zabner J, Newell J, Hoffman EA and Eberlein M. Higher BMI is associated with higher expiratory airflow normalised for lung volume (FEF25-75/FVC) in COPD. BMJ Open Respir Res 2017; 4:e000231-2017-000231. eCollection 2017
- 388. Drummond MB, Lambert AA, Hussien AF, Lin CT, Merlo CA, **Wise RA**, Kirk GD and Brown RH. HIV Infection Is Independently Associated with Increased CT Scan Lung Density. Acad Radiol 2017; 24:137-145
- 389. Boueiz A, Chang Y, Cho MH, Washko GR, San Jose Estepar R, Bowler RP, Crapo JD, DeMeo DL, Dy JG, Silverman EK, Castaldi PJ and COPDGene Investigators. Lobar Emphysema Distribution Is Associated With 5-Year Radiological Disease Progression. Chest 2017;
- 390. Wise RA. Long-Term Oxygen for COPD. N Engl J Med 2017; 376:287
- 391. Wilson SR, Mulligan MJ, Ayala E, Chausow A, Huang Q, Knowles SB, Gummidipundi S, Castro M and Wise RA. A new measure to assess asthma's effect on quality of life from the patient's perspective. J Allergy Clin Immunol 2017;
- 392. Lambert AA, Putcha N, Drummond MB, Boriek AM, Hanania NA, Kim V, Kinney GL, McDonald MN, Brigham EP, Wise RA, McCormack MC, Hansel NN and COPDGene Investigators. Obesity Is Associated With Increased Morbidity in Moderate to Severe COPD. Chest 2017; 151:68-77
- 393. Siddharthan T, Grigsby M, Miele CH, Bernabe-Ortiz A, Miranda JJ, Gilman RH, Wise RA, Porter JC, Hurst JR and Checkley W. Prevalence and risk factors of restrictive spirometry in a cohort of Peruvian adults. Int J Tuberc Lung Dis 2017; 21:1062-1068
- 394. Ferguson GT, Beck B, Clerisme-Beaty E, Liu D, Thomashow BM, **Wise RA**, ZuWallack R and Make BJ. Recruiting Patients After Hospital Discharge for Acute Exacerbation of COPD: Challenges and Lessons Learned. Chronic Obstr Pulm Dis 2017; 4:265-278
- 395. Rogers L, Sugar EA, Blake K, Castro M, Dimango E, Hanania NA, Happel KI, Peters SP, Reibman J, Saams J, Teague WG, Wise RA, Holbrook JT and American Lung Association Airways Clinical Research Centers. Step-Down Therapy for Asthma Well Controlled on Inhaled Corticosteroid and Long-Acting Beta-Agonist: A Randomized Clinical Trial. J Allergy Clin Immunol Pract 2017;

- 396. Kiser TH, Sevransky JE, Krishnan JA, Tonascia J, **Wise RA**, Checkley W, Walsh J, Sullivan JB, Wilson KC, Barker A, Moss M and Vandivier RW. A Survey of Corticosteroid Dosing for Exacerbations of Chronic Obstructive Pulmonary Disease Requiring Assisted Ventilation. Chronic Obstr Pulm Dis 2017; 4:186-193
- 397. Siddharthan T, Grigsby MR, Goodman D, Chowdhury M, Rubinstein A, Irazola V, Gutierrez L, Miranda JJ, Bernabe-Ortiz A, Alam D, Kirenga B, Jones R, van Gemert F, Wise R and Checkley W. Association between Household Air Pollution Exposure and Chronic Obstructive Pulmonary Disease Outcomes in 13 Low- and Middle-Income Country Settings. Am J Respir Crit Care Med 2018; 197:611-620
- 398. Fawzy A, Putcha N, Paulin LM, Aaron CP, Labaki WW, Han MK, **Wise RA**, Kanner RE, Bowler RP, Barr RG, Hansel NN and SPIROMICS and COPDGene Investigators. Association of thrombocytosis with COPD morbidity: the SPIROMICS and COPDGene cohorts. Respir Res 2018; 19:20-018-0717-z
- 399. Morgan BW, Siddharthan T, Grigsby MR, Pollard SL, Kalyesubula R, **Wise RA**, Kirenga B and Checkley W. Asthma and Allergic Disorders in Uganda: A Population-Based Study Across Urban and Rural Settings. J Allergy Clin Immunol Pract 2018;
- 400. Yun JH, Lamb A, Chase R, Singh D, Parker MM, Saferali A, Vestbo J, Tal-Singer R, Castaldi PJ, Silverman EK, Hersh CP and COPDGene and ECLIPSE Investigators. Blood eosinophil count thresholds and exacerbations in patients with chronic obstructive pulmonary disease. J Allergy Clin Immunol 2018; 141:2037-2047.e10
- 401. Krishnan S, Dozor AJ, Bacharier L, Lang JE, Irvin CG, Kaminsky D, Farber HJ, Gerald L, Brown M, Holbrook JT, **Wise RA**, Ryu J, Bose S, Yasin R, Saams J, Henderson RJ, Teague WG and American Lung Association Airway Clinical Research Centers (ALA-ACRC) Network. Clinical characterization of children with resistant airflow obstruction, a multicenter study. J Asthma 2018; 1-7
- 402. Sussan TE, Shahzad FG, Tabassum E, Cohen JE, **Wise RA**, Blaha MJ, Holbrook JT and Biswal S. Correction to: electronic cigarette use behaviors and motivations among smokers and non-smokers. BMC Public Health 2018; 18:175-018-5048-y
- 403. Kesten S, Israel E, Li G, Mitchell J, **Wise R** and Stern T. Development of a novel digital breath-activated inhaler: Initial particle size characterization and clinical testing. Pulm Pharmacol Ther 2018; 53:27-32
- 404. Patel NR, Cunoosamy DM, Fageras M, Taib Z, Asimus S, Hegelund-Myrback T, Lundin S, Pardali K, Kurian N, Ersdal E, Kristensson C, Korsback K, Palmer R, Brown MN, Greenaway S, Siew L, Clarke GW, Rennard SI, Make BJ, **Wise R** and Jansson P. The development of AZD7624 for prevention of exacerbations in COPD: a randomized controlled trial. Int J Chron Obstruct Pulmon Dis 2018; 13:1009-1019
- 405. Tang M, Henderson RJ, Holbrook JT, Que LG, Mathews AM, **Wise RA**, Dixon AE, Peters SP, Rogers L, Smith LJ, Teague WG and Lang JE. Does Obesity Increase Respiratory Tract Infections in Patients with Asthma? J Allergy Clin Immunol Pract 2018;
- 406. Siddharthan T, Pollard SL, Quaderi SA, Mirelman AJ, Cardenas MK, Kirenga B, Rykiel NA, Miranda JJ, Shrestha L, Chandyo RK, Cattamanchi A, Michie S, Barber J, Checkley W, Hurst JR and GECo Study Investigators. Effectiveness-implementation of COPD case finding and self-management action plans in low- and middle-income countries: global excellence in COPD outcomes (GECo) study protocol. Trials 2018; 19:571-018-2909-8
- 407. Morgan BW, Grigsby MR, Siddharthan T, Chowdhury M, Rubinstein A, Gutierrez L, Irazola V, Miranda JJ, Bernabe-Ortiz A, Alam D, **Wise R** and Checkley W. Epidemiology and risk factors of asthma-chronic obstructive pulmonary disease overlap in low- and middle-income countries. J Allergy Clin Immunol 2018;
- 408. Kennedy CC, Novotny PJ, LeBrasseur NK, **Wise RA**, Sciurba FC, Benzo RP and NETT Research Group. Frailty and Clinical Outcomes in Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2018;

- 409. Wan ES, Fortis S, Regan EA, Hokanson J, Han MK, Casaburi R, Make BJ, Crapo JD, DeMeo DL, Silverman EK and COPDGene Investigators. Longitudinal Phenotypes and Mortality in Preserved Ratio Impaired Spirometry in the COPDGene Study. Am J Respir Crit Care Med 2018; 198:1397-1405
- 410. Wise RA, Chapman KR, Scirica BM, Schoenfeld DA, Bhatt DL, Daoud SZ, Seoane B, Reisner C and Garcia Gil E. Long-Term Evaluation of the Effects of Aclidinium Bromide on Major Adverse Cardiovascular Events and COPD Exacerbations in Patients with Moderate to Very Severe COPD: Rationale and Design of the ASCENT COPD Study. Chronic Obstr Pulm Dis 2018; 5:5-15
- 411. Yusen RD, Criner GJ, Sternberg AL, Au DH, Fuhlbrigge AL, Albert RK, Casaburi R, Stoller JK, Harrington KF, Cooper JAD, Jr, Diaz P, Gay S, Kanner R, MacIntyre N, Martinez FJ, Piantadosi S, Sciurba F, Shade D, Stibolt T, Tonascia J, Wise RA, Bailey WC, LOTT Research Group * and LOTT Research Group. The Long-Term Oxygen Treatment Trial for Chronic Obstructive Pulmonary Disease: Rationale, Design, and Lessons Learned. Ann Am Thorac Soc 2018; 15:89-101
- 412. Putcha N, Paul GG, Azar A, Wise RA, O'Neal WK, Dransfield MT, Woodruff PG, Curtis JL, Comellas AP, Drummond MB, Lambert AA, Paulin LM, Fawzy A, Kanner RE, Paine R,3rd, Han MK, Martinez FJ, Bowler RP, Barr RG, Hansel NN and SPIROMICS investigators. Lower serum IgA is associated with COPD exacerbation risk in SPIROMICS. PLoS One 2018; 13:e0194924
- 413. Putcha N and Wise RA. Medication Regimens for Managing COPD Exacerbations. Respir Care 2018; 63:773-782
- 414. Lipson DA, Barnhart F, Brealey N, Brooks J, Criner GJ, Day NC, Dransfield MT, Halpin DMG, Han MK, Jones CE, Kilbride S, Lange P, Lomas DA, Martinez FJ, Singh D, Tabberer M, Wise RA, Pascoe SJ and IMPACT Investigators. Once-Daily Single-Inhaler Triple versus Dual Therapy in Patients with COPD. N Engl J Med 2018; 378:1671-1680
- 415. Trompeter G, Grigsby MR, Miele CH, **Wise RA**, Gilman RH, Miranda JJ, Bernabe-Ortiz A, Checkley W and CRONICAS Cohort Study. Patterns of Body Composition Relating to Chronic Respiratory Diseases Among Adults in Four Resource-Poor Settings in Peru. Lung 2018; 196:277-284
- 416. Wilson SR, **Wise RA**, Castro M, Mulligan MJ, Ayala E, Chausow A, Huang Q and Gummidipundi S. Performance of the Asthma Impact on Quality of Life Scale (A-IQOLS) in diverse asthma research populations and demographic subgroups. J Allergy Clin Immunol 2018;
- 417. Wise RA, Calverley PM, Carter K, Clerisme-Beaty E, Metzdorf N and Anzueto A. Seasonal variations in exacerbations and deaths in patients with COPD during the TIOSPIR((R)) trial. Int J Chron Obstruct Pulmon Dis 2018; 13:605-616
- 418. Bhatt SP, Kim YI, Harrington KF, Hokanson JE, Lutz SM, Cho MH, DeMeo DL, Wells JM, Make BJ, Rennard SI, Washko GR, Foreman MG, Tashkin DP, Wise RA, Dransfield MT, Bailey WC and COPDGene Investigators. Smoking duration alone provides stronger risk estimates of chronic obstructive pulmonary disease than pack-years. Thorax 2018;
- 419. Baker AM, Holbrook JT, Yohannes AM, Eakin MN, Sugar EA, Henderson RJ, Casper AS, Kaminsky DA, Rea AL, Mathews AM, Que LG, Ramsdell JW, Gerald LB, **Wise RA**, Hanania NA and for American Lung Association Airways Clinical Research Centers. Test Performance Characteristics of the AIR, GAD-7 and HADS-Anxiety Screening Questionnaires for Anxiety in Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2018;
- 420. Calverley PM, Anzueto AR, Dusser D, Mueller A, Metzdorf N and **Wise RA.** Treatment of exacerbations as a predictor of subsequent outcomes in patients with COPD. Int J Chron Obstruct Pulmon Dis 2018; 13:1297-1308

- 421. Wu TD, Perzanowski M, Peng RD, **Wise RA**, Balcer-Whaley S, Newman M, Cunningham A, Phipatanakul W, Matsui EC and McCormack MC. Validation of the maximum symptom day among children with asthma. J Allergy Clin Immunol 2018;
- 422. Morgan BW, Grigsby MR, Siddharthan T, Kalyesubula R, **Wise RA**, Hurst JR, Kirenga B and Checkley W. Validation of the Saint George's Respiratory Questionnaire in Uganda. BMJ Open Respir Res 2018; 5:e000276-2018-000276. eCollection 2018
- 423. Soler X, Holbrook JT, Gerald LB, Berry CE, Saams J, Henderson RJ, Sugar E, **Wise R** and Ramsdell JW. Validity of the Asthma Control Test Questionnaire Among Smoking Asthmatics. J Allergy Clin Immunol Pract 2018; 6:151-158
- 424. Fawzy A, Anderson JA, Cowans NJ, Crim C, **Wise RA**, Yates JC and Hansel NN. Association of platelet count with all-cause mortality and risk of cardiovascular and respiratory morbidity in stable COPD. Respir Res 2019; 20:86-019-1059-1
- 425. Pascoe S, Barnes N, Brusselle G, Compton C, Criner GJ, Dransfield MT, Halpin DMG, Han MK, Hartley B, Lange P, Lettis S, Lipson DA, Lomas DA, Martinez FJ, Papi A, Roche N, van der Valk RJP, **Wise R** and Singh D. Blood eosinophils and treatment response with triple and dual combination therapy in chronic obstructive pulmonary disease: analysis of the IMPACT trial. Lancet Respir Med 2019; 7:745-756
- 426. Wise R and Krishnan JA. Celebration of the 50-Year Anniversary of the National Heart, Lung, and Blood Institute Division of Lung Diseases: A Half-Century of Landmark Clinical Trials. Chronic Obstr Pulm Dis 2019; 6:10.15326/jcopdf.6.4.2019.0157
- 427. Sidhaye VK, Holbrook JT, Burke A, Sudini KR, Sethi S, Criner GJ, Fahey JW, Berenson CS, Jacobs MR, Thimmulappa R, **Wise R** and Biswal S. Compartmentalization of anti-oxidant and anti-inflammatory gene expression in current and former smokers with COPD. Respir Res 2019; 20:190-019-1164-1
- 428. Balasubramanian A, MacIntyre NR, Henderson RJ, Jensen RL, Kinney G, Stringer WW, Hersh CP, Bowler RP, Casaburi R, Han MK, Porszasz J, Barr RG, Make BJ, **Wise R** and McCormack MC. Diffusing Capacity of Carbon Monoxide in Assessment of COPD. Chest 2019;
- 429. Ahmed A, Sadreameli SC, Curtin-Brosnan J, Grant T, Phipatanakul W, Perzanowski M, Balcer-Whaley S, Peng R, Newman M, Cunningham A, Divjan A, Bollinger ME, **Wise RA**, Miller R, Chew G and Matsui EC. Do Baseline Asthma and Allergic Sensitization Characteristics Predict Responsiveness to Mouse Allergen Reduction? J Allergy Clin Immunol Pract 2019;
- 430. Aboumatar H, Naqibuddin M, Chung S, Chaudhry H, Kim SW, Saunders J, Bone L, Gurses AP, Knowlton A, Pronovost P, Putcha N, Rand C, Roter D, Sylvester C, Thompson C, Wolff JL, Hibbard J and Wise RA. Effect of a Hospital-Initiated Program Combining Transitional Care and Long-term Self-management Support on Outcomes of Patients Hospitalized With Chronic Obstructive Pulmonary Disease: A Randomized Clinical Trial. JAMA 2019; 322:1371-1380
- 431. Wise RA, Chapman KR, Scirica BM, Bhatt DL, Daoud SZ, Zetterstrand S, Reisner C and Gil EG. Effect of Aclidinium Bromide on Major Cardiovascular Events and Exacerbations in High-Risk Patients With Chronic Obstructive Pulmonary Disease: The ASCENT-COPD Randomized Clinical Trial. JAMA 2019; 321:1693-1701
- 432. Simkovich SM, Goodman D, Roa C, Crocker ME, Gianella GE, Kirenga BJ, **Wise R** and Checkley W. The health and social implications of household air pollution and respiratory diseases. NPJ Prim Care Respir Med 2019; 29:12-019-0126-x
- 433. Bose S, Henderson RJ, Rogers L, Casale T, Skloot G, Soler X, **Wise R** and Que LG. Identifying an at-risk population for poor asthma outcomes: Data from the American Lung Association Asthma Clinical Trials Registry. J Allergy Clin Immunol Pract 2019;

- 434. Thomashow B, Crapo JD, Drummond MB, Han MK, Kalhan R, Malanga E, Malanga V, Mannino DM, Rennard S, Sciurba FC, Willard KS, Wise R and Yawn B. Introducing the New COPD Pocket Consultant Guide App: Can A Digital Approach Improve Care? A Statement of the COPD Foundation. Chronic Obstr Pulm Dis 2019; 6:10.15326/jcopdf.6.3.2018.0167
- 435. Wu TD, Ejike CO, Wise RA, McCormack MC and Brigham EP. Investigation of the Obesity Paradox in Chronic Obstructive Pulmonary Disease, According to Smoking Status, in the United States. Am J Epidemiol 2019; 188:1977-1983
- 436. Hinze AM, Lin CT, Hussien AF, Perin J, Venado A, Golden JA, Boin F, Brown RH, **Wise R** and Wigley FM. Longitudinal assessment of interstitial lung disease in single lung transplant recipients with scleroderma. Rheumatology (Oxford) 2019;
- 437. Gatto NM, Koralek DO, Bracken MB, Duggan WT, Lem J, Klioze S, Koch GG, **Wise RA**, Cohen RB and Jackson NC. Lung Cancer-Related Mortality With Inhaled Insulin or a Comparator: Follow-Up Study of patients previously enrolled in Exubera Controlled Clinical Trials (FUSE) Final Results. Diabetes Care 2019; 42:1708-1715
- 438. Hartley B, Criner GJ, Dransfield MT, Halpin DMG, Han MK, Jones CE, Kilbride S, Lange P, Lipson DA, Lomas DA, Martin N, Martinez FJ, Singh D, **Wise R** and Lettis S. Misinterpretation of time-to-first event curves can lead to inappropriate treatment. Eur Respir J 2019; 54:10.1183/13993003.00634-2019. Print 2019 Sep
- 439. Chisholm JF, Shenoy SK, Shade JK, Kim V, Putcha N, Carson KA, **Wise RA**, Hansel NN, Hanes JS, Suk JS and Neptune E. Nanoparticle diffusion in spontaneously expectorated sputum as a biophysical tool to probe disease severity in COPD. Eur Respir J 2019;
- 440. Aboumatar H and **Wise RA.** Notice of Retraction. Aboumatar et al. Effect of a Program Combining Transitional Care and Long-term Self-management Support on Outcomes of Hospitalized Patients With Chronic Obstructive Pulmonary Disease: A Randomized Clinical Trial. JAMA. 2018;320(22):2335-2343. JAMA 2019; 322:1417-1418
- 441. Koch AL, Brown RH, Woo H, Brooker AC, Paulin LM, Schneider H, Schwartz AR, Diette GB, **Wise RA**, Hansel NN and Putcha N. Obstructive Sleep Apnea and Airway Dimensions in COPD. Ann Am Thorac Soc 2019;
- 442. Kaminsky DA, Chapman DG, Holbrook JT, Henderson RJ, Sugar EA, Mastronarde J, Teague WG, Busk M, Sumino K, Dixon AE, **Wise R** and Irvin CG. Older age and obesity are associated with increased airway closure in response to methacholine in patients with asthma. Respirology 2019;
- 443. Siddharthan T, Grigsby M, Morgan B, Kalyesubula R, **Wise RA**, Kirenga B and Checkley W. Prevalence of chronic respiratory disease in urban and rural Uganda. Bull World Health Organ 2019; 97:318-327
- 444. Gatto NM, Bracken MB, Kolitsopoulos F, Duggan WT, Koch GG, **Wise R** and Jackson NC. Pulmonary and cardiovascular safety of inhaled insulin in routine practice: The Exubera Large Simple Trial (VOLUME). Contemp Clin Trials Commun 2019; 18:100427
- 445. Aboumatar H and **Wise RA.** Self-medication as Part of Self-management Plans for Patients With COPD-Reply. JAMA 2019; 321:1937
- 446. Wu TD, Perzanowski M, Peng RD, **Wise RA**, Balcer-Whaley S, Newman M, Cunningham A, Phipatanakul W, Matsui EC and McCormack MC. Validation of the maximum symptom day among children with asthma. J Allergy Clin Immunol 2019; 143:803-805.e10
- 447. Wise RA, Anderson JA, Amarenco P, Cowans NJ, Crim C, Denvir MA, Gomez CR, Jones MP, Morris A, Niewoehner D and Yates JC. Adjudication of cardiovascular events in patients with chronic obstructive pulmonary disease: SUMMIT trial. Clin Trials 2020; 17:430-436

- 448. Keller T, Spece LJ, Donovan LM, Udris E, Coggeshall SS, Griffith M, Bryant AD, Casaburi R, Cooper JA, Jr, Criner GJ, Diaz PT, Fuhlbrigge AL, Gay SE, Kanner RE, Martinez FJ, Panos RJ, Shade D, Sternberg A, Stibolt T, Stoller JK, Tonascia J, Wise RA, Yusen RD, Au DH and Feemster LC. Association of Guideline-Recommended COPD Inhaler Regimens With Mortality, Respiratory Exacerbations, and Quality of Life: A Secondary Analysis of the Long-Term Oxygen Treatment Trial. Chest 2020; 158:529-538
- 449. Raju S, McCormack MC, Drummond MB, Ramamurthi HC, Merlo CA, **Wise RA**, Mehta SH, Brown RH and Kirk GD. Association of Lung Function With HIV-Related Quality of Life and Health Care Utilization in a High-Risk Cohort. J Acquir Immune Defic Syndr 2020; 85:219-226
- 450. Burkes RM, Ceppe AS, Doerschuk CM, Couper D, Hoffman EA, Comellas AP, Barr RG, Krishnan JA, Cooper C, Labaki WW, Ortega VE, Wells JM, Criner GJ, Woodruff PG, Bowler RP, Pirozzi CS, Hansel NN, **Wise RA**, Brown TT, Drummond MB and SPIROMICS Investigators. Associations Among 25-Hydroxyvitamin D Levels, Lung Function, and Exacerbation Outcomes in COPD: An Analysis of the SPIROMICS Cohort. Chest 2020; 157:856-865
- 451. Bose S, Bime C, Henderson RJ, Blake KV, Castro M, DiMango E, Hanania NA, Holbrook JT, Irvin CG, Kraft M, Peters SP, Reibman J, Sugar EA, Sumino K, **Wise RA**, Rogers L and American Lung Association Airways Clinical Research Centers. Biomarkers of Type 2 Airway Inflammation as Predictors of Loss of Asthma Control During Step-Down Therapy for Well-Controlled Disease: The Long-Acting Beta-Agonist Step-Down Study (LASST). J Allergy Clin Immunol Pract 2020; 8:3474-3481
- 452. Kayongo A, Wosu AC, Naz T, Nassali F, Kalyesubula R, Kirenga B, **Wise RA**, Siddharthan T and Checkley W. Chronic Obstructive Pulmonary Disease Prevalence and Associated Factors in a Setting of Well-Controlled HIV, A Cross-Sectional Study. COPD 2020; 17:297-305
- 453. Putcha N, Fawzy A, Matsui EC, Liu M, Bowler RP, Woodruff P, O'Neal WK, Comellas AP, Han MK, Dransfield M, Wells JM, Lugogo N, Gao L, Talbot CC, Jr, Hoffman E, Cooper CB, Paulin LM, Kanner RE, Criner G, Ortega VE, Barr RG, Krishnan JA, Martinez FJ, Drummond MB, **Wise RA**, Diette GB, Hersh CP and Hansel NN. Clinical phenotypes of atopy and asthma in COPD: a meta-analysis of SPIROMICS and COPDGene. Chest 2020;
- 454. Tal-Singer R, Yawn BP, **Wise RA**, Thomashow BM and Boyce DM. The COPD Foundation Coronavirus Disease 2019 International Medical Experts Survey: Results. Chronic Obstr Pulm Dis 2020; 7:139-146
- 455. Murphy KR, Chipps B, Beuther DA, **Wise RA**, McCann W, Gilbert I, Eudicone JM, Gandhi HN, Harding G, Coyne KS, Zeiger RS and US PRECISION Advisory Board. Development of the Asthma Impairment and Risk Questionnaire (AIRQ): A Composite Control Measure. J Allergy Clin Immunol Pract 2020; 8:2263-2274.e5
- 456. Ahmed A, Sadreameli SC, Curtin-Brosnan J, Grant T, Phipatanakul W, Perzanowski M, Balcer-Whaley S, Peng R, Newman M, Cunningham A, Divjan A, Bollinger ME, **Wise RA**, Miller R, Chew G and Matsui EC. Do Baseline Asthma and Allergic Sensitization Characteristics Predict Responsiveness to Mouse Allergen Reduction? J Allergy Clin Immunol Pract 2020; 8:596-602.e3
- 457. Hanania NA, Mannino DM, Criner GJ, Dransfield MT, Han MK, Jones CE, Kilbride S, Lomas DA, Martin N, Martinez FJ, Singh D, **Wise RA**, Halpin DMG, Lima R and Lipson DA. Effect of Age on the Efficacy and Safety of Once-Daily Single-Inhaler Triple Therapy Fluticasone Furoate/Umeclidinium/Vilanterol in Patients With Chronic Obstructive Pulmonary Disease: A Post Hoc Analysis of the IMPACT Trial. Chest 2020;
- 458. Halpin DMG, Dransfield MT, Han MK, Jones CE, Kilbride S, Lange P, Lipson DA, Lomas DA, Martinez FJ, Pascoe S, Singh D, **Wise R** and Criner GJ. The effect of exacerbation history on outcomes in the IMPACT trial. Eur Respir J 2020; 55:10.1183/13993003.01921-2019. Print 2020 May
- 459. Han MK, Criner GJ, Dransfield MT, Halpin DMG, Jones CE, Kilbride S, Lange P, Lettis S, Lipson DA, Lomas DA, Martin N, **Wise RA**, Singh D and Martinez FJ. The Effect of Inhaled Corticosteroid Withdrawal and Baseline

Inhaled Treatment on Exacerbations in the IMPACT Study. A Randomized, Double-Blind, Multicenter Clinical Trial. Am J Respir Crit Care Med 2020; 202:1237-1243

- 460. Bourdin A, Criner G, Devouassoux G, Dransfield M, Halpin DMG, Han MK, Jones CE, Kalhan R, Lange P, Lettis S, Lipson DA, Lomas DA, Echave-Sustaeta Maria-Tome JM, Martin N, Martinez FJ, Quasny H, Sail L, Siler TM, Singh D, Thomashow B, Watz H, Wise R and Hanania NA. InforMing the PAthway of COPD Treatment Single-Inhaler Triple Therapy (Fluticasone Furoate/ Umeclidinium/ Vilanterol) Versus Fluticasone Furoate/Vilanterol and Umeclidinium /Vilanterol in Patients With COPD: Analysis of the Western Europe and North America Regions. Chronic Obstr Pulm Dis 2020;
- 461. Hinze AM, Lin CT, Hussien AF, Perin J, Venado A, Golden JA, Boin F, Brown RH, **Wise R** and Wigley FM. Longitudinal assessment of interstitial lung disease in single lung transplant recipients with scleroderma. Rheumatology (Oxford) 2020; 59:790-798
- 462. Aboumatar H, Naqibuddin M, Neiman J, Saunders J, Kim S, Chaudhry H, Garcia-Morales E, Robinson N, McBurney M, Jager L, Ajayi T, Bone L, Chung S, Farrell B, Joo Jin H, Linnell J, Pirfo M, Rand C, Riley P, Salvaterra C, Shea K, Singh J and Wise RA. Methodology and baseline characteristics of a randomized controlled trial testing a health care professional and peer-support program for patients with chronic obstructive pulmonary disease: The BREATHE2 study. Contemp Clin Trials 2020; 94:106023
- 463. Siddharthan T, Wosu AC, Pollard SL, Hossen S, Alupo P, Shade T, Kalyesubula R, Quaderi S, Wise RA, Hurst JR, Kirenga B, Checkley W and LiNK Cohort Study Investigators. A Novel Case-Finding Instrument for Chronic Obstructive Pulmonary Disease in Low- and Middle-Income Country Settings. Int J Chron Obstruct Pulmon Dis 2020; 15:2769-2777
- 464. Koch AL, Brown RH, Woo H, Brooker AC, Paulin LM, Schneider H, Schwartz AR, Diette GB, Wise RA, Hansel NN and Putcha N. Obstructive Sleep Apnea and Airway Dimensions in Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2020; 17:116-118
- 465. Burkes RM, Ceppe AS, Couper DJ, Comellas AP, Wells JM, Peters SP, Criner GJ, Kanner RE, Paine R,3rd, Christenson SA, Cooper CB, Barjaktarevic IZ, Krishnan JA, Labaki WW, Han MK, Curtis JL, Hansel NN, Wise RA, Drummond MB and SPIROMICS collaborators. Plasma Cathelicidin is Independently Associated with Reduced Lung Function in COPD: Analysis of the Subpopulations and Intermediate Outcome Measures in COPD Study Cohort. Chronic Obstr Pulm Dis 2020; 7:370-381
- 466. Moore A, Preece A, Sharma R, Heaney LG, Costello RW, Wise RA, Ludwig-Sengpiel A, Mosnaim G, Rees J, Tomlinson R, Tal-Singer R, Stempel DA and Barnes N. A randomised controlled trial of the effect of a connected inhaler system on medication adherence in uncontrolled asthmatic patients. Eur Respir J 2021; 57:10.1183/13993003.03103-2020. Print 2021 Jun
- 467. Lipson DA, Crim C, Criner GJ, Day NC, Dransfield MT, Halpin DMG, Han MK, Jones CE, Kilbride S, Lange P, Lomas DA, Lettis S, Manchester P, Martin N, Midwinter D, Morris A, Pascoe SJ, Singh D, **Wise RA**, Martinez FJ and IMPACT investigators. Reduction in All-Cause Mortality with Fluticasone Furoate/Umeclidinium/Vilanterol in COPD Patients. Am J Respir Crit Care Med 2020;
- 468. Grant T, Phipatanakul W, Perzanowski M, Balcer-Whaley S, Peng RD, Curtin-Brosnan J, Newman M, Cunningham A, Divjan A, Bollinger ME, **Wise R** and Matsui EC. Reduction in mouse allergen exposure is associated with greater lung function growth. J Allergy Clin Immunol 2020; 145:646-653.e1
- 469. Dransfield MT, Crim C, Criner GJ, Day NC, Halpin DMG, Han MK, Jones CE, Kilbride S, LaFon D, Lipson DA, Lomas DA, Martin N, Martinez FJ, Singh D, **Wise R** and Lange P. Risk of Exacerbation and Pneumonia with Single Inhaler Triple Versus Dual Therapy in IMPACT. Ann Am Thorac Soc 2020;

- 470. Tabberer M, Jones CE, Kilbride S, Halpin DMG, Lomas DA, Pascoe S, Singh D, **Wise RA**, Criner GJ, Lange P, Dransfield MT, Han MK, Martinez FJ, Kaisermann MC and Lipson DA. Single-Inhaler Triple Therapy and Health-Related Quality of Life in COPD: The IMPACT Study. Adv Ther 2020; 37:3775-3790
- 471. Day NC, Kumar S, Criner G, Dransfield M, Halpin DMG, Han MK, Jones CE, Kaisermann MC, Kilbride S, Lange P, Lomas DA, Martin N, Martinez FJ, Singh D, **Wise R** and Lipson DA. Single-inhaler triple therapy fluticasone furoate/umeclidinium/vilanterol versus fluticasone furoate/vilanterol and umeclidinium/vilanterol in patients with COPD: results on cardiovascular safety from the IMPACT trial. Respir Res 2020; 21:139-020-01398-w
- 472. Timofte I, Wijesinha M, Vesselinov R, Kim J, Reed R, Sanchez PG, Ladikos N, Pham S, Kon Z, Rajagopal K, Scharf SM, **Wise RA**, Sternberg AL, Kaczorowski D, Griffith B, Terrin M and Iacono A. Survival benefit of lung transplantation compared with medical management and pulmonary rehabilitation for patients with end-stage COPD. ERJ Open Res 2020; 6:10.1183/23120541.00177-2019. eCollection 2020 Apr
- 473. Rabe KF, Martinez FJ, Ferguson GT, Wang C, Singh D, Wedzicha JA, Trivedi R, St Rose E, Ballal S, McLaren J, Darken P, Aurivillius M, Reisner C, Dorinsky P and ETHOS Investigators (incl. RA Wise). Triple Inhaled Therapy at Two Glucocorticoid Doses in Moderate-to-Very-Severe COPD. N Engl J Med 2020; 383:35-48
- 474. Halpin DMG, Criner GJ, Dransfield MT, Han MK, Hartley B, Harvey C, Jones CE, Kato M, Lange P, Lettis S, Lomas DA, Martinez FJ, Martin N, Singh D, **Wise RA**, Zheng J and Lipson DA. Triple Versus Dual Combination Therapy in Chronic Obstructive Pulmonary Disease in Asian Countries: Analysis of the IMPACT Trial. Pulm Ther 2020;
- 475. Ghosh AJ, Moll M, Hayden LP, Bon J, Regan E, Hersh CP and COPDGene Investigators (Incl. **Wise R**). Vitamin D deficiency is associated with respiratory symptoms and airway wall thickening in smokers with and without COPD: a prospective cohort study. BMC Pulm Med 2020; 20:123-020-1148-4
- 476. Zaeh SE, Lu MA, Blake KV, Ruvalcaba E, Ayensu-Asiedu C, **Wise RA**, Holbrook JT and Eakin MN. "It is kind of like a responsibility thing": transitional challenges in asthma medication adherence among adolescents and young adults. J Asthma 2021; 1-11
- 477. Burkes RM, Couper DJ, Barjaktarevic IZ, Cooper CB, Labaki WW, Han MK, Woodruff PG, Lazarus SC, Parekh TM, Paine Iii R, Comellas AP, Bowler RP, Loehr LR, Putcha N, **Wise RA**, Brown TT and Drummond MB. Age-Dependent Associations Between 25-Hydroxy Vitamin D Levels and COPD Symptoms: Analysis of SPIROMICS. Chronic Obstr Pulm Dis 2021; 8:277-291
- 478. Yohannes AM, N Eakin M, Holbrook JT, Sugar EA, Henderson R, Baker AM, Casper AS, Kaminsky DA, Rea AL, Mathews AM, Que LG, Ramsdell JW, Gerald LB, **Wise R** and Hanania NA. Association of mild cognitive impairment and characteristic of COPD and overall health status in a cohort study. Expert Rev Respir Med 2021; 15:153-159
- 479. Hanania NA, Mannino DM, Criner GJ, Dransfield MT, Han MK, Jones CE, Kilbride S, Lomas DA, Martin N, Martinez FJ, Singh D, Wise RA, Halpin DMG, Lima R and Lipson DA. Effect of Age on the Efficacy and Safety of Once-Daily Single-Inhaler Triple-Therapy Fluticasone Furoate/Umeclidinium/Vilanterol in Patients With COPD: A Post Hoc Analysis of the Informing the Pathway of COPD Treatment Trial. Chest 2021; 159:985-995
- 480. Siddharthan T, Pollard SL, Jackson P, Robertson NM, Wosu AC, Rahman N, Padalkar R, Sekitoleko I, Namazzi E, Alupo P, Hurst JR, Kalyesubula R, Dowdy D, **Wise RA**, Barnes PJ, Checkley W and Kirenga B. Effectiveness of low-dose theophylline for the management of biomass-associated COPD (LODOT-BCOPD): study protocol for a randomized controlled trial. Trials 2021; 22:213-021-05163-2
- 481. Wise RA, Chapman KR, Scirica BM, Daoud SZ, Lythgoe D and Garcia-Gil E. The Impact of Exacerbation History on the Safety and Efficacy of Aclidinium in Patients with Chronic Obstructive Pulmonary Disease and Increased Cardiovascular Risk: ASCENT-COPD Trial. Int J Chron Obstruct Pulmon Dis 2021; 16:689-699

- 482. Turnier L, Eakin M, Woo H, Dransfield M, Parekh T, Krishnan JA, Kanner R, Cooper CB, Woodruff PG, **Wise RA**, Han MK, Romero K, Paulin LM, Peters S, Drummond B, Bleecker ER, Bowler R, Comellas AP, Couper D, Paine R, Martinez F, Barr G, Putcha N and Hansel NN. The influence of social support on COPD outcomes mediated by depression. PLoS One 2021; 16:e0245478
- 483. Bourdin A, Criner G, Devouassoux G, Dransfield M, Halpin DMG, Han MK, Jones CE, Kalhan R, Lange P, Lettis S, Lipson DA, Lomas DA, Echave-Sustaeta Maria-Tome JM, Martin N, Martinez FJ, Quasny H, Sail L, Siler TM, Singh D, Thomashow B, Watz H, Wise R and Hanania NA. InforMing the PAthway of COPD Treatment (IMPACT Trial) Single-Inhaler Triple Therapy (Fluticasone Furoate/Umeclidinium/Vilanterol) Versus Fluticasone Furoate/Vilanterol and Umeclidinium/Vilanterol in Patients With COPD: Analysis of the Western Europe and North America Regions. Chronic Obstr Pulm Dis 2021; 8:10.15326/jcopdf.2020.0158
- 484. Wu TD, Fawzy A, Kinney GL, Bon J, Neupane M, Tejwani V, Hansel NN, **Wise RA**, Putcha N and McCormack MC. Metformin use and respiratory outcomes in asthma-COPD overlap. Respir Res 2021; 22:70-021-01658-3
- 485. Han MK, Criner GJ, Dransfield MT, Halpin DMG, Jones CE, Kilbride S, Lange P, Lettis S, Lipson DA, Lomas DA, Martin N, Martinez FJ, **Wise RA**, Naya IP and Singh D. Prognostic value of clinically important deterioration in COPD: IMPACT trial analysis. ERJ Open Res 2021; 7:10.1183/23120541.00663-2020. eCollection 2021 Jan
- 486. Lipson DA, Han MK, **Wise R** and Martinez FJ. Reply to Lopez-Campos et al.: Triple-Therapy Trials for Chronic Obstructive Pulmonary Disease: Methodological Considerations in the Mortality Effect. Am J Respir Crit Care Med 2021; 203:928-929
- 487. Mason SE, Moreta-Martinez R, Labaki WW, Strand M, Baraghoshi D, Regan EA, Bon J, San Jose Estepar R, Casaburi R, McDonald MN, Rossiter H, Make BJ, Dransfield MT, Han MK, Young KA, Kinney G, Hokanson JE, San Jose Estepar R, Washko GR, COPDGene Investigators (incl. **Wise RA.**) and COPDGene(R) Investigators. Respiratory exacerbations are associated with muscle loss in current and former smokers. Thorax 2021;
- 488. D'Urzo AD, Singh D, Donohue JF, Chapman KR and **Wise RA**. Aclidinium bromide/formoterol fumarate as a treatment for COPD: an update. Expert Rev Respir Med 2021; 15:1093-1106
- 489. Sanders EC, Burkes RM, Mock JR, Brown TT, Wise RA, Hansel NN, Liu MC and Drummond MB. Bronchoalveolar Lavage and Plasma Cathelicidin Response to 25-Hydroxy Vitamin D Supplementation: A Pilot Study. Chronic Obstr Pulm Dis 2021; 8:371-381
- 490. Brigham EP, Anderson JA, Brook RD, Calverley PMA, Celli BR, Cowans NJ, Crim C, Diserens JE, Martinez FJ, McCormack MC, Newby DE, Yates J, Vestbo J, Wu TD and **Wise RA**. Challenging the obesity paradox: extreme obesity and COPD mortality in the SUMMIT trial. ERJ Open Res 2021; 7:10.1183/23120541.00902-2020. eCollection 2021 Jul
- 491. Wise RA, Scirica BM, Bhatt DL, Daoud SZ, Chuecos F, Garcia Gil E and Chapman KR. Efficacy of Aclidinium Bromide According to Baseline Therapy: Post-Hoc Analysis of ASCENT-COPD Randomized Trial. Adv Ther 2021; 38:5381-5397
- 492. Balasubramanian A, Henderson RJ, Putcha N, Fawzy A, Raju S, Hansel NN, MacIntyre NR, Jensen RL, Kinney GL, Stringer WW, Hersh CP, Bowler RP, Casaburi R, Han MK, Porszasz J, Make BJ, McCormack MC and Wise RA. Haemoglobin as a biomarker for clinical outcomes in chronic obstructive pulmonary disease. ERJ Open Res 2021; 7:10.1183/23120541.00068-2021. eCollection 2021 Jul
- 493. Sadreameli SC, Ahmed A, Curtin-Brosnan J, Perzanowski MS, Phipatanakul W, Balcer-Whaley S, Divjan A, Peng RD, Newman M, Cunningham A, Bollinger ME, **Wise RA**, Miller RL and Matsui EC. Indoor Environmental Factors May Modify the Response to Mouse Allergen Reduction Among Mouse-Sensitized and Exposed Children with Persistent Asthma. J Allergy Clin Immunol Pract 2021; ; 9:4402-4409.e2

- 494. Singh D, Criner GJ, Dransfield MT, Halpin DMG, Han MK, Lange P, Lettis S, Lipson DA, Mannino D, Martin N, Martinez FJ, Miller BE, **Wise RA**, Zhu CQ and Lomas D. InforMing the PAthway of COPD Treatment (IMPACT) trial: fibrinogen levels predict risk of moderate or severe exacerbations. Respir Res 2021; 22:130-021-01706-y
- 495. Wise RA, Holbrook JT, Brown RH, Criner GJ, Dransfield MT, Han MK, Krishnan JA, Looney E, Neptune E, Palombizio V and Rea A. Losartan Effects on Emphysema Progression Randomized Clinical Trial: Rationale, Design, Recruitment, and Retention. Chronic Obstr Pulm Dis 2021; 8:414-426
- 496. Putcha N, Anzueto AR, Calverley PMA, Celli BR, Tashkin DP, Metzdorf N, Mueller A and **Wise RA**. Mortality and Exacerbation Risk by Body Mass Index in Patients with COPD in TIOSPIR((R)) and UPLIFT((R)). Ann Am Thorac Soc 2022; 19:204-213
- 497. Fawzy A, Woo H, Balasubramanian A, Barjaktarevic I, Barr RG, Bowler RP, Comellas AP, Cooper CB, Couper D, Criner GJ, Dransfield MT, Han MK, Hoffman EA, Kanner RE, Krishnan JA, Martinez FJ, McCormack M, Paine Iii R, Peters S, **Wise RA**, Woodruff PG, Hansel NN and Putcha N. Polycythemia is Associated with Lower Incidence of Severe COPD Exacerbations in the SPIROMICS Study. Chronic Obstr Pulm Dis 2021; 8:326-335
- 498. McCormack MC, Balasubramanian A, Matsui EC, Peng R, **Wise RA** and Keet CA. Race, Lung Function and Longterm Mortality in the National Health and Examination Survey III. Am J Respir Crit Care Med 2021;
- 499. Hansel NN, Putcha N, Woo H, Peng R, Diette GB, Fawzy A, **Wise RA**, Romero K, Davis MF, Rule AM, Eakin MN, Breysse PN, McCormack MC and Koehler K. Randomized Clinical Trial of Air Cleaners to Improve Indoor Air Quality and COPD Health: Results of the CLEAN AIR STUDY. Am J Respir Crit Care Med 2022; 205:421-430
- 500. M, Barnes N, Bourke SC, Compton C, Criner GJ, Dransfield MT, Halpin DMG, Han MK, Hartley B, Jones CE, Lange P, Lettis S, Lipson DA, Lomas DA, Martin N, Martinez FJ, Wise R and Singh D. A single blood eosinophil count measurement is as good as two for prediction of ICS treatment response in the IMPACT trial. Eur Respir J 2021; 58:10.1183/13993003.04522-2020. Print 2021 Sep
- 501. Adcock IM, Bhatt SP, Balkissoon R and **Wise RA**. The Use of Inhaled Corticosteroids for Patients with COPD Who Continue to Smoke Cigarettes: An Evaluation of Current Practice. Am J Med 2022; 135:302-312
- 502. Goel K, Maleki-Fischbach M, George MP, Kim D, Richards J, **Wise RA** and Serban KA. A 56-Year-Old Man With Emphysema, Rash, and Arthralgia. Chest 2021; 160:e513-e518
- 503. Dixon AE, Blake KV, DiMango EA, Dransfield MT, Feemster LC, Johnson O, Roy G, Hazucha H, Harvey J, McCormack MC, Wise RA and Holbrook JT. The challenge of addressing obesity in people with poorly controlled asthma. Obes Sci Pract 2021; 7:682-689
- 504. Wise RA, Bafadhel M, Crim C, Criner GJ, Day NC, Halpin DMG, Han MK, Lange P, Lipson DA, Martinez FJ, Maselli DJ, Midwinter D, Singh D, Zysman M, Dransfield MT and Russell REK. Discordant diagnostic criteria for pneumonia in COPD trials: a review. Eur Respir Rev 2021; 30:210124. doi: 10.1183/16000617.0124-2021. Print 2021 Dec 31
- 505. Chapman KR, **Wise RA**, Scirica BM, Bhatt DL, Daoud SZ, Lythgoe D and Gil EG. Long-acting antimuscarinic therapy in patients with chronic obstructive pulmonary disease receiving beta-blockers. Respir Res 2021; 22:272-2
- 506. Kamenar K, Hossen S, Gupte AN, Siddharthan T, Pollard S, Chowdhury M, Rubinstein AL, Irazola VE, Gutierrez L, Miranda JJ, Bernabe-Ortiz A, Alam D, Kirenga B, Jones RC, van Gemert F, **Wise RA** and Checkley W. Previous tuberculosis disease as a risk factor for chronic obstructive pulmonary disease: a cross-sectional analysis of multicountry, population-based studies. Thorax 2021;
- 507. Ghosh AJ, Hobbs BD, Moll M, Saferali A, Boueiz A, Yun JH, Sciurba F, Barwick L, Limper AH, Flaherty K, Criner G, Brown KK, **Wise RA**, Martinez FJ, Lomas D, Castaldi PJ, Carey VJ, DeMeo DL, Cho MH, Silverman EK, Hersh

CP and COPDGene Investigators. Alpha-1 Antitrypsin MZ Heterozygosity Is an Endotype of Chronic Obstructive Pulmonary Disease. Am J Respir Crit Care Med 2022; 205:313-323

- 508. Chipps BE, Murphy KR, **Wise RA**, McCann WA, Beuther DA, Reibman J, George M, Gilbert I, Eudicone JM, Gandhi HN, Harding G, Ross M and Zeiger RS. Evaluating construct validity of the Asthma Impairment and Risk Questionnaire using a 3-month exacerbation recall. Ann Allergy Asthma Immunol 2022; 128:544-552.e3 509.
- 509. Aboumatar H, Garcia Morales EE, Jager LR, Naqibuddin M, Kim S, Saunders J, Bone L, Linnell J, McBurney M, Neiman J, Riley M, Robinson N, Rand C and **Wise RA.** Comparing Self-management Programs with and without Peer Support Among Patients with Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2022;
- 510. Tabberer M, Jones CE, Kilbride S, Halpin DMG, Lomas DA, Pascoe S, Singh D, Wise RA, Criner GJ, Lange P, Dransfield MT, Han MK, Martinez FJ, Kaisermann MC and Lipson DA. Correction to: Single-Inhaler Triple Therapy and Health-Related Quality of Life in COPD: The IMPACT Study. Adv Ther 2022; 39:1446-8
- 511. Thomashow B, Stiegler M, Criner GJ, Dransfield MT, Halpin DMG, Han MK, Lange P, Martinez FJ, Midwinter D, Singh D, Tabberer M, **Wise RA**, Lipson DA and Jones P. Higher COPD Assessment Test Score Associated With Greater Exacerbations Risk: A Post Hoc Analysis of the IMPACT Trial. Chronic Obstr Pulm Dis 2022; 9:68-79
- 512. Putcha N, Woo H, McCormack MC, Fawzy A, Romero K, Davis MF, Wise RA, Diette GB, Koehler K, Matsui EC and Hansel NN. InternDust Allergen Exposure Is Associated with Outcomes among Sensitized Individuals with Chronic Obstructive Pulmonary Disease. Am J Respir Crit Care Med 2022; 205:412-420
- 513. Calverley PMA, Martinez FJ, Vestbo J, Jenkins CR, Wise RA, Lipson DA, Cowans NJ, Yates J, Crim C and Celli BR. International Differences in the Frequency of COPD Exacerbations Reported in Three Clinical Trials. Am J Respir Crit Care Med 2022; 206:25-33
- 514. Ghosh AJ, Hobbs BD, Yun JH, Saferali A, Moll M, Xu Z, Chase RP, Morrow J, Ziniti J, Sciurba F, Barwick L, Limper AH, Flaherty K, Criner G, Brown KK, Wise RA, Martinez FJ, McGoldrick D, Cho MH, DeMeo DL, Silverman EK, Castaldi PJ, NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium and Hersh CP. Lung tissue shows divergent gene expression between chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis. Respir Res 2022; 23:97-w
- 515. Johnson O, Gerald LB, Harvey J, Roy G, Hazucha H, Large C, Burke A, McCormack M, **Wise RA**, Holbrook JT and Dixon AE. An Online Weight Loss Intervention for People With Obesity and Poorly Controlled Asthma. J Allergy Clin Immunol Pract 2022; 10:1577-1586.e3
- 516. McCormack MC, Balasubramanian A, Matsui EC, Peng RD, Wise RA and Keet CA. Race, Lung Function, and Long-Term Mortality in the National Health and Nutrition Examination Survey III. Am J Respir Crit Care Med 2022; 205:723-724
- 517. Martinez FJ, Agusti A, Celli BR, Han MK, Allinson JP, Bhatt SP, Calverley P, Chotirmall SH, Chowdhury B, Darken P, Da Silva CA, Donaldson G, Dorinsky P, Dransfield M, Faner R, Halpin DM, Jones P, Krishnan JA, Locantore N, Martinez FD, Mullerova H, Price D, Rabe KF, Reisner C, Singh D, Vestbo J, Vogelmeier CF, Wise RA, Tal-Singer R and Wedzicha JA. Treatment Trials in Young Patients with Chronic Obstructive Pulmonary Disease and Pre-Chronic Obstructive Pulmonary Disease Patients: Time to Move Forward. Am J Respir Crit Care Med 2022; 205:275-287
- 518. Khan S, Wise RA, Savarimuthu SM and Anesi GL. Association between pre-intensive care unit (ICU) hospital length of stay and ICU outcomes in a resource-limited setting. South Afr J Crit Care 2021; 37:10.7196/SAJCC.2021.v37i3.500. eCollection 2021

- 519. Beuther DA, Murphy KR, Zeiger RS, **Wise RA**, McCann W, Reibman J, George M, Gilbert I, Eudicone JM, Gandhi HN, Ross M, Coyne KS and Chipps B. The Asthma Impairment and Risk Questionnaire (AIRQ) Control Level Predicts Future Risk of Asthma Exacerbations. J Allergy Clin Immunol Pract 2022; 10:3204-3212.e2
- 520. Han MK, Ye W, Wang D, White E, Arjomandi M, Barjaktarevic IZ, Brown S, Buhr RG, Comellas AP, Cooper CB, Criner GJ, Dransfield MT, Drescher F, Folz RJ, Hansel NN, Kalhan R, Kaner RJ, Kanner RE, Krishnan JA, Lazarus SC, Maddipati V, Martinez FJ, Mathews A, Meldrum C, McEvoy C, Nyunoya T, Rogers L, Stringer WW, Wendt CH, Wise RA, Wisniewski SR, Sciurba FC, Woodruff PG and RETHINC Study Group. Bronchodilators in Tobacco-Exposed Persons with Symptoms and Preserved Lung Function. N Engl J Med 2022; 387:1173-1184
- 521. Wise RA, Holbrook JT, Brown RH, Criner GJ, Dransfield MT, He J, Henderson RJ, Kaminsky DA, Kaner RJ, Lazarus SC, Make BJ, McCormack MC, Neptune ER and Que LG. Clinical Trial of Losartan for Pulmonary Emphysema: Pulmonary Trials Cooperative Losartan Effects on Emphysema Progression Clinical Trial. Am J Respir Crit Care Med 2022; 206:838-845
- 522. Yohannes AM, Murri MB, Hanania NA, Regan EA, Iyer A, Bhatt SP, Kim V, Kinney GL, **Wise RA**, Eakin MN, Hoth KF and COPDGene Investigators. Depressive and anxiety symptoms in patients with COPD: A network analysis. Respir Med 2022; 198:106865
- 523. Balasubramanian A, Putcha N, MacIntyre NR, Jensen RL, Kinney G, Stringer WW, Hersh CP, Bowler RP, Casaburi R, Han MK, Porszasz J, Barr RG, Regan E, Make BJ, Hansel NN, **Wise RA** and McCormack MC. Diffusing Capacity and Mortality in Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2022;
- 524. Thompson PJ, Criner GJ, Dransfield MT, Halpin DMG, Han MK, Lipson DA, Maghzal GJ, Martinez FJ, Midwinter D, Singh D, Tombs L and **Wise RA**. Effect of chronic mucus hypersecretion on treatment responses to inhaled therapies in patients with chronic obstructive pulmonary disease: Post hoc analysis of the IMPACT trial. Respirology 2022; 27:1034-1044
- 525. Sharp M, Psoter KJ, Balasubramanian A, Pulapaka AV, Chen ES, Whittaker Brown SA, Mathai SC, Gilotra NA, Chrispin J, Bascom R, Bernstein R, Eakin MN, **Wise RA**, Moller DR and McCormack MC. Heterogeneity of Lung Function Phenotypes in Sarcoidosis: Role of Race and Sex Differences. Ann Am Thorac Soc 2022; Epub ahead of print
- 526. Zhang WZ, LaBedz SL, Holbrook JT, Gangemi A, Baalachandran R, Eakin MN, **Wise RA**, Sumino K and American Lung Association Airways Clinical Research Centers. Impact of the Coronavirus Disease 2019 Pandemic on Physical and Mental Health of Patients With COPD: Results From a Longitudinal Cohort Study Conducted in the United States (2020-2021). Chronic Obstr Pulm Dis 2022; 9:510-519
- 527. Wise RA, Holbrook JT and LEEP Investigators. Reply to: Selecting the Right Patient: The Achille's Heel of COPD Clinical Trials. (Letter) Am J Respir Crit Care Med 2022; 206:1053
- 528. Gabrio A, Gunsoy NB, Baio G, Martin A, Paly VF, Risebrough N, Halpin DMG, Singh D, **Wise RA**, Han MK, Martinez FJ, Criner GJ, Martin N, Lipson DA and Ismaila AS. Single-Inhaler Triple Therapy in Patients with Advanced COPD: Bayesian Modeling of the Healthcare Resource Utilization Data and Associated Costs from the IMPACT Trial. Int J Chron Obstruct Pulmon Dis 2022; 17:1633-1642
- 529. Wells JM, Criner GJ, Halpin DMG, Han MK, Jain R, Lange P, Lipson DA, Martinez FJ, Midwinter D, Singh D and **Wise RA**. Mortality Risk and Serious Cardiopulmonary Events in Moderate-to-Severe COPD: Post Hoc Analysis of the IMPACT Trial. Chronic Obstr Pulm Dis 2023; 10:33-45
- 530. Dixon AE, Que LG, Kalhan R, Dransfield MT, Rogers L, Gerald LB, Kraft M, Krishnan JA, Johnson O, Hazucha H, Roy G, Holbrook JT and **Wise RA**. Roflumilast May Increase Risk of Exacerbations When Used to Treat Poorly Controlled Asthma in People with Obesity. Ann Am Thorac Soc 2022;

- 531. Bardsley S, Criner GJ, Halpin DMG, Han MK, Hanania NA, Hill D, Lange P, Lipson DA, Martinez FJ, Midwinter D, Siler TM, Singh D, **Wise RA**, van Zyl-Smit RN and Berkman N. Single-inhaler triple therapy fluticasone furoate/umeclidinium/vilanterol versus dual therapy in current and former smokers with COPD: IMPACT trial post hoc analysis. Respir Med 2022; 205:107040
- 532. Gabrio A, Gunsoy NB, Baio G, Martin A, Paly VF, Risebrough N, Halpin DMG, Singh D, **Wise RA**, Han MK, Martinez FJ, Criner GJ, Martin N, Lipson DA and Ismaila AS. Single-Inhaler Triple Therapy in Patients with Advanced COPD: Bayesian Modeling of the Healthcare Resource Utilization Data and Associated Costs from the IMPACT Trial. Int J Chron Obstruct Pulmon Dis 2022; 17:1633-1642
- 533. Mathews AM, Riley I, Henderson R, Holbrook JT, Lang JE, Dixon AE, **Wise RA** and Que LG. Subgroup Analysis of a Randomized Trial of the Effects of Positive Messaging on Patient-Reported Outcomes with Asthma Effect of Obesity. J Asthma Allergy 2022; 15:1743-1751
- 534. Dransfield MT, Criner GJ, Halpin DMG, Han MK, Hartley B, Kalhan R, Lange P, Lipson DA, Martinez FJ, Midwinter D, Singh D, **Wise R** and Kunisaki KM. Time-Dependent Risk of Cardiovascular Events Following an Exacerbation in Patients With Chronic Obstructive Pulmonary Disease: Post Hoc Analysis From the IMPACT Trial. J Am Heart Assoc 2022; 11:e024350
- 535. Chipps B, Zeiger RS, Beuther DA, Reibman J, **Wise RA**, McCann W, Gilbert I, Eudicone JM, Gandhi HN, Harding G, Cutts K, George M and Murphy KR. The Asthma Impairment and Risk Questionnaire enhances the assessment of asthma control. Ann Allergy Asthma Immunol 2023; 131:436-443.e1
- 536. Balasubramanian A, Holbrook JT, Canning BJ, Que LG, Castro M, Make BJ, Rogers L, Busk MF, Rea A, McCook-Veal AA, He J, McCormack MC and **Wise RA**. Efficacy and tolerability of zinc acetate for treatment of chronic refractory cough: pilot randomised futility trial. ERJ Open Res 2023; 9:00678-2022. eCollection 2023 Mar
- 537. French MA, Keatley E, Li J, Balasubramanian A, Hansel NN, Wise R, Searson P, Singh A, Raghavan P, Wegener S, Roemmich RT and Celnik P. The feasibility of remotely monitoring physical, cognitive, and psychosocial function in individuals with stroke or chronic obstructive pulmonary disease. Digit Health 2023; 9:20552076231176160
- 538. Sharp M, Psoter KJ, Balasubramanian A, Pulapaka AV, Chen ES, Brown SW, Mathai SC, Gilotra NA, Chrispin J, Bascom R, Bernstein R, Eakin MN, Wise RA, Moller DR and McCormack MC. Heterogeneity of Lung Function Phenotypes in Sarcoidosis: Role of Race and Sex Differences. Ann Am Thorac Soc 2023; 20:30-37
- 539. Tran TV, Kinney GL, Comellas A, Hoth KF, Baldomero AK, Mamary AJ, Curtis JL, Hanania N, Casaburi R, Young KA, Kim V, Make B, Wan ES, Diaz AA, Hokanson J, Crapo JD, Silverman EK, Bhatt SP, Regan E, Fortis S, COPDGene® Investigators Core Units and COPDGene® Investigators (incl Wise RA) Clinical Centers. Prevalence of abnormal spirometry in individuals with a smoking history and no known obstructive lung disease. Respir Med 2023; 208:107126
- 540. Reibman J, Chipps BE, Zeiger RS, Beuther DA, **Wise RA**, McCann W, Gilbert I, Eudicone JM, Gandhi HN, Harding G, Cutts K, Coyne KS, Murphy KR and George M. Relationship Between Asthma Control as Measured by the Asthma Impairment and Risk Questionnaire (AIRQ) and Patient Perception of Disease Status, Health-Related Quality of Life, and Treatment Adherence. J Asthma Allergy 2023; 16:59-72
- 541. Dixon AE, Que LG, Kalhan R, Dransfield MT, Rogers L, Gerald LB, Kraft M, Krishnan JA, Johnson O, Hazucha H, Roy G, Holbrook JT and **Wise RA**. Roflumilast May Increase Risk of Exacerbations When Used to Treat Poorly Controlled Asthma in People with Obesity. Ann Am Thorac Soc 2023; 20:206-214
- 542. Regan EA, Lowe ME, Make BJ, Curtis JL, Chen QG, Cho MH, Crooks JL, Lowe KE, Wilson C, O'Brien JK, Oates GR, Baldomero AK, Kinney GL, Young KA, Diaz AA, Bhatt SP, McCormack MC, Hansel NN, Kim V, Richmond NE, Westney GE, Foreman MG, Conrad DJ, DeMeo DL, Hoth KF, Amaza H, Balasubramanian A, Kallet J, Watts S, Hanania NA, Hokanson J, Beaty TH, Crapo JD, Silverman EK, Casaburi R and Wise R. Use of the Spirometric "Fixed-Ratio" Underdiagnoses COPD in African-Americans in a Longitudinal Cohort Study. J Gen Intern Med 2023; 38:2988-2997

- 543. Mathews AM, Riley I, Henderson R, Holbrook JT, Lang JE, Dixon AE, Wise RA and Que LG. Subgroup Analysis of a Randomized Trial of the Effects of Positive Messaging on Patient-Reported Outcomes with Asthma Effect of Obesity. J Asthma Allergy 2022; 15:1743-1751
- 544. Synn AJ, Menson KE, Carnethon MR, Kalhan R, Sugar EA, Washko GR, Wise RA and Eakin MN. "It's a cause I believe in": factors motivating participation and engagement in longitudinal, respiratory-focused research studies. BMC Pulm Med 2023; 23:285-6
- 545. Kaminsky DA, He J, Henderson R, Dixon AE, Irvin CG, Mastronarde J, Smith LJ, Sugar EA, Wise RA and Holbrook JT. Bronchodilator response does not associate with asthma control or symptom burden among patients with poorly controlled asthma. Respir Med 2023; 218:107375
- 546. Yun JH, Khan MAW, Ghosh A, Hobbs BD, Castaldi PJ, Hersh CP, Miller PG, Cool CD, Sciurba F, Barwick L, Limper AH, Flaherty K, Criner GJ, Brown K, Wise R, Martinez FJ, Silverman EK, DeMeo D, Cho MH, Bick AG and NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium. Clonal Somatic Mutations in Chronic Lung Diseases Are Associated with Reduced Lung Function. Am J Respir Crit Care Med 2023;
- 547. Blake KV, Antal H, Bunnell HT, He J, Henderson R, Holbrook JT, McCahan SM, Pennington C, Rogers L, Shade D, Sugar EA, Taylor A, Wise RA and Wysocki T. Comprehension by Caregivers and Adolescents of Clinical Trial Information Delivered via Multimedia Video Versus Conventional Practice: Nonrandomized Controlled Trial. JMIR Pediatr Parent 2023; 6:e44252
- 548. Wise RA, Chipps B, Murphy KR, Beuther DA, Reibman J, McCann W, Gilbert I, Eudicone JM, Gandhi HN, Harding G, Cutts K, George M and Zeiger RS. Confirmatory cross-sectional validation of the Asthma Impairment and Risk Questionnaire. J Allergy Clin Immunol Pract 2023;
- 549. Balasubramanian A, Gearhart AS, Putcha N, Fawzy A, Singh, Anil MD, MPH, MMM, Wise RA, Hansel NN and McCormack MC. Diffusing Capacity as a Predictor of Hospitalizations in a Clinical Cohort of Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2023;
- 550. Regan EA, Lowe ME, Make BJ, Curtis JL, Chen QG, Crooks JL, Wilson C, Oates GR, Gregg RW, Baldomero AK, Bhatt SP, Diaz AA, Benos PV, O'Brien JK, Young KA, Kinney GL, Conrad DJ, Lowe KE, DeMeo DL, Non A, Cho MH, Kallet J, Foreman MG, Westney GE, Hoth K, MacIntyre NR, Hanania N, Wolfe A, Amaza H, Han M, Beaty TH, Hansel NN, McCormack MC, Balasubramanian A, Crapo JD, Silverman EK, Casaburi R and Wise RA. Early Evidence of COPD Obscured by Race-Specific Prediction Equations. Am J Respir Crit Care Med 2023;
- 551. Balasubramanian A, Holbrook JT, Canning BJ, Que LG, Castro M, Make BJ, Rogers L, Busk MF, Rea A, McCook-Veal AA, He J, McCormack MC and Wise RA. Efficacy and tolerability of zinc acetate for treatment of chronic refractory cough: pilot randomised futility trial. ERJ Open Res 2023; 9:00678-2022. eCollection 2023 Mar
- 552. Fawzy A and Wise RA. Pulse Oximetry Misclassifies Need for Long-Term Oxygen Therapy in Chronic Obstructive Pulmonary Disease. Ann Am Thorac Soc 2023; 20:1556-1557
- 553. Reibman J, Chipps BE, Zeiger RS, Beuther DA, Wise RA, McCann W, Gilbert I, Eudicone JM, Gandhi HN, Harding G, Cutts K, Coyne KS, Murphy KR and George M. Relationship Between Asthma Control as Measured by the Asthma Impairment and Risk Questionnaire (AIRQ) and Patient Perception of Disease Status, Health-Related Quality of Life, and Treatment Adherence. J Asthma Allergy 2023; 16:59-72

Chapters and Reviews

- 1. Britt EJ, **R Wise**, J Sylvester. "Localized Pulmonary Infiltrates". In: <u>The Principles and Practice of Medicine</u>, 20th ed, AM Harvey (ed) New York, Appleton-Century-Crofts, 1980.
- Wise RA, WR Summer. Pulmonary Mechanics and Artificial Support of the Arrested Circulation. In: <u>Clinics in</u> <u>Chest Medicine</u> 4(2):189-198 May 1983, W.B. Saunders Co. Philadelphia, Pa.

- Britt JE, RA Wise, and JT Sylvester. Localized Pulmonary Infiltration. In: <u>The Principles and Practice of</u> <u>Medicine</u>, Harvey, Johns, McKusick, Owens, and Ross (eds) 21st Ed. Appleton- Century Crofts, pp. 357-367, 1984.
- Summer WR, JR Michael, and RA Wise. Acute Respiratory Failure (ARF). In: <u>The Principles and Practice of Medicine</u>, Harvey, Johns, McKusick, Owens, and Ross (eds) 21st Ed. Appleton-Century Crofts, pp. 403-413, 1984.
- 5. **Wise RA** and WR Summer. Pulmonary Mechanics and Artificial Support of the Arrested Circulation. In: <u>Cardiology Clinics</u> C Venkata and S Ram (eds) W.B. Saunders Co., Philadelphia, PA., May 1984.
- 6. **Wise RA** and S Permutt. Evaluation of Lung Function: Determination of Pulmonary Impairment. DH Simmons (ed) In: <u>Current Pulmonology</u> Vol. 6, pp. 307-327, 1985, John Wiley & Sons, Inc. NY,
- 7. Permutt S, **R Wise**, and JT Sylvester. Interaction between the ventilatory and circulatory pumps. In: <u>The Thorax</u> Charis Roussos (ed) Marcel Dekker, Inc. Pub. pp. 701-735. 1985.
- Permutt S and Wise RA. Mechanical Interaction of Respiration and Circulation. A Fishman, (ed) In: <u>Handbook of Physiology</u>: Section 3: The Respiratory System. American Physiological Society. Vol. III, Mechanics of Breathing, Part 2, pp. 647-656, 1986.
- Permutt S and Wise RA. The control of cardiac output through coupling of heart and blood vessels. Frank CP Yin (ed) In: <u>Ventricular Vascular Coupling</u> pp. 159-179, Springer-Verlag, New York, 1986.
- 10. **Wise RA** and WR Summer. Cardiopulmonary Resuscitation. In: <u>Cardiopulmonary Critical Care</u> 2nd ed. D Dantzker (ed) Grune and Stratton. Orlando. 1986.
- Wise RA. Pulmonary Function Tests and Mortality. In: <u>Medical Section Proceedings</u> 1986: <u>American Council of Life Insurance</u> Washington, D.C. pp. 81-88. The Eleventh Annual Meeting of the Medical Section of the American Council of Life Insurance.
- 12. **Wise RA**. Basic studies in respiratory structure and function. In: <u>Year Book of Pulmonary Disease</u> GM Green (ed) Year Book Medical Publishers, Inc. Chicago, pp.15-57, 1986.
- 13. Wise RA. Respiratory structure and function. In: <u>Year Book of Pulmonary Disease</u> GM Green (ed) Year Book Medical Publishers, Inc. Chicago, pp. 13-49, 1987.
- 14. **Wise RA**. Respiratory structure and function. In: <u>Year Book of Pulmonary Disease</u> GM Green, (ed) Year Book Medical Publishers, Inc. Chicago, pp. 1-35, 1988.
- 15. Wise RA. Respiratory structure and function. In: <u>Year Book of Pulmonary Disease</u> GM Green, (ed) Year Book Medical Publishers, Inc. Chicago, pp. 1-51, 1989.
- Permutt S, Wise RA, and RG Brower. How changes in pleural and alveolar pressure cause changes in afterload and preload. In: Lung Biology in Health and Disease. Vol 42. "<u>Heart-Lung Interactions in Health and Disease</u>," SM Scharf, and SS Cassidy, eds. Marcel Dekker, Inc. New York, pp. 243-250, 1989.
- 17. **Wise RA**. Respiratory structure and function. In: <u>Year Book of Pulmonary Disease</u> GM Green, (ed) Year Book Medical Publishers, Inc. Chicago, pp. 277-305. 1990.
- 18. Smith PL, AR Schwartz, E Gauda, **R Wise**, R Brower, and S Permutt. The modulation of upper airway critical pressures during sleep. In: <u>Sleep and Respiration</u> 1990, Wiley-Liss, Inc., pp. 253-260.

- Wise RA and MJ Hausknecht. Interaction of Respiration and Circulation; Cardiopulmonary Resuscitation In: <u>Heart-Lung Interactions in Health and Disease</u>. SM Scharf, and SS Cassidy, (eds) Marcel Dekker, Inc. New York. pp. 565-577, 1990.
- 20. **Wise RA**. Chronic obstructive pulmonary disease and the peripheral circulation. In: <u>Chronic Obstructive</u> <u>Pulmonary Disease</u>. Neil S Cherniack (ed) W.B. Saunders Co. Phila. PA. 1991.
- Fessler H, and R Wise. Retour Veineux. In: <u>Hemodynamique: concepts et pratique en reanimation</u> JF Dhainaut, and D Payen (eds) Collection D'Anesthesiologie et de reanimation. publice sous la direction de F. Lemaire et J.M. Desmonts. Masson, Paris, pp. 27-38, 1991.
- 22. Wise RA. Pulmonary complications in collagen vascular disease. In: <u>Immunologically Mediated Pulmonary</u> <u>Diseases</u>. Lynch JP III, and RA DeRemee (eds) J.B. Lippincott Co. pp. 40-88, 1991.
- 23. **Wise RA**. Respiratory structure and function. In: <u>Year Book of Pulmonary Disease</u>. G M Green (ed) Year Book Medical Publishers, Inc. Chicago 1991.
- 24. **Wise RA** and WR Summer. Cardiopulmonary Resuscitation. In: <u>Cardiopulmonary Critical Care</u>, 2nd Edition, D Dantzker (ed) Saunders, Philadelphia. Florida 1991.
- 25. **Wise RA**. Pulmonary Pathophysiology and Evaluation of Lung Function. In: <u>The Principles of Nuclear Medicine</u> 2nd Ed. HN Wagner, Jr. (ed) W.B. Saunders Co., Philadelphia, PA 1994.
- Tashkin DF, MD Altose, JE Connett, RE Kanner, WW Lee, R Wise and The Lung Health Study Group. Airway Responsiveness in Irreversible Chronic Obstructive Pulmonary Disease. In: <u>Provocative Challenge Testing in</u> <u>Clinical Practice.</u> S L Spector (ed) Marcel Dekker, Inc. New York. Ch. 21. 1995.
- 27. Wigley FM, **Wise RA**. Systemic Sclerosis: Management of Pulmonary Involvement and "Evaluation of pulmonary involvement" In: <u>Connective Tissue Disorders</u>, Cower Medical Publishing, London 1994.
- Wise RA. Historical Perspectives on the Mechanical Interactions of Respiration and Circulation. In: <u>Interactions Cardio-Pulmonaires</u> Proceedings of Les interactions cardio-pulmonaires meeting in Lausanne, Switzerland, June 1995. C Perret (ed). Arnette, Paris, Publ.
- 29. Rand CS, **RA Wise**. Adherence with asthma therapy in the management of asthma. In: <u>Lung Biology in Health</u> <u>and Disease</u>, Vol. 86 <u>Severe Asthma: Pathogenesis and Clinical Management</u>, SJ Szefler and DYM Leung (eds) Marcel Dekker, Inc. pp 435-463, 1995.
- Magder S and Wise RA. Cardiopulmonary resuscitation. In: <u>Lung Biology in Health and Disease.</u>, Vol 85 <u>The Thorax</u>. C Roussos (ed) Marcel Dekker, Inc. pp 1641-1685. 1995.
- Janicki JS, DD Sheriff, JL Robotham, and RA Wise. Cardiac output during exercise: contributions of the cardiac, circulatory and respiratory systems. In: <u>Handbook of Physiology</u>, Section 12. <u>Exercise: Regulation and Integration of Multiple Systems</u> LB Rowell, JT Shepherd, (eds). Oxford University Press, New York, NY pp 649-704, 1996.
- Wise RA, MC Liu. Obstructive Airway Diseases: Asthma and Chronic Obstructive Pulmonary Disease. In: <u>Principles of Ambulatory Medicine</u>, 4th Edition. Barker LR, JR Burton, and PD Zieve (eds) Williams and Wilkins, Baltimore, MD pp 650-677, 1996.
- Wise RA, GG Weinmann. Chronic Obstructive Pulmonary Disease. In: <u>The Principles and Practice of Medicine</u>, 23rd Edition. Stobo JD, DB Hellmann, PW Ladenson, BG Petty, and TA Traill (eds) Appleton & Lange, Norwalk, CT pp 133-139, 1996.

- 34. **Wise RA**. Pulmonary function during pregnancy. In: <u>Asthma and Allergy in Pregnancy and Early Infancy</u>. Schatz M, RS Zeiger, HN Claman (eds) Marcel Dekker, Inc. 1997.
- 35. Rand CS, RB Mellins, F Malveaux, and **RA Wise**. The role of patient adherence in fatal asthma. Ch 28. In: <u>Fatal</u> <u>Asthma</u>. A Sheffer (ed). Marcel Dekker, Inc. pp 429-456, 1998.
- 36. **Wise RA.** Chronic Obstructive Pulmonary Disease. In: <u>The Consultation Guide</u>. Ladenson PW (ed) Baltimore: Lippincott Williams and Wilkins, 1999: 484-485.
- Wise RA and M Liu. Obstructive Airway Diseases: Asthma and Chronic Obstructive Pulmonary Disease. In: <u>Principles of Ambulatory Medicine</u>, 5th Edition. Barker LR, JR Burton, and PD Zieve (eds) Williams and Wilkins, Baltimore, MD pp 677-705, 1999.
- Wise RA and Polito AJ. Respiratory Physiologic Changes in Pregnancy. In: <u>Immunology and Allergy Clinics of</u> <u>North America. Asthma and Allergy During Pregnancy</u>. Schatz M (ed) W.B. Saunders Co., No. 20:4 Nov. 663-672, 2000.
- 39. Wise RA. The Epidemiology of Chronic Obstructive Pulmonary Disease. In: <u>Lung Volume Reduction Surgery</u> for Emphysema, Fessler HE, JJ Reilly, Jr., and DJ Sugarbaker (eds) Lung Biology in Health and Disease Monographs. Marcel Dekker, Vol 184, pp 1-22, 2004.
- Wise RA and MC Liu. Obstructive Airway Diseases: Asthma and Chronic Obstructive Pulmonary Disease. In: <u>Principles of Ambulatory Medicine</u>, 6th Edition. Barker LR, JR Burton, and PD Zieve (eds) Williams and Wilkins, Baltimore, MD, 2003.
- 41. Brown C and **Wise RA**. Pathophysiological Basis for Treatment of COPD. Lung development and regeneration, DJ Massaro, GD Massaro, P Chambon (eds) In: Lung biology in health and disease (v. 190) Marcel Dekker, 2004.
- 42. **Wise RA**. Understanding, Preventing, and Managing COPD. In: Advanced Studies in Medicine. Thomas PA (ed), Johns Hopkins University, Vol 4 (10A), p. S736, November 2004.
- 43. Holbrook JT, Shade DM, **Wise RA**. Data Collection and Quality Control. In: <u>Translational and Experimental</u> <u>Clinical Research</u> Schuster DP, Powers WJ (eds) Lippincott Williams & Wilkins, Philadelphia, 2005.
- 44. **Wise RA**, Holbrook JT, Meinert CL. Monitoring Experimental Interventions. In: <u>Translational and Experimental</u> <u>Clinical Research</u> Schuster DP, Powers WJ (eds) Lippincott Williams & Wilkins, Philadelphia, 2005.
- 45. **Wise RA,** Herpel LB. Obstructive Lung Disease. In: <u>The Johns Hopkins Internal Medicine Board Review</u>, 2008-2009 2nd Ed, Certification and Recertification. pp. 151-161 Miller RG, Ashar BH, Sisson SD (eds) Mosby Elsevier, Philadelphia, 2007.
- Wise RA, McCormack MC. Pulmonary Function Testing. In: <u>The Johns Hopkins Internal Medicine Board</u> <u>Review</u>, 2008-2009 2nd Ed, Certification and Recertification. pp. 161-165 Miller RG, Ashar BH, Sisson SD (eds) Elsevier, Philadelphia, 2007.
- Wise RA, MC Liu. Obstructive Airway Diseases: Asthma and Chronic Obstructive Pulmonary Disease. In: <u>Principles of Ambulatory Medicine</u>, 7th Edition. Barker LR, JR Burton, and PD Zieve (eds) Williams and Wilkins, Baltimore, MD, 2007.
- 48. **Wise RA.** Treatment of Chronic Obstructive Pulmonary Disease. In: Fishman's <u>Pulmonary Diseases and</u> <u>Disorders</u>. AP Fishman, J. Elias (eds) McGraw-Hill, New York. May 2008.
- 49. Wise RA. Giving new hope to patients with COPD: Introduction Evaluating optimal management strategies. In: Advanced Studies in Medicine. Johns Hopkins University. Pp. 443-444, 8(13):2008.

- 50. Wise RA. Proceedings: Current therapies and new approaches to the treatment of COPD. Evaluating optimal management strategies. In: <u>Advanced Studies in Medicine</u>. Johns Hopkins University. pp. 445-450, 8(13):2008.
- 51. McCormack MC, **Wise RA**. Respiratory Physiology in Pregnancy. In: <u>Pulmonary Problems in Pregnancy</u>. G. Bourjeily and K Rosene-Montella (eds) Humana Press. Pp 19-26, 2009
- 52. **Wise RA**. The Situation in North America: view from the United States. In: Multidisciplinary Respiratory Medicine. Official Scientific Journal of AIMAR. De Benedetto F, Donner CF, Sanguinetti CM (eds) 5(2): 2010.
- 53. **Wise RA.** Pulmonary medicine. In: Oxford American Handbook of Geriatric Medicine. Durso SC (ed). Oxford University Press. Ch 11, pp 325-362, 2010.
- 54. McCormack M, **R Wise**. Chronic Obstructive Pulmonary Disease. In: <u>the Netter Collection of Medical</u> <u>Illustrations: Respiratory System</u>. 2nd Ed D. Kaminsky (ed). Elsevier, 2011.
- 55. **Wise RA**, Drummond MB. Obstructive Lung Disease. In: The Johns Hopkins Internal Medicine Board Review, 4th Ed, pp. 133-140 Ashar BH, Miller RG, Sisson SD (eds) Elsevier, Baltimore, 2012.
- 56. **Wise RA**, McCormack MC. Pulmonary Function Testing. In: The Johns Hopkins Internal Medicine Board Review, 4th Ed, pp. 141-144 Miller Ashar BH, Miller RG, Sisson SD (eds) Elsevier, Baltimore, 2012.
- 57. Sumino, K., Holbrook JT, **Wise RA**, Rogers L. Asthma clinical trials of American Lung Association/Asthma Clinical Research Centers (ALA-ACRC): what have we learned in 12 years? Curr Respir Care Rep 2012 epub.
- 58. Wise RA, Brigham EP. Other Pulmonary Abnormalities Coexisting and Differential Diagnosis. In: Asthma Comorbidities, Coexisting Conditions, and Differential Diagnosis. pp. 139-147 Lockey RF, Ledford DK (eds) Oxford University Press 2014.
- 59. Wise RA, Drummond MB. Treatment of Chronic Obstructive Pulmonary Disease. In: Fishman's <u>Pulmonary</u> <u>Diseases and Disorders</u>. M. Grippi, J. Elias (eds) McGraw-Hill, New York. May 2008.
- 60. **Wise RA**, Drummond MB. Obstructive Lung Disease. In: The Johns Hopkins Internal Medicine Board Review, 4th Ed, pp. 142-150 Ashar BH, Miller RG, Sisson SD (eds) Elsevier, Baltimore, 2015.
- 61. **Wise RA**, McCormack MC. Pulmonary Function Testing. In: The Johns Hopkins Internal Medicine Board Review, 4th Ed, pp. 151-154 Miller Ashar BH, Miller RG, Sisson SD (eds) Elsevier, Baltimore, 2015.
- 62. Drummond MB, **Wise RA**. Chapter 42: Course and Treatment of Chronic Obstructive Pulmonary Disease. In: Fishman's <u>Pulmonary Diseases and Disorders</u>. M. Grippi, J. Elias, J. Fishman, R. Kotloff, A Pack, R Senior, M Siegel (eds) McGraw-Hill, New York. 2015.

Audiovisual Presentation

Respiratory Muscle Failure, The Johns Hopkins Medical Grand Rounds, Vol XI, Program 3, 1985.

Asthma in the Elderly, The Johns Hopkins Medical Grand Rounds, Vol XIX, Program 4, April 1993.

Dyspnea of Obscure Cause Recalcitrant Asthma, The Johns Hopkins Distinguished Author Series for Internal Medicine. CD Disc 7, Oakstone Medical Publishing, Birmingham, AL, December 2005.

Pulmonary Physiology Case Presentations, The Johns Hopkins Living Textbook (ed. H. Goldberg) 2006.

Chronic Obstructive Pulmonary Disease, The Diane Rehm Show, NPR. 2007. http://thedianerehmshow.org/shows/2007-03-01/chronic-obstructive-pulmonary-disease

COPD with sleep disturbance, including sleep apnea. Virtual case reviews. www.circulatecme.org 2009

Co-morbidities in COPD, Peer-to-peer podcast. www.circulatecme.org 2010

Comprehensive Management of COPD, VHAtv, https://www.youtube.com/watch?v=5U8-5rTh80g 2014

COPD Management: At the Confluence of Pharmacotherapies and Delivery Systems : 2017 <u>https://www.medscape.org/viewarticle/880337</u>

• Abstracts

- 1. Wang KP, **R Wise**, W Summer, P Terry. Successful cannulation of the left mainstem bronchus with a controllable suction catheter. Crit Care Med 6:100, 1978.
- 2. **Wise RA**, H Newball, S Permutt. Use of the rocking bed in chronic ventilatory failure due to neuropathic and myopathic disorders. Am Rev Respir Dis 117:195, 1978.
- 3. Wang KP, **R Wise**, J Kaplan, B Marsh. Comparison of large and small forceps for transbronchial biopsy in diffuse lung disease. Am Rev Respir Dis 117:190, 1978.
- 4. **Wise RA**, J Robotham, B Bromberger-Barnea, S Permutt. The effect of positive end-expiratory pressure on the aortic pressure-flow relationship. Fed Proc 38:1237, 1979.
- 5. **Wise RA**, J Robotham, B Bromberger-Barnea, S Permutt. Mechanism of elevation of left atrial pressure due to PEEP. Am Rev Respir Dis. 119:392, 1979.
- 6. **Wise RA**, J Robotham, B Bromberger-Barnea, WR Taylor, S Permutt. Left ventricular diastolic pressure by PEEP in the isolated *in-situ* heart. Physiologist 22: 134, 1979.
- 7. **Wise RA**, WR Taylor, B Bromberger-Barnea, S Permutt. Effect of positive end-expiratory pressure (PEEP) on determinants of venous return. Fed Proc 39:270, 1980.
- 8. Taylor WR, B Bromberger-Barnea, **RA Wise**. Left main coronary artery pressure-flow relationships throughout the cardiac cycle. Physiologist, 23:158, 1980.
- 9. Bromberger-Barnea B, **RA Wise**, WR Taylor. Instantaneous systolic and diastolic coronary pressure-flow relationships. Proceedings, XXVIII International Congress of Physiological Sciences Budapest, July, 1980.
- 10. Fisher J, **R Wise**, M Pinsky, M Weisfeldt, S Permutt, W Ehrlich. Respiratory pattern changes accompanying acute fall in cardiac output. Physiologist 23:181, 1980.

- 11. Bourguignon MH, KH Douglass, JM Links, **RA Wise**, W Ehrlich, HN Wagner. "Fully Automated Measurement of Global Ventricular Function: Am J of Cardiol 1981.
- 12. Bourguignon MH, **RA Wise**, W Ehrlich, K Douglass, E Camargo, K Harrison HN Wagner. Precision of gaited equilibrium radionuclide ventriculography (GERV) in measuring left ventricular stroke volume. Fed Proc 1981.
- Bourguignon MH, KH Douglass, JM Links, RA Wise, WE Ehrlich, HN Wagner. "Fully Automated Processing in Gaited Blood Pool Scintigraphy" J Nucl Med 22(6):P59, 1981.
- 14. Schneider PD, MC Hochberg, **RA Wise**, FM Wigley. "Serial Pulmonary Function in Patients with Systemic Sclerosis" Arthritis & Rheumatism, 24:S104, 1981.
- 15. Pinsky MR., WS Summers, **RA Wise**, B Bromberger-Barnea. Augmentation by phasic increases in pleural pressure in dogs. Am Rev Respir Dis 123(4):100, 1981.
- 16. **Wise RA**, WR Taylor, MR Pinsky, S Permutt, B Bromberger-Barnea. Effect of duty cycle and frequency on blood flow in a model of cardiopulmonary resuscitation (CPR). Fed Proc 41(5):1608, 1982.
- 17. **Wise RA**, WR Taylor, MR Pinsky, B Bromberger-Barnea, S Permutt. Aortic flow limitation during cardiopulmonary resuscitation (CPR). Am Rev Respir Dis 125:283, 1982.
- 18. Peters-Golden M, **RA Wise**, PD Schneider, MC Hochberg, and FM Wigley. A prospective evaluation of pulmonary function in systemic sclerosis. Clin Res 30(2):436A, 1982
- 19. Robotham J, **RA Wise**, B Bromberger-Barnea. Effects of abdominal pressure on regional blood flow and left ventricular performance. Am Rev Respir Dis 125:237, 1982.
- 20. Haponik EF, A Munster, PL Smith, **RA Wise**, ER Bleecker. Upper airway injury in bum patients: Evaluation with flow volume curves and fiberoptic nasopharyngoscopy. Chest 82:250, 1982.
- 21. Ettinger WH, **RA Wise**, FM Wigley. Absence of positional change in diffusing capacity in systemic sclerosis. Arthritis & Rheumatism 25(S):45, 1982.
- 22. Peters-Golden M, **RA Wise**, PD Schneider, MC Hochberg, FM Wigley. A prospective evaluation of pulmonary function in systemic sclerosis: Correlations of demographic and clinical features. Arthritis & Rheumatism 25(S):126, 1982.
- 23. Taylor WR, H Silverman, **RA Wise**, S Permutt, PL Smith, ER Bleecker. Circulatory mechanics during anaphylactic shock. Clinical Research 30(3):679A, 1982.
- 24. Taylor WR, HJ Silverman, **RA Wise**, S Permutt, PL Smith, ER Bleecker. Cardiovascular mechanisms of anaphylactic shock. The Physiologist 25(4):307, 1982.
- 25. Rodenheffer R, J Rommer, FM Wigley, **RA Wise**. A randomized double blind trial of nifedipine in the treatment of digital Raynaud's phenomenon. Am Heart Assoc 1982.
- 26. Ettinger WH, EF Haponik, FM Wigley, **RA Wise**. Physiologic correlations of laryngeal involvement in rheumatoid arthritis. Arth Rheum 26:S26, 1983.
- 27. Wigley FM, M Peters-Golden, **RA Wise**, P Schneider, MC Hochberg. Abnormalities in pulmonary function and mortality in systemic sclerosis. Arth Rheum 26:S27, 1983.
- 28. Wagner EM, PL Smith, **RA Wise**, ER Bleecker. Peripheral hemodynamics in anaphylactic shock. Fed Proc 42(5):1251, 1983.

- 29. Karam M, **R Wise**, TK Natarajan, S Permutt, HN Wagner. Effect of inspiratory threshold loading on left ventricular performance. Fed Proc 42(3):309, 1983.
- 30. Brower R, **R Wise**, C Hassapoyannes, S Permutt. The effect of lung inflation on pulmonary venous return. Fed Proc 42(3):594, 1983.
- 31. **Wise RA**, B Bromberger-Barnea, S Permutt. Effect of lung inflation on pulsus paradoxus. Fed Proc 42(3):595, 1983.
- 32. Peters-Golden M, **R Wise**, P Schneider, M Hochberg, F Wigley. Diffusing capacity as a predictor of five-year mortality in systemic sclerosis. Am Rev Respir Dis. 127(4):102, 1983.
- 33. Wise RA, B Bromberger-Barnea, H Scott, S Permutt. Effect of steady-state changes in pleural pressure on left ventricular (LV) performance. Am Rev Respir Dis. 127(4):312, 1983.
- 34. Hassapoyannes C, **R Wise**, R Brower, B Bromberger-Barnea, S Permutt. Effect of intrathoracic counter-pulsation on left ventricular performance. Am Rev Respir Dis. 127(4):311, 1983.
- 35. Stokes DC, **RA Wise**, RE Pyeritz, EA Murphy. Pulmonary function and the chest wall in short-limbed dwarfism. Am Rev Respir Dis 127(4):217, 1983.
- 36. Hausknecht MJ, R Brower, **RA Wise**, C Hassapoyannes, ML Weisfeldt, S Permutt. Lung inflation produces opposite effects in CPR depending on flow limitation. Circulation. 6g(4): 943, 1983.
- 37. **Wise RA**, C Hassapoyannes, R Brower, B Bromberger-Barnea and S Permutt. Ventricular Interdependence Does Not Cause Pulsus Paradoxus. Am Rev Respir Dis. 129(4):A335, 1984.
- 38. Ettinger WH, **RA Wise**, DA Schaffhauser, FM Wigley. Controlled double blind trial of dazoxiben and nifedipine in the treatment of Raynaud's phenomenon. Clin Res 32:718A, 1984.
- 39. Brower R, J Gottlieb, **R Wise**, S Permutt, JT. Sylvester. Hypoxia Causes Constriction of Venous Extra-alveolar Vessels in Isolated Ferret Lungs. Am Rev Respir Dis 129(4):A341, 1984.
- 40. Brower R, **R Wise**, C Hassapoyannes, M Hausknecht, S Permutt. The Longitudinal Distribution of Pulmonary Vascular Compliance. Fed Proc 43(4): 922, 1984.
- 41. **Wise RA**, M. Peters-Golden, RM Watson, FM Wigley. Prognostic value of ribonucleoprotein (RNP) in systemic sclerosis (PSS). Clin Res 318A, 1984.
- 42. Peters-Golden M, F Wigley, M Hochberg, **R Wise**. Incidence of Lung Cancer in Systemic Sclerosis. Am Rev Respir Dis 129(4):A326, 1984.
- 43. Synkowski DR, **RA Wise**, M Peters-Golden, RM Watson, F Wigley. Prognostic value of ribonucleoprotein (RNP) Antibody in Systemic Sclerosis (PSS). Clinical Research 32(2):618A, 1984.
- 44. Gottlieb J, R Brower, **R Wise**, S Permutt, and J Sylvester. Hypoxic pulmonary vasoconstriction (HPC) in isolated ferret lungs: Evidence for an extraalveolar locus. Fed Proc 43(4):922, 1984.
- 45. Smith PL, **RA Wise**, S Permutt. Upper airway pressure flow relationships in patients with obstructive sleep apnea. Am Rev Respir Dis 129(4):A245, 1984.
- 46. Natarajan TK, M Karam, **R Wise**, HN Wagner, Jr. Effect of positive pleural pressure on left ventricular performance. J Nucl Med 25:P5, May, 1984.

- 47. Malamet R, W Ettinger, **RA Wise**, and FM Wigley. Adaptability to cold provocation in Raynaud's phenomenon. Clin Res 32:701A, 1984.
- 48. Malamet R, WH Ettinger, **RA Wise**, FM Wigley. Nifedipine inhibition of platelet activation in Raynaud's. Clin Res 32:720A, 1984.
- 49. Hochberg MC, **RA Wise**, M Peters-Golden, FM Wigley. Incidence of lung cancer in systemic sclerosis. Am Rev Respir Dis 129:A326, 1984.
- 50. Scott TE, **RA Wise**, MC Hochberg, and FM Wigley. HLA-DR4, Smoking, and pulmonary function in rheumatoid arthritis (RA). Arth Rheum 29:S33, 1985.
- 51. Fuenning CR, **RA Wise**, RG Brower, and S Permutt. The mechanism of pulsus paradoxus in cardiac tamponade. Federation Proceedings, 44(5): 1379, 1985.
- 52. Brower R, JT Sylvester, C Fuenning, **R Wise**, and S Permutt. Flow-volume characteristics of the pulmonary circulation in normoxia and hypoxia. Am. Rev Respir Dis. 131(4): A410, 1985.
- 53. Fuenning CR, **RA Wise**, RG Brower, and S Permutt. The effect of end-expiratory pleural pressure on pulsus paradoxus in cardiac tamponade. Am Rev Respir Dis 13 1(4): A147, 1985.
- 54. Malamet R, **RA Wise**, FM Wigley. A longitudinal study of *in vivo* platelet activation in Raynaud's phenomenon. Clinical Research 33(3): 790A, 1985.
- 55. Scott TE, **RA Wise**, MC Hochberg, and FM Wigley. HLA-DR4, smoking, and pulmonary function in rheumatoid arthritis. Am Rev Respir Dis 133(4):A64, 1986.
- 56. Schwartz AR, PL Smith, AR Gold, **RA Wise**, S Permutt. Induction of obstructive sleep apnea in normal individuals. Am Rev Respir Dis 133(4): A307, 1986.
- 57. Gleadhill IC, **RA Wise**, SA Schonfeld, PP Scott, T Guarnieri, LSC Griffith, EP Veltri. Lung function in patients taking amiodarone. Circulation 74(4): 900, 1986.
- 58. **Wise RA,** R Malamet, F Wigley. Acute effects of nifedipine on digital hemodynamics in Raynaud's Phenomenon: A double-blind placebo controlled trial. Am Rheum Assoc 1986.
- 59. Scott T, **RA Wise**, R Malamet, FM Wigley. Nicardipine inhibits platelet activation in Raynaud's phenomenon. Arth Rheum 29:S51, 1986.
- 60. Schwartz AR, PL Smith, **RA Wise**, and S Permutt. The effect of pressure loads on upper airway collapsibility in obstructive sleep apnea. Am Rev Respir Dis 135(4): A183, 1987.
- 61. Fessler H, R Brower, **R Wise**, H Scott, S Permutt. Effects of early systolic *vs*. late systolic positive pleural pressure on left ventricular (LV) function. Am Rev Respir Dis 135(4): A114, 1987
- 62. **Wise RA**, JL Robotham. Determinants of inferior vena cava (IVC) blood flow with changes in abdominal pressure. Am Rev Respir Dis 135(4): A115, 1987.
- 63. Gleadhill IC, AR Schwartz, PL Smith, **RA Wise**, and S Permutt. Measurement of upper airway critical pressure in patients with obstructive hypopnea. Am Rev Respir Dis 135(4): A185, 1987.
- 64. Fessler H, R Brower, **R Wise**, H Scott, S Permutt. The effect of systolic *vs*. diastolic positive pleural pressure on left ventricular (LV) afterload. Federation Proceedings 46(3): 497, 1987.

- 65. Brower R, A Dunn, **R Wise**, JT Sylvester, S Permutt. Effects of hypoxia on determinants of edema formation in isolated ferret lungs. Am Rev Respir Dis 137(4):A108, 1988.
- 66. Fessler H, R Brower, **R Wise**, H Scott, S Permutt. Effects of positive pleural pressure on myocardial perfusion. Am Rev Respir Dis 137(4):A293, 1988.
- 67. Fessler H, R Brower, **R Wise**, H Scott, S Permutt. Effects of systolic and diastolic positive pleural pressure on cardiac output with altered cardiac contractility. Am Rev Respir Dis 137(4):A293, 1988.
- 68. Rand CS, Tashkin D, **Wise RA**, Nides M, Simmon M, Bleecker ER. How accurate are canister weighing and selfreport as measures of metered-dose inhaler compliance in a clinical trial? Am Rev Respir Dis 139(4):A16, 1989.
- 69. Schwartz AR, Gold AR, **Wise RA**, Permutt S, Smith PL. Effect of weight loss on upper airway collapsibility in obstructive sleep apnea. Am Rev Respir Dis 137(4):A126, 1988.
- 70. Schwartz A, Brower R, Smith P, **Wise RA**, Permutt S. Mechanism of inspiratory flow limitation in the isolated canine upper airway during neuromuscular blockade. Am Rev Respir Dis 139(4):A79, 1989.
- 71. Seibold JR, Wigley FM, **Wise RA**, Schaffhauser D, Fico-Soja A, McCloskey D, and Dole WP. Intravenous carbaprostacyclin treatment of Raynaud's phenomenon (RP) secondary to systemic sclerosis (SS). Am Rheum. Assoc. 1989.
- 72. Fessler H, R Brower, **R Wise**, A Dunn, S Permutt. Effects of abdominal pressure (Pabd) and elastance (Eabd) on venous return (VR) during positive end-expiratory pressure (PEEP). Fed Proc 3(4):A1182, 1989.
- 73. Mikdashi JA, **RA Wise**, RJ Spence, FM Wigley. Absence of digital reactive hyperemia in patients with systemic sclerosis (SS). Arth Rheum 32:S94, 1989.
- 74. Fessler HE, RG Brower, **RA Wise**, D Roach, S Permutt. Effects of positive end-expiratory pressure (PEEP) on the Determinants of venous return (VR) from the superior and inferior vena cavae (SVC and IVC). Am Rev Respir Dis 141(4):A66, 1990.
- 75. Blosser SL, **RA Wise**, FM Wigley. Translaryngeal resistance during phonation is increased in patients with rheumatoid arthritis. Am Rev Respir Dis 141(4): A926, 1990.
- 76. Schwartz AR, D Thut, E Gauda, **RA Wise**, S Permutt, PL Smith. Effect of phasic neuromuscular activity (NMA) on airflow mechanics in the isolated canine upper airway. Am Rev Respir Dis. 141(4): A742, 1990.
- 77. Wigley FM, R Miller, and **R Wise**. Ischemic loss of multiple digits associates with sclerodactyly ALO in patients with systemic sclerosis. Am Col Rheum. Dec. 1990.
- 78. Seibold JR, McCloskey DA, Peek R, Underwood J, Wigley FM, **Wise RA**, Mayes IVD, Dole WP. Iloprost treatment of digital ulcerations secondary to systemic sclerosis (SSc). Am Col Rheum Jan. 1991.
- 79. Fessler H, RG Brower, **RA Wise**, D Roach, S Permutt. Effects of PEEP and body position on the pressure gradients in the thoracic great veins. Am Rev Respir Dis 143(4):A243, 1991
- 80. Kanner RE, MD Altose, JE Connett, WW Lee, DP Tashkin, **RA Wise**. The lung health study (LHS): Analysis of male-female prevalence differences in airway hyperreactivity in smokers with mild COPD. Am Rev Respir Dis 143(4):A442, 1991.
- 81. Becker PM, JT Sullivan, KL Preston, DR Jasinski, F Wigley, **RA Wise**. Effects of Intravenous cocaine on pulmonary and peripheral blood flow. Am Rev Respir Dis 145 (4):A594, 1992.

- 82. Alms WJ, FM Wigley, **R Wise**, ER Bleecker, BS Needleman. Immunologic analyses of broncho-alveolar lavage (BAL) cells from scleroderma patients and controls. Arth Rheum 35:S38, 1992.
- 83. Jabs EW, CM Tucker-Muller, GJ Anhalt, W Earnshaw, **RA Wise**. Cytogenetic survey in systemic sclerosis: correlation of aneuploidy with the presence of anticentromere antibodies. Am College of Rheumatology 1992.
- 84. Flynn JA, S Schulman, **R Wise**, F Wigley. Electrocardiographic silent myocardial ischemia is common in patients with systemic sclerosis. Am College of Rheumatology 1992.
- 85. Yurovsky VV, FM Wigley, **RA Wise**, and B White. Evidence for oligoclonality of Vδ1+T cell antigen receptor transcripts in scleroderma patients. J Immunol 150(8):73A, 1993.
- 86. Enright PL, MK Cowles, **RA Wise**, RE Kanner, DP Tashkin, JE Connett. The two-point slope analysis method is better than PD-20 to express the bronchial reactivity of 5734 cigarette smokers. European Respiratory Society 1993.
- 87. Owen M, **R Wise**. Myasthenia gravis and upper airway obstruction. Am J Resp and Crit Care Med 151(4):A752, 1995.
- 88. Weeks K, C Rand, **R Wise**, B Bender, H Milgrom. Home use of a computerized peak flow meter in asthmatic patients. Am J Resp and Crit Care Med 151(4): 1995.
- 89. Atames S, W Alms, V Yurovsky, **R Wise**, E Bleecker, F Wigley, B White. Production of Tc2 cytokines in the lungs of systemic sclerosis (Ssc) patients with alveolitis. Arthritis Rheum 39:S232, 1996.
- 90. Moore W, **R Wise**, F Wigley, C White, B White. Stabilization or improvement of pulmonary function in systemic sclerosis patients (Ssc) with alveolitis treated with cyclophosphamide (CYP), compared to untreated patients. Arthritis Rheum 39:S319, 1996.
- 91. Punjabi N, **R Wise**. Single breath helium dilution in the assessment of static lung volumes. Am J Resp and Crit Care Med 155:A907, 1997.
- 92. Wise RA. Sjögren's syndrome -- dry lung. Pediatric Pulmonology. Suppl 13:179, 1996
- 93. Weeks K, C Rand, **R Wise**. Reliability of the thermistor-actuated metered dose inhaler (MDI) chronolog. Am J Resp and Crit Care Med 155(4):A259, 1997.
- 94. Weeks K, C Rand, **R Wise**. Guidelines for interpreting metered dose inhaler (MDI) adherence with a thermistoractuated MDI chronolog. Am J Resp and Crit Care Med 155(4):A310, 1997.
- 95. Moore W, **R Wise**, F Wigley, C White, B White. Stabilization or improvement of pulmonary function in systemic sclerosis patients (Ssc) with alveolitis treated with cyclophosphamide (CTX), compared to untreated patients. Am J Resp and Crit Care Med 155(4):A741, 1997.
- 96. Punjabi N, **R Wise**. Single breath helium dilution in the assessment of static lung volumes. Am J Resp and Crit Care Med 155(4):A906, 1997.
- 97. Punjabi NM, DJ O'Hearn, AR Schwartz, PL Smith, **RA Wise**, DE Ford, KJ Badeen-Roche. Determinants of multiple sleep latency test (MSLT) in patients with obstructive sleep apnea (OSA). Am J Resp and Crit Care Med 157(3):A51, 1998.
- 98. Rand C, K Weeks, V Santopietro, **R Wise**. Patient adherence with bronchodilator therapy is superior with salmeterol. Am J Resp and Crit Care Med 157(3):A274, 1998.

- 99. Weeks K, V Santopietro, **R Wise**, C Rand. PRN bronchodilator use in a clinical trial of adherence to salmeterol and albuterol therapy. Am J Resp and Crit Care Med 157(3):A275, 1998.
- 100. Taylor ML, PW Noble, B White, MC Liu, **R Wise**, BS Bochner. Alveolar macrophages (AM) in interstitial lung disease (ILD) display an activated surface phenotype. Am J Resp and Crit Care Med 157:(3):A72, 1998.
- Greidinger EL, RA Wise, FM Wigley, A Rosen. Topoisomerase I antibodies and race: independent associations with pulmonary function in patients with diffuse scleroderma. Arthritis and Rheumatism Abstract Supplement 40(9): S101: September 1997.
- 102. White P, G Diette, S Otterbein, **RA Wise**. Cytopathology on-site evaluation improves diagnostic success in fiberoptic bronchoscopy evaluation of suspected lung cancer. Am J Resp and Crit Care Med 157(3):A223, 1998.
- 103. Diette G, P White, S Otterbein, **RA Wise**. Predictors of pneumocystis carinii (PC) recovery by fiberoptic bronchoscopy in immune compromised (IC) patients. Am J Resp and Crit Care Med 157(3):A237, 1998.
- 104. Diette G, P White, M Jenckes, S Otterbein, **RA Wise**, H Rubin. Patient reported symptoms from fiberoptic bronchoscopy. Am J Resp and Crit Care Med 157(3):A222, 1998.
- Punjabi NM, KJ Bandeen-Roche, DJ O'Hearn, RP Allen, AR Schwartz, PL Smith, RA Wise, DE Ford. Prediction of obstructive sleep apnea (OSA) using symptom scores from the Hopkins Sleep Survey. Am J Resp and Crit Care Med 157(3):A649, 1998.
- Luzina IG, SP Atamas, R Wise, FM Wigley, B White. Global analysis of gene expression in unseparated and CD8+ Cells from bronchoalveolar lavage of patients with scleroderma lung disease. ACR 64th Annual Scientific Meeting, 2000.
- 107. Schiller K, V Santopietro, **R Wise**, C Rand, M Simmons. Concomitant inhaled corticosteroid and PRN bronchodilator use. ATS 2001 Annual Scientific Meeting
- 108. Schiller K, V Santopietro, **R Wise**, C Rand, C Demuro-Mercon. Validation of a metered-dose inhaler adherence scale. ATS 2001 Annual Scientific Meeting.

(After 2001, Abstracts are located on-line)

Inventions, Patents, Copyrights (pending, awarded)

Ambulatory surface skin temperature monitor patents/US6847913US Pat. 6847913 - Filed Oct 4, 2002 - Issued Jan 25, 2005 - The Johns Hopkins University

Pulmonary Function Laboratory Data Management System, Copyright 1999-2012

Extramural Funding (current, pending, previous)

CURRENT

S-ALP1920-CF41 Wise (PI)

09/06/2016 - 07/31/21GWU/NIH - Subaward

Pulmonary Complications in a Birth Cohort after a Randomized Trial of Exposure to Antenatal Corticosteroids: the ALPS Follow-Up Study

The goal of this study is to determine whether corticosteroids given to mothers of late pre-term infants lead to a reduction in childhood respiratory illness and improved lung function. Role: PI

CDR-1507-31247 Aboumatar (PI)

Patient Centered Outcomes Research Institute(PCORI)

Comparing Effectiveness of Self-management and Peer Support Communication Programs amongst Chronic Obstructive Pulmonary Disease Patients and their Family Caregivers

The goal of this project is to compare the effectiveness of a physician-centered compared to a peer-centered selfmanagement program to improve health status and reduce healthcare utilization in patients with COPD. Role: Co-PI

1U01HL146408-01 Sugar (PI)

Northwestern University/NHLBI

The American Lung Association (ALA) Lung Health Cohort

The goal of this project is to establish a cohort of 4000 young adults at the age of peak lung health (25-35) to determine risk factors for impaired lung health and the development of airways disease. Role: Co-Investigator

90085473 Wise (PI)

Clinical Trial (4DX)

Proof of concept Functional Lung Imaging and Ventilation (4DX) analysis COPD

The goal of this study is to examine the feasibility of Novel Functional Lung Imaging and Ventilation (4DxV) Analysis software to measure lung ventilation abnormalities and to compare the 4DxV data obtained at first visit to spirometry and a recent-CT (not performed for this study).

Role: PI

761126-0-RSUB Wise (PI)

NIH/Nemours Children Clinic (MATCH)

Improving Medication Adherance with Teleheathcare Medication Therapy

The long-term goal is to develop a tailored, effective, and sustainable MTM video telehealthcare intervention to increase medication adherence and improve health outcomes. Role: PI

Clinical Trial PT010005 Wise (PI)

Pearl Therapeutics

A Randomized, Double-Blind, Multi-Center, Parallel Group Study to Assess the Efficacy and Safety of PT010 Relative to PT003 and PT009 on COPD Exacerbations over a 52-Week Treatment Period in Subjects This is a randomized, double-blind, multi-center, parallel group study to assess the efficacy and safety of PT010 relative to PT003 and PT009 on COPD exacerbations over a 52-week treatment period in subjects with frequent exacerbations. Role: PI

06/15/19 - 04/30/2025

09/18/19-09/18/21

05/01/2018 - 03/31/2023

06/29/15 -- 07/12/20

07/01/16 -06/30/20

55

R01HL126549 Kirk (PI)

NIH

Predictors, consequences and mechanisms of accelerated lung aging in HIV

The goal of this program is to establish risk factors, associated co-morbidities, and immunologic and inflammatory biomarkers associated with accelerated decline in lung function in the SHIELD cohort of HIV-positive inner-city intravenous drug users.

Role: Co-Investigator

R34HL132369 Wise (PI) NIH-NHLBI

Pilot Study of Zinc Acetate for Chronic Cough

This is a pilot study to determine the feasibility and to inform the design of a clinical trial of Zinc supplementation for treatment of chronic refractory cough. Role: PI

T32 HL007534 Wise (PI)

NIH-NHLBI

Multidisciplinary training program in lung diseases

The goal of this program is to produce independent biomedical scientists to investigate the mechanisms, manifestations, preventions and cures of lung diseases. Role: PI

IH-1304-711: Aboumatar (PI)

Patient Centered Outcomes Research Institute

An Integrative Multilevel Study for Improving Patient-Centered Care Delivery

The goal of the study is to conduct a comparative effectiveness study to compare patient caregiver and family centered strategies to usual care in order to prevent hospital readmissions for COPD. (Role: Co-PI)

Award ID: 24020306

National Jewish Health (Sub)

Genetic Epidemiology of COPD Program: Clinical Study Center

The aim of this research is to enroll and characterize patients with COPD and first-degree relatives, so that genetic determinants of susceptibility to this disease can be established through association and linkage methods using genomewide genotyping.

Role: PI

902443 Wise (PI)

American Lung Association (funded by GlaxoSmithKline)

Title: ALA - ACRC Leukotriene Modifier of Corticosteroid Trial (LOCCS)

The LOCCS trial is a clinical trial to determine the relative efficacy of step-down treatments in patients with wellcontrolled asthma on inhaled twice-daily corticosteroids. The step-down treatment arms included once-daily salmeterolfluticasone combination and once-daily montelukast. Participants in the trial also donated bio-specimens that are being stored for on-going research.

90083894: American Lung Association Wise (PI)

ACRC- Airway Clinical Reaserch Centers Coordinating Center

This is a data coordinating center for the ALA-ACRC which is a network of 17 centers at 23 sites that conduct clinical research in airway diseases including asthma, COPD, and chronic cough. Role: PI

PCS-1504-30430: PCORI/Clinical Trial Putcha (PI) **RofLumilast or Azithromycin to preveNt (RELIANCE) Study** Johns Hopkins is a clinical site to enroll participants with COPD into the Reliance Trial Rile: Co-Investigator (study site)

09/15/14 - 05/31/20

56

09/01/16 - 06/30/20

07/01/13 - 06/30/23

11/01/13-10/31/20

01/01/13-07/31/20

10/01/02 - 6/30/2020

07/01/17-06/30/21

11/1/17-12/15/23

Wise (PI)

PREVIOUS (5-years)

1237.19 (Wise)	03/01/14 - 12/31/17	0.12 cal months
Boehringer Ingelheim	\$145,948	
A randomised, double-blind, active-o	controlled parallel group study to evaluate	the effect of 52 weeks of once daily
treatment of orally inhaled tiotropiu	m + olodaterol fixed dose combination com	pared with tiotropium on Chronic
Obstructive Pulmonary Disease (CO	PD) exacerbation in patients with severe to	o very severe COPD. [DYNAGITO]
The goal of this study is to determine the	he effect of one-year of treatment with tiotrop	bium-olodaterol combination compared
to tiotropium alone on COPD exacerba		*
1 A	1	
(Aboumatar)	07/01/16 -06/30/20	0.60 cal months
Patient Centered Outcomes Research In		
	nagement and Peer Support Communication	on Programs amongst Chronic
Obstructive Pulmonary Disease Patie		
	he effectiveness of a physician-centered com	nared to a neer-centered self-
	h status and reduce healthcare utilization in p	
management program to improve near	in status and reduce heartheare utilization in p	attents with COLD.
IH-1304-7118 (Aboumatar)	11/01/13-04/30/18	1.20 cal months
Patient Centered Outcomes Research In		1.20 car months
	Improving Patient-Centered Care Delivery	7
	omparative effectiveness study to compare pa	
•		tient caregiver and family centered
strategies to usual care in order to preve	ent nospital readmissions for COPD.	
P30AG021334 (Walston)	07/15/13 - 06/30/18	0.60 cal months
	\$691,083	0.00 car monuis
NIH		
Older Americans Independence Cen		
	e biological genesis of frailty in elderly patier	
will provide consultative and logistic s	upport for clinical research conducted in the p	project.
Clinical Trial PT010005 (Wise)	06/29/15-07/12/18	0.12 cal months
		0.12 cal months
Pearl Therapeutics	\$283,842	a Efficiency and Safety of DT010
	-Center, Parallel Group Study to Assess th	
	PD Exacerbations over a 52-Week Treatm	
	lti-center, parallel group study to assess the e	
P1003 and P1009 on COPD exacerbat	ions over a 52-week treatment period in subje	ects with frequent exacerbations.
R01HL126549 (Kirk)	09/15/14 - 05/31/18	0.36 cal months
NIH	\$499,997	0.50 cui montifis
	nisms of accelerated lung aging in HIV	
· •	000	many alagia and inflorementary
	risk factors, associated co-morbidities, and i decline in lung function in the SHIELD coho	
	decline in lung function in the SHIELD cond	or of HIV-positive inner-city
intravenous drug users.		
R34HL132369 (Wise)	09/01/16 - 06/30/2019	0.60 cal months
		0.00 cai monuis
NIH Bilat Study of Zing Agatata for Churc	\$175,000	
Pilot Study of Zinc Acetate for Chro		1 trial of Zing grant and the for
This is a prior study to determine the fe	asibility and to inform the design of a clinica	i that of Zinc supplementation for

treatment of chronic refractory cough.

T32 HL007534 (Wise) NHLBI	07/01/13 - 06/30/18 \$1,135,574	0.60 cal months
Multidisciplinary training program in lung o The goal of this program is to produce independent manifestations, preventions and cures of lung d	dent biomedical scientists to investig	gate the mechanisms,
U01HL121814 (Kirk) NIH	09/26/13-07/31/18 \$533,005	0.36 cal months
Immune Mechanisms of HIV-associated CO This proposal directly addresses critical gaps in associated COPD and will identify key biologic	our understanding of the clinical sp	ectrum and consequences of HIV-
disease. Findings will inform the clinical manage and may also inform broader strategies for COF		
U01HL128951 (Wise) NHLBI	08/01/15 - 07/31/19 \$225,000	1.20 cal months
Effect of Losartan on Progression of Emphy This is a multicenter trial to determine whether progression of emphysema in patients with CO	the angiotensin receptor antagonist	losartan is effective in reducing the
R01HL119476-01A1 (Armanios) \$339,8	07/15/14-04/30/19	1.20 cal months NHLBI
Mechanisms of Telomere-Induced Emphysen promotes emphysema in mice and in humans.	ma This award examines the mechan	nisms by which telomere dysfunction
R01HL125432-01A1 (Drummond) NIH/UNC	04/01/15 – 02/29/20 pending relinquish and JH	0.60 cal months U \$332,140
Cathelicidin and Vitamin D: Impact on Popu This proposal will use two unique cohorts to de impairment and pulmonary outcomes in individ- intervention to augment cathelicidin within the improve the understanding of factors which car provide the justification to study vitamin D as a	fine the role of the antimicrobial pep luals at-risk and with established CC lung compartment with vitamin D re a lead to chronic lung disease. If effe	PPD, as well conduct a proof-of-concept eplacement. This application will
HHSN26800736197C (Tonascia) NHLBI	10/31/06-05/31/15 \$3,307,740	1.20 cal months (10%)
Long-Term Oxygen Treatment Trial (LOTT) – Coordinating Center for a multi-center clinical patients with COPD and moderate hypoxemia. (90027415 / 906398 - 90048060 / 111441)		oxygen treatment improves survival in
SCO104960 (Wise) GSK	03/15/06-12/31/15 \$527,058	0.12 cal months (1%)
Longitudinal Study A multicentre 3-year longitudinal prospective s volume in 1 second FEV1 for their ability to me	tudy to identify novel endpoints and	

SCO104960 ECLIPSE. (90023739/905290)

DC002N (Wise) ALA	10/01/02-06/30/15 \$816,828	0.12 cal months (1%)
ACRC Asthma Clinical Trials Network (COR) To establish a network of clinical research cen with asthma. (90003237/902444)		o establish improved care for people
Study Protocol #115922 (Wise) ALA	\$1.6 million (total costs f	0.12 cal months (1%) for DCC)
Long-acting beta-agonist step-down study (LA Proposing a 56 week multicenter, prospective, comparing three approaches to care of patients reduction of ICS and continuation of stable dos resembles clinical practice and determine the of over 48 weeks of follow-up. (90048911/111895)	randomized, three-arm parallel grou with asthma well-controlled for threese ICS/LABA. The primary goal is	ee months on combination ICS/LABA: to perform a pragmatic study that
UCLA (Wise) Subaward – NIH prime R01HL089901 <u>Mycophenolate vs. Oral Cyclophosphamide in</u> The aim of this research is to provide a clinical scleroderma lung disease. (90038403 / 106077)		
R01HL105546 (Schneider) NIH Pathogenesis and Outcomes of Sleep Disorder This project will pilot novel methods for explo		0.48 cal months (4%) ogenesis and treatment in COPD.
(90046549 / 110511) NJMRC (Wise) Subaward – NIH prime U01HL089897 <u>COPD Genetic Epidemiology Program: Clinic</u> The aim of this research is to enroll and charac determinants of susceptibility to this disease ca wide genotyping. (90033395 / 102999)	eterize patients with COPD and first-	
U01 AI083238-01A1 (Matsui) NIH <u>Mouse Allergen and Asthma Intervention Tria</u> The goal of this study is to conduct a multi-site inner-city dwellings to determine if severity of (90042373 and 90042374 / 107952)	e study of a multi-disciplinary appro	0.48 cal months (4%) ach to abatement of mouse antigen in
Clinical Innovator Award (Biswal) Flight Attendant Medical Research Institute <u>Develop a Proof of Concept Trial of a Novel T</u> The goal of this translational proposal is to cor determine whether enhancing Nrf2 regulated a	nduct a proof of concept clinical trial	
Clinical Trial (Wise)	07/01/13 - 12/31/15	0.36 cal months (3%)

Pearl Therapeutics

07/01/13 - 12/31/15 \$154,939

JHU	DOM		Rev.	12/2011
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A Randomized, Double-Blind (Test Products and Placebo), Chronic Dosing (24 Weeks), Placebo-Controlled, Parallel Group, Multi-Center Study to Assess the Efficacy and Safety of PT003, PT005, and PT001 in Subjects with Moderate to Very Severe COPD, Compared with Placebo.

Clinical Trial (Wise) Pearl Therapeutics <u>A 28-Week, Multi-Center, Randomized, Double</u> Evaluate the Safety and Efficacy of PT003, PT0 Spiriva® Handihaler® as an Active Control		
HHSN266200900017C (Hansel) Columbia University/NIH <u>Subpopulations & Intermediate Outcome Measu</u> The aim of this research is to identify subpopula molecular mechanism of disease and identify an useful as intermediate outcome measures in clin	ations of COPD subjects that are and validate indices of disease severations are severated with the severated severa	likely to be similar with respect to the
IH-1304-7118 (Aboumatar) Patient Centered Outcomes Research Institute <u>An Integrative Multilevel Study for Improving I</u> The goal of the study is to conduct a comparative strategies to usual care in order to prevent hospi	e effectiveness study to compare	1.05 cal months (8.73%) patient caregiver and family centered
U01HL088367-01A2 (Wise) NIH Study of Soy Isoflavones in Asthma (SOYA) The SOYA study will investigate if a dietary sur- with poorly controlled asthma. (90039009 / 106412)	09/30/09-06/30/14 \$223,482 pplementation with soy isoflavon	0.90 cal months (7.5%) tes is an effective treatment in patients
U01HL089510-01A2 (Wise) NIH Study of Asthma and Nasal Steroid (STAN) The objective of the proposed clinical trial is to asthma. Proposed is a six-month randomized, d poorly controlled asthma and chronic rhinitis/sin (90039010 / 106417)	ouble-blinded, placebo-controlle	
U01 HL105569 (Wise/Biswal)	09/17/10 - 06/30/13	0.90 cal months (7.5%)

NIH

09/1//10 \$798,988

Enhancing Nrf2 by Sulforaphane Treatment in COPD

The goal of this study is to conduct a phase II multi-site clinical trial to provide proof of concept whether the in vitro antioxidant stimulator sulforaphane is also effective in vivo in humans with COPD. Ancillary studies are proposed to explore whether this agent also improves corticosteroid sensitivity and increases bacterial phagocytosis by alveolar macrophages. (90044411/109252)

Boehringer Ingelheim Pharmaceuticals, Inc. <u>Clinical Trial of Tiotropium-bromide</u> A randomized, active-controlled, double-blind, double- efficacy and safety of 2.5 mcg and 5 mcg Tiotropium I Tiotropium inhalation capsules 18mcg delivered by the (90043248 / 108799)	nhalation Solution delivered by the	he Respimat Inhaler with
P50HL084945 (Wise) NIH <u>SCCOR: Mechanisms and Treatment of COPD Progre</u> The overall goal of this SCCOR program is to understa progression of COPD and to translate that understandin Project 2: Leader, 1.80 calendar months (<i>IO: 9003157</i>) CORE A: Leader, 0.60 calendar months (<i>IO: 9003157</i>)	and the complex interplay of mechang into treatments that can benefit 2 / 101667)	
P50HL107169 (Wise/Biswal) NIH <u>Developing Nrf2 as a target for treatment of corticoster</u> The goal of this study is to determine the efficacy and a subjects with COPD to overcome resistance to corticos (90046054 / 110253)	mechanisms of Nrf2 activation in	1.44 cal months (12%) a animal models and human
P50 HL107190 (Neptune) NIH <u>TGFβ Modulation: Therapeutic Targeting for COPD-E</u> The goal of this proposal is to use a combination of ani compartmental effects of TGFβ signaling in COPD and TGFβ treatments for CS-induced emphysema and 3) do therapeutic biomarkers for COPD. (90046424 / 110518)	imal models and patient material d mouse models, 2) explore the effective	fficacy of novel <u>targeted</u> anti
U01HL108730 (Holbrook) NIH <u>Effect of Positive Airway Pressure on Reducing Airwa</u> The goal of this study is to conduct a phase II clinical t reactivity in individuals with asthma. (90047251/110919)		hma
R34HL117349 (Kirk) NIH <u>Using mHealth to Respond Early to Acute Exacerbation</u> This is a project to evaluate system-based protocols to infection and injection drug use.		0.60 cal months (5%) of COPD in patients with HIV

06/01/2010 - 05/31/2013

JHU DOM | Rev. 12/2011

0.12 cal months (1%)

Wise, Robert A	- Curriculum	Vitae
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BI Trial #205.452 (Wise)

EDUCATIONAL ACTIVITIES

Educational Publications

Teaching

Classroom Instruction

1981-2009	Pulmonary Pathophysiology, Lecturer, Discussion Group Leader
1987- 1993	Pulmonary Pathophysiology - Course Director
1987- Present	Topics in Internal Medicine - Coordinator, Pulmonary Section
1987-1993	Exercise Physiology and Disability Evaluations Johns Hopkins School of Hygiene and Public Health -
Occupati	onal Lung Disease
1987-1991	Johns Hopkins School of Hygiene and Public Health Physiology Course
1987- Present	Lecturer, Discussion Group Leader - Pulmonary Physiology
1993-1994	Coordinator - Pulmonary Section - 2nd year Curriculum
1993-2003	Methods in Clinical Research, GTPCI
1994-2004	Occupational Medicine Course
2010-	Physiology, Lung Mechanics
2010-	Genes to Society, Pulmonary Section Discussion groups, lecturer

Clinical Instruction

1990-Present	Longcope Firm Attending Physician
1981-1998	Clinical Physiology Rotation (Coordinator)
1993-2005	Director, Pulmonary Fellowship Training Program
2005-2023	Director, Pulmonary T32 Research Training Grant

Mentoring (post-doctoral):

Trainee	Year	Research Topic	Initial / Current Position
Paul Schneider	1981	Scleroderma Lung Disease	
Roy Brower, M.D.	1982-1984	Cardio-pulmonary interactions	Professor of Medicine, Johns Hopkins
Mark Peters-Golden, M.D.	1982-1983	Scleroderma Lung Disease	Professor of Medicine, University of Michigan
Mark J. Hausknecht, M.D.	1983-1984	Cardio-pulmonary interactions	Interventional Cardiology Practice, Baylor
		Cardiopulmonary resuscitation	University, Methodist Hospital, Houston, TX
Maroun Karam, M.D.	1983-84	Cardio-pulmonary interactions	Associate Professor, Radiology, Albany Medical
			College
Thomas E. Scott, M.D.	1985-1986	Raynaud's phenomenon	Rheumatology Private Practice, Kansas City, MO.
David Prince, M.D.	1983-1984	Lung function in BM Transplant	Practice, Bryn Mawr, PA
MaryAnn Putman, M.D.	1984	Myasthenia Gravis and Pulmonary Function	Private Practice, Lowell, MA
Walter Ettinger, M.D.	1984-1985	The lung in connective tissue diseases	Associate Professor of Geriatrics, Wake Forest
-			University
Ian Gleadhill, M.D.	1986	Amiodarone-induced lung disease.	Consultant, Belfast City Hospital, Queen's
		-	University
Henry Fessler, M.D.	1985-1987	Cardio-pulmonary interactions	Professor of Medicine, Johns Hopkins, Assistant
-			Dean for Medical Education
Cynthia Rand, Ph.D.	1985-1986	Chronic Obstructive Lung Disease Early	Professor of Medicine, Johns Hopkins, Associate
-		Intervention	Dean of Faculty Development
Raymond Malamet, M.D.	1985-86	Raynaud's phenomenon	Practice of Rheumatology, Hagerstown, MD
Sandralee Blosser, M.D., Ph.D.	1988-1990	Rheumatoid Lung Disease	Professor of Medicine, Penn State
Gregory Diette, M.D., M.H.S.	1994-1998	Outcomes and quality improvement in	Professor of Medicine, Johns Hopkins
		bronchoscopy / K23 mentor	· •
Charles Fuenning M.D.	1984-1987	Cardiopulmonary interactions	Practice, Akron, Ohio
Eric Greidinger, M.D.	1997-1998	Scleroderma Lung Disease	Professor of Medicine, Univ of Miami
Branko Kesler, M.D.	1997-2001	Rheumatoid Lung Disease	Private Practice, Lowell, MA
Naresh Punjabi, M.D., Ph.D.	1995-1999	Pulmonary function Testing	Professor of Medicine, Johns Hopkins
Betty Chang, M.D., Ph.D.	1998-2001	Scleroderma Lung Disease, Thesis Advisor	Professor of Medicine, University of New Mexico /
			Associate Deane Graduate Med Education
Laura Herpel, M.D.	2003-2007	COPD and Sleep Disorders	Asst professor, MUSC / Private Practice

Cynthia Brown, M.D.	2004-2007	COPD	Professor, Univ Indiana
Meredith McCormack, M.D., MPH	2005-2008	Asthma, COPD	Assoc Prof, Johns Hopkins
Michael B. Drummond, M.D.	2004-2012	COPD, K23 Mentor	Assoc Prof, U North Carolina
Emmanuelle Clerisme-Beatty, MD	2005-2011	Asthma, K23 Mentor	Research Director, BIPI
Cristine Berry, MD MHS	2007-2011	COPD	Assistant Prof, Univ of Arizona / Banner Health
Christian Bime MD, MPH	2009-2012	Asthma	Assistant Prof., Univ of Arizona
Jessica Nguyen MD	2010-2012	Asthma, Allergy	Medical Staff, FDA / Private Practice
Niru Putcha, MD, MHS	2010-2014	COPD, K23 Mentor	Assoc. Prof, Johns Hopkins University
Allison Lambert, MD, MHS	2011-2015	COPD, KL2 Mentor	Instructor, U. Wash, Tacoma
Aparna Balabsubramian	2017-2022	COPD	Assistant Prof. Johns Hopkins University

Educational Program Building/Leadership

1988-1997	Associate Director	Division of Pulmonary and Critical Care Medicine, Johns
	Hopki	ns Medical Inst.
1997-1998	Interim Director	Division of Pulmonary and Critical Care Medicine, The Johns
	Hopki	ns Medical Institutions
2014-2018	Associate Director	Division of Pulmonary and Critical Care Medicine, Johns
	Hopki	ns Medical Inst.
1993-2005	Director	Pulmonary Fellowship Training Program
2005-2023	Director	Pulmonary T32 Research Training Grant

Educational Extramural Funding (current, pending, previous)

CLINICAL ACTIVITIES

Certification

Medical licensure: Maryland 1977 – present (License # - D20775)

Boards, other specialty certification

American Board of Internal Medicine, 1976 Subspecialty, Pulmonary Medicine, 1980

Clinical Service Responsibilities

Johns Hopkins Hospital
Johns Hopkins Bayview Medical Center
Johns Hopkins Bayview Medical Center
Johns Hopkins Hospital
Johns Hopkins Hospital
Johns Hopkins Bayview Medical Center
Johns Hopkins Hospital
Johns Hopkins Bayview Medical Center

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

2000- Director, American Lung Association Airways Clinic Research Centers, Data Coordinating Center

- 2010- Physician Champion, COPD Clinical Council, Johns Hopkins Bayview Medical Center
- 2019- Co-Director COPD Precision Medicine Center of Excellence
- 2021- Co-Director Obstructive Lung Disease Clinic, Johns Hopkins Asthma & Allergy Center

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

1981-2005	Director, Pulmonary Function Laboratory, Johns Hopkins Hospital, Baltimore, MD
1981 -	Director, Pulmonary Function Laboratory, Johns Hopkins Bayview Medical Center, Baltimore, MD
1993 - 2005	Director Pulmonary and Critical Care Fellowship Training Program
2005 - 2023	Director, Institutional Training Program in Pulmonary Diseases (Institutional National Research
	Service Award T32)

Editorial Activities

Associate Editor	1985-1991	Yearbook of Respiratory Disease
Editorial Board	1994-1998	Respiratory Medicine
Editorial Board	2013-	COPD, Journal of the COPD Foundation
Author / Editor	2012-	Merck Manual, COPD chapter

Guest Reviewer

American Review of Respiratory Disease American Journal of Physiology Archives of Internal Medicine Chest Circulation Research Journal of Applied Physiology Journal of Clinical Investigation New England Journal of Medicine Journal of Allergy and Clinical Immunology American Journal of Respiratory and Critical Care Medicine Respiratory Medicine Clinical Trials American Journal of Epidemiology Journal of Allergy and Clinical Immunology

Advisory committees

	110/15	or y committees
	39-1993	American Lung Association of Maryland - Grants and Awards Committee
199	91-1993	American Heart Association - Executive Committee, Cardiopulmonary Council
198	36, 1992	National Standards Conference on CPR, ATS Representative
199	92	American Medical Association, Guidelines for Disability and Impairment (Respiratory System)
199	93-1995	American Thoracic Society - Proficiency Standards Committee for Pulmonary Function
		Laboratories
200	00-2001	Executive Committee, Maryland Thoracic Society
200	00-2002	American Thoracic Society Pulmonary Function Proficiency Standards Committee
		Advisory Group
200)1-2004	Steering Committee, ACCP, Pulmonary Physiology, Function and Rehabilitation Network
200)2-2004	Medical Advisory Board, Scleroderma Foundation
200)5-	Medical Advisory Board, Scleroderma Foundation of Washington D.C.
200)4-	Medical Advisory Board, National Emphysema and COPD Association (NECA)
200)4-2007	Johns Hopkins University School of Medicine Committee on Conflict of Interest
200)4-	Johns Hopkins University Advisory Committee on Continuing Medical Education
200	04-2006	American Thoracic Society Spirometry Task Force
200	07-2008	Alpha-1 Foundation Epidemiology and Research Registry Lung Group
200	07-2011	Alpha-1 Foundation Research Registry Advisory Committee
200	07-2009	ATS Proficiency Standards Committee for Pulmonary Function Laboratories
201	0-	ATS Document Development and Implementation Committee

2010-	Medical Co-chair, Maryland COPD Coalition
2010-2012	ATS Documents Development and Implementation Committee
2010-	American Lung Association Scientific Advisory Committee
2012-	Medical Scientific Advisory Steering Committee, COPD Foundation
2012-	ATS Clinical Problems Assembly Nominating Committee
2013-	Co-Chair, Medical and Scientific Advisory Committee, COPD Foundation
2014-15	ATS, Drug and Device Development and Discovery Committee
2015-22	Chair, COPD Foundation Medical and Scientific Advisory Committee
2015 -23	Board of Directors, Executive Committee, COPD Foundation
2023-	Board of Directors Emeritus, COPD Foundation
2023-	Research and Medical Advisory Panel, Global Allergy and Airways Patient Platform

Federal advisory committees

1985	NIH-NHLBI	-	Steering Committee "Early Intervention in COPD"
1987	NCHS	-	NHANES Study Pulmonary Function Evaluation Advisory Panel
1988	NIH-NHLBI	-	Lung Health Study, Publications & Presentations Committee
1988	NIH	-	Pulmonary Preventive Academic Award Study Section
1988	HHS-SSA	-	Respiratory Disability Evaluation Advisory Panel, Co-Chairman
1989-1991	NIH-NHLBI	-	Pulmonary Complication of HIV Infection Site Review Committee
1990	NIH	-	Respiratory and Applied Physiology Study Section (Ad Hoc)
1990	NIH	-	Cardiovascular and Renal Study Section (Ad Hoc), Chairman
1991-	NIH-NHLBI	-	Steering Committee, Childhood Asthma Management Program
1991-	NIH-NHLBI	-	Asthma and Pregnancy Expert Panel
1991-	NIH-NHLBI	-	Raynaud's Clinical Trial Steering Committee
1992-	NIH-NHLBI	-	Respiratory and Applied Physiology Study Section (AHR-S2)
1993-97	NIH-NHLBI	-	Clinical Trials Review Group (Standing Member)
1994-	NIH-NHLBI/NICHD	-	Asthma & Pregnancy Clinical Studies Subcommittee
1995-97	NIH-NHLBI	-	Clinical Trials Review Group - Chair
1997	NIH-NHLBI	-	Chair: Special Emphasis Panel - Asthma Clinical Research Network
1998	NIH-NHLBI	-	Study Section - Patient-oriented Research Career Development
		Aw	vard
1998	NIH-NHLBI	-	ACRN Protocol Review Committee
1998	NIA-NHLBI	-	Chair: Workshop on feasibility. Clinical Trials of Retinoic Acid in
		the	Treatment of Emphysema
1999	NIH-NHLBI	-	Chair: Special Emphasis Panel - Patient-oriented Research Career
		De	velopment Award
1999-	NIH-NHLBI	-	Chair: FORTE Trial (Feasibility of Retinoic Acid in Treatment of
		Em	physema)
2000	NIH-NHLBI	-	Chair: Special Emphasis Panel - Patient-Oriented Research Career
		De	velopment Award
2000	NIH	-	Co-chair PULSE Workshop - Cardiopulmonary Resuscitation
2000-03	NIH-NHLBI	-	ACRN Protocol Review Committee
2001-02	NIH-NHLBI	-	Chair, Ancillary Studies in Clinical Trials Review Group
2001	NIH-NHLBI	-	Workshop on Improving Efficiency and Design of Clinical Trials
2001	NIH-NHLBI	-	Workshop on Research Directions in COPD
2002	FDA	-	Advisory Panel Consultant, Pulmonary and Allergy Drug Section
2002	NHLBI	-	Workshop on characterization of COPD
2003	NIH-NHLBI	-	Workshop on Clinical Research Priorities in COPD
2004-	NIH-NHLBI	-	Chair: Lung Tissue Research Consortium
2004	NIH-NHLBI	-	Workshop on Long Term Oxygen Therapy
2004	NIH-NHLBI	-	Review Committee, Mentored Clinical Investigator Awards
2005	NIH-NHLBI	-	Review Committee, Clinical Research Loan Repayment Program
2006	NIH-NHLBI	-	Review Committee, Clinical Research Loan Repayment Program
2006	NIH-NHLBI	-	Review Committee, Mentored Clinical Investigator Awards

2007			Starta in Planning Committee Clinical Process
2006	NIH-NHLBI	-	Strategic Planning Committee – Clinical Research
2006	NIH	-	Review Committee – CTSA Planning Grant Awards
2006-2010	NIH-NHLBI	-	Program Project Parent Review Committee (HLBP)
2008	NIH-NIA	-	Planning Committee, Workshop on Asthma in the Elderly
2009	NIH-NHLBI	-	Co-chair, Physiology Section, Asthma Clinical Outcomes Workshop
2009	NIH-NHLBI	-	COPD Research Priorities Workshop
2010	NIH-NHLBI	-	T32 Multidisciplinary Training Program Review Committee
2011	NIH-NHLBI	-	Chair, Translational Program Project Grant Review Committee
2011	NIH-NHLBI	-	Severe Asthma Research Program Coordinating Center Review
2012	NIH-NHLBI	-	Ad Hoc Co-Chair, Program Project Grant Special Emphasis Panel
2012	NIH-NHLBI	-	Review Committee – Translational Program Project Grant
2012	Dept of Defense	-	PRMP Discovery Award Review Committee
2012	NIH-NHLBI	-	Program Project Scientific Review Committee, Ad Hoc, Chair
2013	NIH-NHLBI	-	Program Project Scientific Review Committee, Ad Hoc, Chair
2013-	NIH-NHLBI	-	T32 Institutional Training Program Review Committee
2013	NIH-NHLBI	-	Primary Prevention in Lung Disease Workshop, COPD group
2014	NIH-NHLBI	-	Loan Repayment Program Review Committee
2014	NIH-NHLBI	-	Program Project Scientific Review Committee, Special Emphasis Panel
2015	NIH-NHLBI	-	Loan Repayment Program Review Committee
2015	NIH-NHLBI	-	Program Project Scientific Review Committee, Special Emphasis Panel
2016	NIH-NHLBI	-	Co-Chair, Workshop, Asthma-COPD Overlap Syndrome
2016	NIH-NHLBI	-	Chair, Loan Repayment Program Review Committee
2017	NIH-NHLBI	-	Chair, Loan Repayment Program Review Committee
2018	NIH-NHLBI	-	Chair, Loan Repayment Program Review Committee
2020	NIH-NHLBI	-	Chair, Sepecial Emphasis Panel, Pulmonary Fibrosis Models
2021	NIH-NHLBI	-	Chair, Special Emphasis Panel, R33 Review Committee
2023	NIH-NHLBI	-	Chair, Special Emphasis Panel, K08/K23 Review Committee
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Professional Societies

1976-	American Thoracic Society
1978-	American Medical Association
1980-2013	Cardiopulmonary Council, American Heart Association
1984-1987	American Federation for Clinical Research
1985-	American Physiological Society
1985-	Fellow, American College of Chest Physicians
2011	Europeon Despiratory Society

2011- European Respiratory Society

RECOGNITION

Awards, Honors

1963	Choate Scholar, Dartmouth College
1966	Phi Beta Kappa, Dartmouth College
1969	Mosby Scholarship Award, Dartmouth Medical School
1976	Diplomate, American Board of Internal Medicine
1978-80	Fellow, American Lung Association of Maryland
1979	Parker B. Francis Fellow
1980	E.L. Trudeau Fellow, American Lung Association
1981	Clinical Investigator Award, NIH - NHLBI
2001	George Wills Comstock, M.D. Award - American Lung Association of Maryland.
2007	Tisdale Lecture, University of Vermont
2009	Herbert S. Sweet Lecture, St. Louis University
2009	Sills Family Lectureship, Los Angeles, CA
2010	Distinguished Achievement Award, American Thoracic Society
2012	David M. Levine Mentoring Award, Johns Hopkins University Department of Medicine
2014	Keynote Lecture ICONIC International Conference on COPD, Pune India
2016	Jean Wall Bennett Visiting Professor for COPD Education, Cleveland Clinic
2017	American Lung Association Chairman's Award
2017	ATS Clinical Problems Assembly Sreedhar Nair Lifetime Achievement Award in COPD
2018	Johns Hopkins Women's Task Force Women's Sponsorship Award
2023	Dorney-Koppel Foundation and Robert A. Wise Endowed Professorship
2012-present	Castle & Connolly Top Doctors, Pulmonary Diseases