Chandar Abboy, M.D.
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Summary: Quadruple Board-Certified physician with experience in inpatient and outpatient medicine. Board Certified in Internal Medicine, Pulmonary Medicine, Critical Care Medicine, and Sleep Medicine. Over 10+ years of clinical experience from fellowship.

Board Certifications

Internal Medicine – (Active) – Initially certified in 2005 and re-certified in 2015
Pulmonary Medicine – (Active) – Initially certified 2008 and re-certified in 2018
Critical Care Medicine – (Active) – Initially certified 2009 and re-certified in 2019
Sleep Medicine – (Active) – Initially certified in 2013

Education

Fellowship	Winthrop University Hospital, Mineola, NY Pulmonary/Critical Care July 2006 – June 2009
Residency	The Christ Hospital, Cincinnati, OH Internal Medicine Residency Program July 2002 – June 2005
Medical School	Madras Medical College, India MBBS – August 1995 to March 2001
College/University	University of California, Irvine Bachelor of Science – Biological Sciences Minor in History September 1991-June 1995

Professional Experience

June 2022 to Present	Care Access - Decentralized Clinical Trials Principal Investigator
Jan 2021 to Present	Expert Witness

Apr 2019 to Present	Locum Tenens
	Location: Prisma Health Baptist Parkridge Hospital, Irmo, South Carolina Mcleod Regional Medical Center, Florence, South Carolina Vidant Health, Greenville, North Carolina Cape Fear Valley Hospital, Fayetteville, North Carolina Trident Medical Center, North Charleston, South Carolina Providence Health, Columbia, South Carolina Coliseum Medical Center, Macon, Georgia Piedmont Medical Center, Rock Hill, South Carolina Frye Medical Center, Hickory, North Carolina St. Francis Hospital, Columbus, Georgia Novant Health Presbyterian Medical Center, Charlotte NC AdventHealth Hendersonville, Hendersonville NC
Aug 2009 to Apr 2019	Physician – Upstate Lung and Critical Care Specialists, P.C. Spartanburg, Gaffney, and Pelham in South Carolina (Inpatient and Out-patient practicing pulmonary, sleep medicine and critical care medicine in hospital ICUs.)
July 2005 to June 2006	Tri - State Pulmonary – Cincinnati, OH Worked seeing pulmonary inpatients and outpatients and managing long term acute care patients.

Licensure

Medical License MD 31600 – South Carolina (Active)
Medical License 2011-01582 – North Carolina (Active)
Medical License 85100 - Georgia(Active)
Medical License AFE88857 - California(Active)
Medical License 31936 - West Virginia(Active)

Honors and Recognition

Resident Advisor, Ernest Amory Codman Award in Multiple Organization Category by JCAHO for the Greater Cincinnati Patient Safety ICU Collaborative, Cincinnati, Ohio -2006

Administrative Posts

Chief of Staff, Spartanburg Center for Restorative Care – 2012-2017
Sleep Co-Director, Providence Health Sleep Disorders Center, 2017-2018

Hospice Experience

Medical Director, Agape Hospice – 2012-2018
Medical Director, Providence Care Hospice, 2018-2019

Clinical Research Experience

June 2022 - Present	Principal Investigator for Care Access
Dec 2009 – April 2019	Clinical Investigator, Vitalink Research – Greenville
2008 – 2009	Sub-Investigator, Winthrop University Hospital Clinical Trials, Mineola, NY

CLINICAL RESEARCH STUDIES

ASTHMA/COPD

A Safety and Efficacy Study of Inhaled Fluticasone Propionate/Salmeterol Combination versus Inhaled Fluticasone Propionate in the Treatment of Adolescent and Adult Subjects with Asthma. GlaxoSmithKline, Protocol SASI 15359 (2012-2015).

Phase Il - A 12 week Randomized. Multiple-Dose, Double-Blind, Placebo-Controlled. Parallel Group Study to Evaluate Nebulized Fluticasone Propionate (FP) Dose Response in Adult Subjects with Partly Controlled and Uncontrolled Asthma. Dey Pharma, Inc. Protocol 191-091 (2012 • 2014)

A Phase Ill, Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Lebrikizumab in Patients with Uncontrolled Asthma Who are on Inhaled Corticosteroids and a Second Controller Medication. Genetech, Protocol GB27864 (2012. 2013)

A Randomized, Double-Blind. Placebo Controlled, 3-Way Crossover Incomplete Block Study To Assess The Dose Responsiveness Of Exhaled Nitric Oxide To Advair@ Diskus@ Inhaler in Adult Asthmatic Subjects. MylanlChiltem Protocol MgrOOO-1002 (2012-2013)

A Phase 2, Double-blind, Placebo-controlled. Randomized Study to Evaluate the Safety, Tolerability, and Efficacy of KB003 in Subjects with Asthma Inadequately Controlled by Corticosteroids. KaloBios Phamaceutica!s, Inc. Protocol KB003-04 (2012 — 2013)

Bb.lnd 8464: A Phase lib Study To Investigate The Treatment Sparing Effects Of Aerovant™ (Aer 001 Inhalation Powder In Asthma Patients Not Fully Controlled On Current Therapy)Aerovance, Protocol Pddt2007/Aero 01 Dpi2b (2008-2010)

ACHIEVE, A randomized, double-blind, placebo-controlled. incomplete unbalanced, crossover study to assess the efficacy and safety of three doses of formoterol fumarate in Pressair compared with Perforomist

Inhalation Solution (20 and 40ug open-label) in moderate to severe COPD patients with reversible airway disease. AstraZeneca, Protocol D6571C00002 (2016-2017)

A Randomized, Double-Blind, Placebo-Controlled Evaluation of the Effect of the Combination of Umeclidinium and Vitanterol on Exercise Endurance Time in Subjects with COPD. GlaxoSmithKline, Protocol 201317 (2015-2016)

Randomized. Placebo-Controlled Parallel-Group, Multicenter, Efficacy and Safety Trial of 12 Weeks of Treatment with Nebulized SUN-101 in Patient with COPD: GOLDEN-3 (Glycopyrrolate for Obstructive Lung Disease via Electronic Nebulizer). Sunovion, Protocol SUN101-301 (2015-2016)

A Randomized, Double Blind, Chronic Dosing (24 Weeks), Placebo Controlled, Parallel Group, Multi-Center Study to Assess the Efficacy and Safety of PT003. PT005, and PTOOI in Subjects with Moderate to Very Severe COPD, Compared with Placebo. Pearl Therapeutics, Inc.. Protocol PT003014-01 (2015-2016)

A Phase 3, 12 week, Randomized, Double-Blind Placebo-Controlled Parallel-Group Study of Nebulized TD-4208 in with Chronic Obstructive Pulmonary Disease. Theravance. Protocol TD-4208-0126 (2015-2016)

A Dose-finding Study of batefenterol (GSK961081) via Dry Powder Inhaler in with COPD. GlaxoSmithKline, Protocol 201012 (2015-2016)

A Randomized, Phase 111b. Three-period, Three-treatment, Double-blind, Multi-center, Crossover Study to Evaluate the 24 hour Lung Function Profile in Subjects with Moderate to Very Severe COPD after 4 Weeks of Treatment with PT003, Open Label Spiriva@ Respimat@ Tiotropium Bromide) as an Active Control, and Placebo MDI, Pearl Therapeutics, Inc.. Protocol PT003011 (2015-2016)

A Randomized. Phase 111b, Two period, Two treatment Double-blind, Multi-center, Crossover Study to Evaluate the 24 hour Lung Function Profile in Subjects with Moderate to Very Severe COPD after 4 Weeks of Treatment with PT003 and Placebo MDI. Peari Therapeutics, Inct Protocol PT023012 (2015-2016)

A Phase 111B, 6.Month, Double blind, Double-dummy, Randomized, Parallel-group Multicenter Exacerbation Study of Symbicort@ pMDl 160/4.5 pg x 2 Actuations Twice-daily Compared to Formoterol Turbuhaler 4.5 pg x 2 Inhalations Twice-daily in COPD Patientk AstraZeneca, Protocol D589UC00001 (2014-2016)

A Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety of Long Term Use of Perforomist@(fomoterol fumarate) Inhalation Solution in Subjects with Chronic Obstructive Pulmonary Disease (COPD)V DEY Pharma, Inc., Protocol 201-085 (2012-2016)

A Randomized, Open-Label, Active-Controlled , Parallel-Group, Multicenter. Long-Term Safety Study Trial Of Treatnent With Nebulized Sun-101 In Patients With Copd: Golden-5 (Glycopyrrolate For Obstructive Lung Disease Via Electronic Nebulizer). Sunovion, Protocol Sunl 01-303 (2015-2016)

The Flagship Study: A 12-Week Phase li Study To Evaluate The Efficacy And Safety Of Aqx-1125 Following Exacerbations In Patients With Chronic Obstructive Pulmonary Disease (Copd) By Targeting The Shipl Pathway, Aquinox, Protocol Aqx.1125-202 (20142015)

A 12-week multi-center, randomized, double-blind, placebo controlled study to assess the efficacy and safety of NVA237 in stable COPD patients. Novartis Pharmaceuticals. Protocol CNVA237A2317 (2013-2014)

A Dose-Range Finding Study Of Sun-101 In With Moderate To Severe Copd: Golden 6 (Glycopyrrolate For Obstructive Lung Disease Via Electronic Nebulizer). Sunovion Protocol Sun101-201 (2013-2014)

A 12-week treatment, multi-center. randomized, double blind, parallel-group. placebo and active controlled study to assess the efficacy, safety, and tolerability of QVAI 49 (indacaterol maleate I glycopyrronium bromide) in COPD patients with moderate to severe airflow limitation. Novartis Pharmaceuticals Protocol CQVA149A2337 (2012-2014)

A 12-week treatment, multi-center. randomized, double blind, parallel group, placebo and active controlled study to assess the efficacy, safety, and tolerability of QVA149 (indacaterol mateate / glycopyrronium bromide) in COPD patients with moderate to severe airflow limitation. Novartis Pharmaceuticals Protocol CQVA149A2336 (2012-2014)

A study to compare the addition of umeclidinium bromide (UMEC) to auticasone furoate (FF)/vilanterol (VI), with placebo plus FFNI in with Chronic Obstructive Pulmonary Disease (COPD) - study 2 GlaxoSmithKline Protocol 200110 (2013 - 2014)

A randomized, double-blind, placebo-controlled, parallel group study to determine the effect of 12 weeks treatment of orally inhaled tiotropium + olodaterol fixed dose combination (2.5/5 pg, 515 pg) delivered by the Respimat@ Inhaler, on exercise endurance time during constant work rate cycle ergometry in patients with Chronic Obstructive Pulmonary Disease (COPD) [Torracto™] Boehringer Ingelheim Protocol 1237.15 (2012-2014

COPD

A randomized, double-blind, 5 treatment arms, 4-period, incomplete cross-over study to determine the effect of 6 weeks treatment of orally inhaled tiotropium + olodaterol fixed dose combination (FDC) (2.5 / 5 µg; and 5 / 5 µg) (delivered by the Respimat® Inhaler) compared with

tiotropium (5 µg), olodaterol (5 µg) and placebo (delivered by the Respimat® Inhaler) on lung hyperinflation and exercise endurance time during constant work rate cycle ergometry in patients with Chronic Obstructive Pulmonary Disease (COPD) [MORACTO™ 1] **Boehringer Ingelheim** Protocol 1237.13 (2012-2014)

A randomized, double-blind, parallel group study to assess the efficacy and safety of 52 weeks of once daily treatment of orally inhaled tiotropium + olodaterol fixed dose combination (2.5 µg/5 µg; 5 µg/5 µg) (delivered by the Respimat® Inhaler) compared with the individual components (2.5 µg and 5 µg tiotropium, 5 µg olodaterol) (delivered by the

Respimat® Inhaler) in patients with Chronic Obstructive Pulmonary Disease (COPD) [TOnado™ 2] **Boehringer Ingelheim** Protocol 1237.6 (2011-2013)

A randomized, multi-center, double-blind, double-dummy, parallel group study to evaluate the efficacy and safety of umeclidinium/vilanterol compared with fluticasone propionate/salmeterol over 12 weeks in subjects with COPD. **GlaxoSmithKline** Protocol DB2114951 (2013 – 2013)

Protocol Number and Title: 1222.52 A randomized, double-blind, parallel group study to assess the efficacy and safety of 12 weeks of once daily, orally inhaled, co-administration of olodaterol 5 µg (delivered by the Respimat® Inhaler) and tiotropium 18 µg (delivered by the HandiHaler®) compared to once daily, orally inhaled, co-administration of placebo (delivered by the Respimat® Inhaler) and tiotropium18 µg (delivered by the HandiHaler®) in patients with Chronic Obstructive Pulmonary Disease (COPD) (ANHELTO™1) **Boehringer Ingelheim** Protocol 1222.52 (2012-2013)

A Large Simple Safety Study of Arformoterol Tartrate Inhalation Solution in Subjects with Chronic Obstructive Pulmonary Disease. **Sepracore/ Sunovion** Protocol 091-080 (2010-2013)

A 52-week, Double-Blind, Randomized, Placebo Controlled Parallel Group Study to Evaluate the Effect of Roflumilast 500 µg on Exacerbation Rate in Subjects with Chronic Obstructive Pulmonary Disease (COPD) Treated with a Fixed Dose Combination of Long-Acting Beta Agonist and Inhaled Corticosteroid (LABA/ICS) **Forest Research Institute, Inc.** ROF-MD-07 (2011-2012)

An exercise endurance study to evaluate the effects of treatment of COPD patients with a dual bronchodilator: GSK573719/GW642444 **GlaxoSmithKline** Protocol DB2114417 (2011-2012)

A 24-Week, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of GSK573719/GW642444 Inhalation Powder and the Individual components Delivered Once-Daily Via a Novel Dry Powder Inhaler in Subjects with Chronic Obstructive Pulmonary Disease (COPD). **GlaxoSmithKline** Protocol DB2113361 (2011-2012)

A multicenter trial comparing the efficacy and safety of GSK573719/ GW642444 with GW642444 and with tiotropium over 24 weeks in subjects with COPD **GlaxoSmithKline** Protocol DB2113360 (2011-2012)

A randomized, double blind, placebo controlled, incomplete block, crossover, dose ranging study to evaluate the dose response of GSK573719 administered once or twice daily over 7 days in patients with COPD. **GlaxoSmithKline** Protocol AC4115321 (2011)

An eight-week, multicenter, double-blind, randomized, parallel group study of fluticasone propionate/salmeterol DISKUS combination product (FSC) 250/50 mcg twice daily plus tiotropium 18 mcg daily versus placebo DISKUS twice daily plus tiotropium 18 mcg daily on exercise time and physiological parameters in subjects with Chronic Obstructive Pulmonary Disease (COPD) **GlaxoSmithKline** Protocol ADC113877 (2011)

"A 12-week, Randomized, Multiple-Dose, Double-Blind, Placebo-Controlled, Parallel-Group Trial to Assess the Pharmacodynamic Response of Fluticasone Propionate in Fixed-Dose Combination with Formoterol Fumarate in Subjects with COPD" **DEY** Protocol 191-090 (2010-2011)

A Randomized, Multiple-Dose, Crossover Study Characterizing the Pharmacodynamic Profiles of Formoterol Fumarate Inhalation Solution and Formoterol Dry Powder Inhaler in Subjects with Stable Chronic Obstructive Pulmonary Disease **DEY** Protocol 191-089 (2010)

An eight-week, multicenter, double-blind, randomized, parallel group study of fluticasone propionate/salmeterol DISKUS combination product (FSC) 250/50 mcg twice daily plus tiotropium 18 mcg daily versus placebo DISKUS twice daily plus tiotropium 18 mcg daily on exercise time and physiological parameters in subjects with Chronic Obstructive Pulmonary Disease (COPD) **GlaxoSmithKline** ADC113877 (2010-2011)

A Randomized, Double-Blind, Parallel Group, Multicenter Study of the Effects of Fluticasone Propionate/Salmeterol Combination Product 250/50mcg BID (ADVAIR DISKUS™) in Comparison to Salmeterol 50mcg BID (SEREVENT DISKUS™) on the Rate of Exacerbations of Chronic Obstructive Pulmonary Disease (COPD) Following Hospitalization **GlaxoSmithKline** Protocol ADC113874 (2010)

Validation of a New Shortness of Breath with Daily Activities Questionnaire in patients with Chronic Obstructive Pulmonary Disease GlaxoSmithKline Protocol ASQ112989 (2010)

Randomized, double-blind, double-dummy, placebo-controlled, 4-way cross-over study to determine the 24-hour FEV1-time profiles of orally inhaled BI 1744 CL (5 µg [2 actuations of 2.5 µg] and 10 µg [2 actuations of 5 µg]), administered once daily with the Respimat® Inhaler, and orally inhaled Foradil® (12 µg), administered twice daily with the Aerolizer® Inhaler, after 6 weeks of treatment in patients with Chronic Obstructive Pulmonary Disease (COPD) **Boehringer-Ingelheim** Protocol 1222.24 (2009-2010)

GOUT

A Phase 3 Randomized, Double-Blind, Multicenter, Placebo-Controlled, Combination Study to Evaluate the Efficacy and Safety of Lesinurad and Febuxostat Compared to Febuxostat Alone at Lowering Serum Uric Acid and Resolving Tophi in Subjects with Tophaceous Gout. Ardea Biosciences, Protocol RDEA 594-304 (2013-2014)

HYPERTENSION

A Multicenter, Randomized, Double-blind, Placebo-Controlled, 8-Week Study to Evaluate the Safety and Efficacy of Nebivolol and Valsartan Given as a Fixed-Dose Combination in Patients with Stage 1 or 2 Essential Hypertension. **Forest Research Institute** Protocol NAC-MD-01 (2012 – 2013)

INFLUENZA

A Phase 3 Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Intramuscular Peramivir in Subjects with Uncomplicated Acute Influenza. **BioCryst Pharmaceuticals, Inc.** Protocol BCX1812-311 *(2010)*

PRESENTATIONS AND PUBLICATIONS

"To Scope or Not to Scope": Ventilator-Associated Pneumonia. Pneumonia Trends; Clinical Pulmonary Medicine. 14(4): 240, July 2007, Abboy, Chandar, MD; Spiegler, Peter MD, FCCP, 2007

"Platypnea - Orthodeoxia Syndrome" Case Review with Dr. Sunil Dama, Published in Consultant. 2005