

The logo for Baylor College of Medicine, featuring the text "Baylor College of Medicine" in white serif font on a dark blue square background.

Baylor  
College of  
Medicine

MARGARET M. & ALBERT B. ALKEK

DEPARTMENT OF  
**MEDICINE**

**PULMONARY**  
CRITICAL CARE AND  
SLEEP MEDICINE

# Pulmonary, Critical Care and Sleep Medicine Section Summary Report July 2018

**Rolando E. Rumbaut, MD, PhD**

Interim Section Chief, Pulmonary, Critical Care and Sleep Medicine

Professor of Medicine and Pediatrics

Baylor College of Medicine &

Deputy Associate Chief of Staff for Research

Director, Center for Translational Research on Inflammatory Diseases (CTRID)

Michael E. DeBakey VA Medical Center

## Outline:

1. Overview
2. Faculty
3. Clinical Services:
  - Ben Taub General Hospital (BTGH)
  - Michael E. DeBakey VA Medical Center (MEDVAMC)
  - Baylor Faculty Group Practice
  - Baylor St. Luke's Medical Center (BSLMC)
  - Pavilion for Women (PFW)
4. Education
5. Research
6. Publications
7. 2017-2018 Fellowship Graduates

## 1. Overview

The Pulmonary, Critical Care, and Sleep Medicine Section in the Department of Medicine oversees the clinical, education, and research activities in these three related disciplines at Baylor College of Medicine and its affiliated hospitals. Its 44 full-time faculty members direct these activities at Ben Taub Hospital/Harris County Hospital District, the Michael E. DeBakey VA Medical Center (MEDVAMC), the Baylor Faculty Group Practice, Baylor St. Luke's Medical Center (BSLMC), and the Pavilion for Women (PFW) at Texas Children's Hospital.

## 2. Faculty

(link to faculty website)

<https://www.bcm.edu/departments/medicine/sections-divisions-centers/pulmonary-critical-care-sleep-medicine/faculty>

NON-CLINICIAN RESEARCH FACULTY		
Name	Rank	Primary research area
Aladin Boriek PhD	Professor	Mechanical signal transduction
Mustafa Atik MD	Instructor	Airway diseases
Monica Jeongsoo Hong PhD	Instructor	Lung immunity
CLINICIAN FACULTY (Listed based on primary site of practice)		
Name	Rank	Primary track/area of activity
Ben Taub General Hospital		
Kalpalatha Guntupalli MD	Professor and Service Chief at Ben Taub	Pulmonary, Critical Care Sleep
Philip Alapat MD	Assistant Professor	Pulmonary, Critical Care Sleep
Nicola Hanania MD	Associate Professor	Pulmonary, Critical Care Asthma/COPD
Elizabeth Guy MD	Assistant Professor	Pulmonary, Critical Care Sleep and Tuberculosis
Resmi George NP (Nurse Practitioner)	Clinical instructor	Pulmonary
Dharani Narendra MD	Assistant Professor	Pulmonary, Critical Care and

		Ob Critical Care
Purvesh Patel MD	Assistant Professor	Pulmonary, Critical Care Ultrasound/ECHO ILD
Pralay Sarkar MD	Assistant Professor	Pulmonary, Critical Care Ultrasound/ECHO
<b>Michael E DeBakey VA Medical Center</b>		
Venkata Bandi MD	Professor and Service Chief	Pulmonary, Critical Care Sleep and Interventional
Charlie Lan MD	Associate Professor Associate Chief of Medical Care Line, MEDVAMC	Pulmonary, Critical Care Sleep
Ray Lazarus MD	Assistant Professor	Pulmonary, Critical Care Interventional, Director of Interventional Pulmonary
Steve Bujarski MD	Assistant Professor	Pulmonary, Critical Care
Farrah Kheradmand MD	Professor	Pulmonary, Critical care COPD and Lung Cancer research
Lavannya Pandit MD	Assistant Professor	Pulmonary, Critical Care Pulmonary Hypertension
Rolando Rumbaut MD PhD	Professor Director, Center for Translational Research on Inflammatory Diseases & Deputy Associate Chief of Staff for Research, MEDVAMC	Pulmonary, Critical Care Microvascular research
Amir Sharafkhaneh MD PhD	Professor	Pulmonary, Critical Care Sleep
Supriya Singh MD	Assistant Professor	Pulmonary, Critical care Sleep
Kanta Velamuri MD	Associate Professor	Pulmonary, Critical Care Sleep
Uma Ayyala MD	Assistant Professor Associate Chief of Staff for Education, MEDVAMC	Pulmonary, Critical Care
Shahram Moghtader MD	BCM faculty title in process	Pulmonary, Critical Care Sleep
Ritwik Agrawal MD	Assistant Professor	Pulmonary, Critical Care Sleep

<b>BCM Faculty Group Practice</b>		
Fidaa Shaib MD	Associate Professor Director of the Pulmonary FGP & Director of BSLMC Sleep Center	Pulmonary, Critical Care Sleep
Prasad Manian MD	Professor, Associate Section Chief for Clinical Affairs, Director of the Department of Medicine FGP	Pulmonary, Critical Care Sleep
Ali Jiwani MD	Assistant Professor	Pulmonary, Critical Care Interventional Pulmonology
Gloria Li MD (*also Lung Transplant)	Assistant Professor	Pulmonary, Critical Care Lung Transplant
Jigna Zatakia DO (*also BSLMC MICU)	Assistant Professor	Pulmonary, Critical Care ILD
Dipa Modi MD (*also BSLMC MICU)	Assistant Professor	Pulmonary, Critical Care Pulmonary Rehabilitation
Thomas Monaco MD (*as of Sept 2018, also BSLMC MICU)	Assistant Professor	Pulmonary, Critical Care
N. Tony Eissa MD (*anticipated future part-time FGP practice)	Professor, Associate Section Chief for Research	Pulmonary, Critical Care Immunity & autophagy research
Annise Wilson, MD (*as start August 2018)	Assistant Professor of Neurology, 2yr appointment in Medicine	Sleep Medicine
<b>Cystic Fibrosis</b>		
Tara Barto MD	Assistant Professor Interim Director of Cystic Fibrosis Center	Pulmonary, Critical Care Cystic Fibrosis
<b>Lung Transplant</b>		
Amit Parulekar MD	Associate Professor Medical Director of Lung Transplant Program	Pulmonary, Critical Care Transplant
Goutham Dronavalli MD	Assistant Professor	Pulmonary, Critical Care Transplant
Christina Kao MD	Assistant Professor	Pulmonary, Critical Care Transplant
<b>Baylor St. Luke's Medical Center MICU</b>		
James Herlihy MD	Professor Chief of Critical Care service line, BSLMC	Pulmonary, Critical Care
Muhammad Asim Siddique MD	Assistant Professor ICU, Director of MICU	Pulmonary, Critical Care Sleep

Jairo Barrantes – Perez MD	Assistant Professor	Pulmonary, Critical Care Sleep
Christopher Howard MD	Assistant Professor ICU	Pulmonary, Critical Care
Christopher Morgan MD	Assistant Professor ICU	Pulmonary, Critical Care
DeReddi Reddy MD	Assistant Professor	Internal Medicine, Critical Care
Babith Mankidy MD	Assistant Professor ICU	Pulmonary, Critical Care Sleep, Transplant
Andrea Braun MD	Assistant Professor ICU	Internal Medicine, Nephrology, Critical Care
Ali Omranian MD	Assistant Professor	Internal Medicine Critical Care
<b>Pavilion for Women</b>		
David Muigai MD	Assistant Professor	Internal Medicine, Critical Care; Medical Director of Critical Care Service

### 3. Clinical Services

#### 3a Ben Taub General Hospital:

##### Services Provided:

Pulmonary  
 Critical Care  
 Sleep  
 Critical Care ECHO/Ultrasound service  
 Interventional Pulmonary services  
 Procedures Service to the Internal Medicine service  
 Tuberculosis care to the region  
 Ambulatory care

#### 3b Michael E DeBakey VA Medical Center:

##### Services provided:

Pulmonary Consultations  
 Critical Care  
 Sleep  
 Interventional Pulmonary services  
 Pulmonary Hypertension

Home Oxygen Program  
Step Down Unit

### **3c Baylor Faculty Group Practice and Baylor St. Luke's Medical Center Pulmonary & Sleep Services**

Inpatient and outpatient General Pulmonary  
Cystic fibrosis  
Interventional pulmonary services  
Lung transplantation  
Sleep medicine  
Interstitial lung disease  
Pulmonary hypertension (service in development)

### **3d St. Luke's Medical Center Critical Care Services**

Medical Intensive Care Unit  
Mobile intensive Care Unit  
Coronary Care Unit  
Cardiovascular Intensive Care Unit

### **3e Pavilion for Women**

Obstetrics/Critical Care Unit  
Pulmonary Consultation

## **4. Education**

- 4a Pulmonary and Critical Care Fellowship (3-year combined program):** ACGME approved  
Program Director: Amit Parulekar, MD  
Associate Program Directors: Uma Ayyala MD, Stephen Bujarski MD, Christina Kao MD,  
Pralay Sarkar MD

#### **Current fellows (2018-2019)**

<b>Name</b>	<b>Medical School</b>	<b>Residency</b>
Sara Assaf, MD	American University of Beirut Faculty of Medicine	Saint Louis University
Ali Cheema, MD	University of Oklahoma College of Medicine	Baylor College of Medicine

Jose Cuevas, MD	Unverisdad Autonoma, Mexico	Texas Tech Health Science Center
Sunjay Devarajan, MD	Texas A&M Health Science Center College of Medicine	Georgetown University Hospital
Adriel Fajilan, MD	Loma Linda University School of Medicine	Harbor UCLA Medical Center
Amy Heibel, MD	Texas A&M Health Science Center	Ochsner Clinic Foundation
Megan Hughes, MD	University of Texas School of Medicine at San Antonio	LSU Health Science Center Shreveport
Katie Jeans, MD	Louisiana State University School of Medicine in New Orleans	Baylor College of Medicine
Gilboa Lombardi, MD	Technischen Universität München Fakultät für Medizin	Vanderbilt University
Ninad Maniar, MD	Seth G.S. Medical College	University of Louisville
Robbie Maxson, MD	Eastern Virginia Medical School	Temple University Hospital
Katie Moeller, DO	Lake Erie College of Osteopathic Medicine	Drexel University of College of Medicine
Todd Schlossman, MD	American University of the Caribbean	West Virginia University
Justin Segraves, MD	New York Medical College	Mayo Clinic
Omar Shweish MD	Istanbul University	St. Elizabeth's Medical Center

- 4b Critical Care Fellowship (1-2 years):** ACGME approved  
Program Director: Kalpalatha Guntupalli MD  
Associate Program Directors: Raja Reddy, MD, Andrea Braun, MD

**Current fellows (2018-2019)**

<b>Name</b>	<b>Medical School</b>	<b>Residency</b>
Badr Alsaleh, MD	King Abdulaziz University, SAU	Ochsner Clinic Foundation
Bria Giacomino, DO	Arizona College of Osteopathic Medicine of Midwestern University	University of Iowa
Megan Gooch, MD	Commonwealth Medical College	Cooper University Hospital
Goutham Gudavalli, MD	Kakatiya Medical College	LSU Health Science Center Lafayette



Simran Matta, MD	Maharashtra Inst. of Medical Education & Research (MIMER)	University of Nevada
Sri Kartik Valluri, MD	Bhaskar Medical College	University of Miami

- 4c Sleep Fellowship:** ACGME approved  
Program Director: Phil Alapat MD  
Associate Program Director: Supriya Singh, MD

**Current fellows (2018-2019)**

Name	Medical School	Residency
Myrtle Jeroudi MD	UT Southwestern	UT Southwestern
Skantha Manjunath MD	Osmania Medical College	University of Tennessee
Jen Molina MD	University of Santo Thomas	University of Illinois College of Medicine
Jose Moonjely MD	St. John's Medical College	Western Reserve Health

- 4d National Institutes of Health T-32 Training Grant on Lung Diseases:**  
Program Director: Tony Eissa, MD  
Positions: 4  
Status: Active (no section clinical fellows currently enrolled)

- 4e Transplant Fellowship:** (Texas Board Approved)  
Director: Amit Parulekar, MD  
Positions: 1-2  
Status: INACTIVE

- 4f Interventional Pulmonary Fellowship** (Texas Board Approved)  
Director (anticipated): D. Ray Lazarus, MD  
Position: 1  
Status: INACTIVE, PENDING INITIATION

**Weekly Fellowship Noon Conferences**

Tuesday	Wednesday	Friday
Core curriculum, journal club	Research conference; St. Luke's Pulmonary Grand Rounds;	X Ray Case conference; Quality improvement conference

	Critical Care case conference	
--	-------------------------------	--

**Site-specific conferences (not mentioned above)**

<b>BTGH</b>	<b>MEDVAMC</b>	<b>BSLMC / FGP</b>	<b>PFW</b>
Tumor Board CC Board review CC Journal club	Tumor Board; Weekly Case Conference Patient-Centered Clinical Research; CTRID seminar series	Tumor Board (BSLMC) Sleep Medicine Board Review (FGP)	ICU topic review; Multidisciplinary case conference

## 5. Research

**5a. Grants and Contracts Awarded: 07/01/2017 - 06/30/2018**

**MEDICINE: PULMONARY**

	<b>NIH</b>	<b>Other Federal</b>	<b>Non-Federal</b>	<b>Cash</b>	<b>Total</b>
<b>MEDICINE: PULMONARY</b>	\$523,567.00	\$365,350.00	\$271,078.00	\$270,099.90	\$1,430,094.90
<b>TOTALS</b>	<b>\$523,567.00</b>	<b>\$365,350.00</b>	<b>\$271,078.00</b>	<b>\$270,099.90</b>	<b>\$1,430,094.90</b>

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Grant Number</u>	<u>Project Title</u>	<u>Budget Period</u>	<b>DIRECT</b>	<b>INDIRECT</b>	<b>Total</b>
KHERADMAND ,FARRAH (MPI)	NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES (NIAID)	1R01AI13 5803-01	FUNGAL PATHOGENESIS OF MODERATE TO SEVERE ASTHMA	03/23/18-02/28/23	\$357,458	\$198,494	\$555,952
KHERADMAND ,FARRAH	MICHAEL E DEBAKEY VA MEDICAL CENTER	2I01CX00 0104-09	INNATE AND ACQUIRED IMMUNE RESPONSES IN HUMAN COPD	07/1/17-6/30/18	\$150,000	\$0	\$150,000

RUMBAUT, ROLANDO	MICHAEL E DEBAKEY VA MEDICAL CENTER	5I01BX00 2551-03	PLATELETS AND MICROVASCULAR THROMBOSIS IN INFLAMMATION	04/01/18-03/31/19	\$150,000	\$0	\$150,000
EISSA, TONY	ALPHA ONE FOUNDATION	501272	LYSOSOMAL ORIGIN FOR EMPHYSEMA	7/1/17 - 6/30/18	\$100,000	\$0.00	\$100,000
PARULEKAR, AMIT D.	AMERICAN LUNG ASSOCIATION	CG-415676 - Year 2	YR 2: THE IMPACT OF FUNGAL SENSITIZATION AND AIRWAY FUNGAL MICROBIOME ON ASTHMA SEVERITY	7/1/17 - 6/30/18	\$40,000.00	\$0.00	\$40,000
HANANIA, NICOLA ALEXANDER	AMERICAN LUNG ASSOCIATION	Year 2	AIRWAYS CLINICAL RESEARCH CENTERS (ACRC)	7/1/17 - 6/30/18	\$100,000	\$0.00	\$100,000
KHERADMAND ,FARRAH	DEPARTMENT OF DEFENSE CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH-16-1-0361 YR 2	YR 1: PR140593P1: ENHANCEMENT OF IMMUNE MEMORY RESPONSES TO RESPIRATORY INFECTION	8/1/17 - 7/31/18	\$231,944	\$133,406	\$365,350
EISSA, TONY	NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI)	T32-HL007747 -22	YR 22: RESEARCH TRAINING IN LUNG DISEASE	7/1/17 - 6/30/18	\$421,890	\$27,351	\$449,241
BORIEK, ALADIN M	NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI)	R25-HL108853 -07	YEAR 7 - RPPR (MPI) : SHORT TERM TRAINING TO INCREASE DIVERSITY	4/1/2018 - 3/31/2019	\$68,820	\$5,506	\$74,326
RUMBAUT, ROLANDO	NATIONAL INSTITUTES OF HEALTH (NIH)	R01-HL116524 -05 NCE	(MPI): NCE PLATELETS AND THEIR MICROPARTICLES IN THE INFLAMED MICROCIRCULATION	2/1/2018 - 1/31/2019	\$0.00	\$0.00	\$0.00
HANANIA, NICOLA ALEXANDER	THE CHEST FOUNDATION	DS RH 2013 YR 3 NCE	NCE TO 6/30/2018 "SPIROMETRY TOOLKIT" TO IMPROVE KNOWLEDGE AND APPROPRIATE USE OF SPIROMETRY IN THE PRIMARY CARE SETTING	4/1/2018 - 6/30/2018	\$0.00	\$0.00	\$0.00

# Cash Awards

<u>Principal Investigator</u>	<u>Sponsor</u>	<u>Project Title</u>	<u>Fiscal Year</u>	<u>Direct</u>	<u>Indirect</u>	<u>Total</u>
HANANIA, NICOLA ALEXANDER	AMERICAN LUNG ASSOCIATION	"LOSARTAN EFFECTS ON EMPHYSEMA PROGRESSION TRIAL" (LEEP) TRIAL	2018	\$2,165	\$0.00	\$2,165
GUNTUPALLI, KALPALATHA K	BOEHRINGER INGELHEIM LTD	IDIOPATHIC PULMONARY FIBROSIS PROSPECTIVE OUTCOMES REGISTRY (IPF-PRO)	2018	\$2,500	\$0.00	\$2,500
HANANIA, NICOLA ALEXANDER	BOEHRINGER INGELHEIM PHARMACEUTICAL, INC	OBSERVATIONAL STUDY IN HEALTHY SUBJECTS AND PATIENTS WITH COPD TO ASSESS THE RELATIONSHIP BETWEEN CLINICAL, IMAGING AND BIOMARKER MEASUREMENTS, AND PROGRESSION OF EMPHYSEMA OVER TWO YEARS.	2018	\$41,012.26	\$10,632.81	\$51,645.07
BARTO, TARA LYNN	CORBUS PHARMACEUTICALS	JBT101-CF-001: A PHASE 2, DOUBLE-BLIND, RANDOMIZED, PLACEBO-CONTROLLED MULTICENTER STUDY TO EVALUATE SAFETY, TOLERABILITY, EFFICACY, AND PHARMACOKINETICS OF JBT-101 IN CYSTIC FIBROSIS	2018	\$1,385.08	\$178.70	\$1,563.78

HANANIA, NICOLA ALEXANDER	F. HOFFMANN-LA ROCHE LTD	A PHASE II, RANDOMIZED, DOUBLE-BLIND, PLACEBO- CONTROLLED STUDY TO ASSESS THE EFFICACY AND SAFETY OF LEBRIKIZUMAB IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND A HISTORY OF EXACERBATIONS	2018	\$4,566.90	\$627.86	\$5,194.76
HANANIA, NICOLA ALEXANDER	GENENTECH, INC.	A PROSPECTIVE, SINGLE ARM, LONGITUDINAL COHORT STUDY TO ASSESS BIOMARKERS IN REAL WORLD PATIENTS WITH SEVERE ASTHMA	2018	\$17,703.90	\$4,589.90	\$22,293.80
HANANIA, NICOLA ALEXANDER	GLAXO/SMITHKLINE	A RANDOMIZED, DOUBLE-BLIND, SPONSOR OPEN, PLACEBO- CONTROLLED, 52 WEEK STUDY EVALUATION THE EFFECT OF DANIRIXIN (GSK1325756) ON LUNG FUNCTION AND HEALTH RELATED QUALITY OF LIFE IN PARTICIPANTS WITH MILD TO MODERATE CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)	2018	\$11,402.07	\$2,956.10	\$14,358.17

HANANIA, NICOLA ALEXANDER	GLAXO/SMITHKLINE	A PHASE III, RANDOMIZED, DOUBLE-BLIND, ACTIVE CONTROLLED, PARALLEL GROUP STUDY, COMPARING THE EFFICACY, SAFETY AND TOLERABILITY OF THE FIXED DOSE COMBINATION FF/UMEC/VI WITH THE FIXED DOSE DUAL COMBINATION OF FF/VI, ADMINISTERED ONCE-DAILY VIA A DRY POWDER INHALER IN SUBJECTS WITH INADEQUATELY CONTROLLED ASTHMA	2018	(\$2,500.00)	(\$648.15)	(\$3,148.15)
HANANIA, NICOLA ALEXANDER	NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI)	YR 3: NETWORK MANAGEMENT CORE (NEMO) FOR THE PULMONARY TRIALS COOPERATIVE (PTC) (RETHINC)	2018	\$1,000.00	\$0.00	\$1,000.00
HANANIA, NICOLA ALEXANDER	NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI)	YR 2: NETWORK MANAGEMENT CORE (NEMO) FOR THE PULMONARY TRIALS COOPERATIVE (PTC) / INSIGHT: PULMONARY TRIALS COOPERATIVE'S (PTC) INTERVENTION STUDY IN OVERWEIGHT PATIENTS WITH COPD (INSIGHT COPD) TRIAL	2018	\$1,000.00	\$173.33	\$1,173.33

HANANIA, NICOLA ALEXANDER	NATIONAL INSTITUTES OF HEALTH (NIH)	AMENDMENT - THE GENETICS EPIDEMIOLOGY OF COPD	2018	\$17,643.50	\$6,369.69	\$24,013.19
HANANIA, NICOLA ALEXANDER	NIH: NATIONAL INSTITUTES OF HEALTH	YR 3: NETWORK MANAGEMENT CORE (NEMO) FOR THE PULMONARY TRIALS COOPERATIVE (PTC) (INSIGHT)	2018	\$1,000.00	\$173.33	\$1,173.33
LAZARUS, DONALD	Olympus/Spiration (EMPROVE)	Spiration Pivotal II Trial (EMPROVE)	2018	\$12,596.24	\$0	\$12,596.24
PANDIT, LAVANNYA	UNITED THERAPEUTICS	A Randomized, Placebo-Controlled Study of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease Protocol Number: #RIN-PH- 201	2017- 2020	\$125,000	\$0	\$125,000

## 6. Publications

1. **Kheradmand F**, You R, Hee Gu B, Corry DB. Cigarette Smoke and DNA Cleavage Promote Lung Inflammation and Emphysema. *Trans Am Clin Climatol Assoc.* 2017;128:222-33. PubMed PMID: 28790504; PMCID: PMC5525399
2. Wang DH, Lee HS, Yoon D, Berry G, Wheeler TM, Sugarbaker DJ, **Kheradmand F**, Engleman E, Burt BM. Progression of EGFR-Mutant Lung Adenocarcinoma is Driven By Alveolar Macrophages. *Clin Cancer Res.* 2017;23(3):778-88. doi: 10.1158/1078-0432.CCR-15-2597. PubMed PMID: 27496865
3. Maryam Iman, Ramazan Rezaei, Sadegh Azimzadeh, Parvin Shariati, **Farrah Kheradmand**, Jafar Salimian. Th17/Treg Immunoregulation and Implications in Treatment of Sulfur Mustard Gas Induced Lung Diseases. *Expert Review of Clinical Immunology.* 2017 Vol 13; 12: 1173-1188.
4. Liang, D; Tian, L, You, R; Halpert, M; Konduri, V; Baig, Y.; Paust, S; Kim, D; Kim, S, Jia, F; Huang, S; Zhang, X; **Kheradmand, F**; Corry, D; Gilbert, B; Levitt, J; Decker, W. AIMP1 Potentiates TH1 Polarization and Is Critical for Effective Antitumor and Antiviral Immunity. *Front Immunol.* 2017 Vol 8; 1801.
5. Kryshna Ayyagari, William P Mulmoy, AW Bracey, Cesar Castillo, **James P Herlihy** Perioperative Management of LVAD Patients. In *Mechanical Circulatory Support for the Treatment of Advanced Heart Failure.* Editor, Morgan, Jeff. Publisher: Springer Scientific, Dec 2017
6. Lockyer P, Mao H, Fan Q, Li L, Yu-Lee LY, **Eissa NT**, Patterson C, Xie L, Pi X. LRP1-dependent BMPER signaling regulates lipopolysaccharide-induced vascular inflammation. *Arterioscler Thromb Vasc Biol.* 37:1524-1535, 2017.
7. Sha Y, Rao L, Settembre C, Ballabio A, **Eissa NT**. STUB1 regulates TFEB-induced autophagy-lysosome pathway, *EMBO J*, 36: 2544–2552, 2017.
8. Khan A, Mann L, Papanna R, Lyu MA, Singh CR, Olson S, **Eissa NT**, Cirillo J, Das G, Hunter RL, Jagannath C. Mesenchymal stem cells internalize Mycobacterium tuberculosis through scavenger receptors and restrict bacterial growth through autophagy. *Sci Rep*, Nov 8;7(1):15010. doi: 10.1038/s41598-017-15290-z, 2017.
9. Yao C, Veleza T, Scott L Jr, Cao S, Li L, Chen G, Jeyabal P, Pan X, Alsina KM, Abu Taha I, Ghezelbash S, Reynolds CL, Shen YH, LeMaire SA, Schmitz W, Müller FU, El Armouche A, **Eissa NT**, Beeton C, Nattel S, Wehrens XHT, Dobrev D, Li N. Enhance Cardiomyocyte NLRP3 Inflammasome Signaling Promotes Atrial Fibrillation. *Circulation.* 2018 May 25. pii: 118.035202. [Epub ahead of print].
10. Kurihara C, Kawabori M, Ono M, Hussain ST, **Parulekar AD**, Morgan JA, Loo G. Lung procurement after cardiac death in a donor with previous median sternotomy. *Ann Thorac Surg.* 2017 Nov;104(5):e371-e373. PMID: 29054231
11. **Parulekar AD, Kao CC**, Diamant Z, **Hanania NA**. Targeting the IL-4 and IL-13 pathway in severe asthma: current knowledge and future needs. *Curr Opin Pulm Med.* 2017 Oct 13 [epub ahead of print]. PMID: 29036019
12. Loo G, Simpson L, **Parulekar A**. Bridging to Lung Transplantation with Extracorporeal Circulatory Support: When or When Not? *J Thorac Dis* 2017;9(9):3352-3361.
13. **Medrek S, Parulekar AD, Hanania NA**. Predictive Biomarkers for Asthma. *Current Allergy Asthma Rep.* 2017 Sep 19;17(10):69. PMID: 28929293.



14. Hoang V, **Medrek SK**, Pendurthi M, **Kao CC**, **Parulekar AD**. Improving Donor Lung Management and Recipient Selection in Lung Transplantation. *Am J Respir Crit Care Med*. 2017 Sep 15;196 (6):782-784. PMID: 28608711.
15. Hoang V, **Li GW**, **Kao CC**, **Dronavalli G**, **Parulekar AD**. Change in skeletal muscle following lung transplantation is related to underlying disease. *Clin Transplant*. 2017 Mar;31(3). PMID: 28017627.
16. **Medrek SK**, **Kao CC**, Yang DH, **Hanania NA**, **Parulekar AD**. Fungal sensitization is associated with increased risk of life-threatening asthma. *J Allergy Clin Immunol Pract*. 2017 Jul - Aug;5(4):10251031
17. **Bujarski S**, **Parulekar A**, **Hanania N**. "Asthma, COPD, and asthma-COPD overlap in special populations." In: Bernstein JA, Boulet LP, Wechsler ME eds. *Asthma, COPD, and the Overlap: A CasedBased Overview of Similarities and Differences*. 1st ed. CRC Press; 2018: 135-144.
18. Cardenas EI, Breaux K, Da Q, Flores JR, Ramos MA, Tuvim MJ, Burns AR, **Rumbaut RE**, Adachi R. Platelet Munc13-4 regulates hemostasis, thrombosis and airway inflammation. *Haematologica*. 2018 Apr 19. pii: haemtol.2017.185637. doi: 10.3324/haematol.2017.185637. [Epub ahead of print]
19. Da Q, Derry PJ, Lam FW, **Rumbaut RE**. Fluorescent labeling of endogenous platelets for intravital microscopy: Effects on platelet function. *Microcirculation*. 2018 Apr 27:e12457. doi: 10.1111/ micc.12457. [Epub ahead of print]
20. Solaiman SS, **Agrawal R** Non-24-Hour SleepWake Circadian Rhythm Disorder in a Sighted Male With Normal Functioning. *J Clin Sleep Med*. 2018 Mar 15;14(3):483-484. doi: 10.5664/jcsm.7008.
21. **Agrawal R**, Wang JA, Ko AG, Getsy JE A realworld comparison of apnea-hypopnea indices of positive airway pressure device and polysomnography. *PLoS One*. 2017;12 (4):e0174458. doi: 10.1371 journal.pone.0174458.
22. Hemodynamic and Pathologic Characterization of the TASK-1/- Mouse Does Not Demonstrate Pulmonary Hypertension. Kitagawa MG, Reynolds JO, Wehrens XHT, Bryan RM Jr, **Pandit LM**. *Front Med (Lausanne)*. 2017 Oct 23;4:177.
23. Admission for COPD Exacerbation Is Associated with the Clinical Diagnosis of Pulmonary Hypertension: Results from a Retrospective Longitudinal Study of a Veteran Population. **Medrek SK**, **Sharafkhaneh A**, Spiegelman AM, Kak A, **Pandit LM**. *COPD*. 2017 Oct;14(5):484-489.
24. Falce K, **Guy E**, Hyman D, **Hotze T**, **Lazarus D**, **Bandi V**, Parchem J, Davidson C, Munnur U. Bronchoscopic resection of a tracheobronchial leiomyoma in a pregnant patient. *Int J Obstet Anesth*. 2018; April 10 doi: 10.1016/j.ijoa.2018.04.002. PMID 29764714 [Epub ahead of print]
25. You R, DeMayo FJ, Liu J, Cho SN, Burt BM, Creighton CJ, Casal RF, **Lazarus DR**, Lu W, Tung HY, Yuan X, Hill AA, Kim M, Perusich S, Cornwell LD, Rosen D, Song LZ, Paust S, Diehl GE, Corry DB, **Kheradmand F**. IL17A regulates tumor latency and metastasis in lung adeno and squamous SQ.2b and AD.1 cancer. *Cancer Immunol Res*. 2018; Apr 13 doi 10.1158/2326-6066. CIR-17-0554. PMID 29653981 [Epub ahead of print]
26. Miller RJ, Casal RF, **Lazarus DR**. Ost DE, Eapen GA. Flexible bronchoscopy. *Clin Chest Med*. 2018; 1 (1): 1-16
27. **Lazarus DR**, Casal RF. Persistent air leaks: a review with an emphasis on bronchoscopic management. *J Thorac Dis*. 2017; 9 (11): 46604670.

- 28. Medrek SK, Lazarus DR, Zarrin-Khameh N, Mohyuddin N, Bandi V.** Obstructive posttracheotomy granulation tissue. *Am J Respir Crit Care Med.* 2017; 196 (5): e12-e13.
- 29. Medrek SK, Kular HS, Lazarus DR, Bujarski S, Patel K, Bandi V.** Use of sclerotherapy for the treatment of massive hemoptysis due to a bleeding bronchial varix. *Ann Am Thorac Soc.* 2017; 14 (7): 1221-1223.
- 30. Mudambi L, Lazarus DR, Eapen GA.** Endobronchial ultrasound: clinical applications. In: Diaz-Jimenez JP, Rodriguez AN eds. *Interventions in Pulmonary Medicine.* 2nd ed. New York: Springer-Verlag; 2018: 403419.
- 31. Lazarus DR, Casal RF.** Flexible bronchoscopy. In: Musani AI, Dutau H eds. *Advances in Interventional Pulmonology.* 1st ed. Book series: *Frontiers in Respiratory Medicine Volume 1.* Sharjah, UAE: Bentham Science Publishers; 2017: 1-19.
- 32.** Official ERS/ATS clinical practice guidelines: noninvasive ventilation for acute respiratory failure Bram Rochweg 1 , Laurent Brochard<sup>2,3</sup>, Mark W. Elliott<sup>4</sup> , Dean Hess<sup>5</sup> , Nicholas S. Hill<sup>6</sup> , Stefano Nava<sup>7</sup> and Paolo Navalesi<sup>8</sup> (members of the steering committee); Massimo Antonelli<sup>9</sup> , Jan Brozek<sup>1</sup> , Giorgio Conti<sup>9</sup> , Miquel Ferrer<sup>10</sup>, **Kalpalatha Guntupalli**<sup>11</sup>, Samir Jaber<sup>12</sup>, Sean Keenan<sup>13,14</sup>, Jordi Mancebo<sup>15</sup>, Sangeeta Mehta<sup>16</sup> and Suhail Raoof<sup>17,18</sup> (members of the task force) *Eur Respir J* 2017; 50: 1602426 *J Altern Complement Med.* 2017 Jul 17. doi: 10.1089/acm.2017.0102. [Epub ahead of print]
- 33.** Effect of Yoga Breathing (Pranayama) on Exercise Tolerance in Patients with Chronic Obstructive Pulmonary Disease: A Randomized, Controlled Trial. Kaminsky DA<sup>1,2</sup>, **Guntupalli KK**<sup>3</sup>, Lippmann J<sup>2</sup>, Burns SM<sup>2</sup>, Brock MA<sup>3</sup>, Skelly J<sup>4</sup>, DeSarno M<sup>4</sup>, Pecott-Grimm H<sup>2</sup>, Mohsin A<sup>3</sup>, LaRockMcMahon C<sup>2</sup>, Warren P<sup>5</sup>, Whitney MC<sup>6</sup>, **Hanania NA**<sup>3</sup>.
- 34.** Update in Pulmonary Medicine Evidence published in 2016 **Christopher Howard, MD; Kalpalatha Guntupalli, MD** *Ann Intern Med* 2017;166: W40W43
- 35. Parulekar AD, Martinez C, Tsai C, Locantore N, Atik MA, Yohannes AM, Kao CC, AlAzzawi H, Mohsin A, Wise RA, Foreman M, Demeo D, Regan EA, Make BJ, Boriek AM, Wiener E, Hanania NA.** Examining the effects of age on health outcomes of COPD: results from the COPD Gene and ECLIPSE Cohorts. *J Am Med Dir Assoc.* 2017 Dec 1;18 (12):1063- 1068. PMID: 29169736
- 36.** Tanner MR, Tajhya RB, Huq R, Gehrmann EJ, Rodarte KE, **Atik MA**, Norton RS, Pennington MW, Beeton C. Prolonged immunomodulation in inflammatory arthritis using the selective Kv1.3 channel blocker HsTX1[R14A] and its PEGylated analog. *Clinical Immunology* 180 (2017) 45–57
- 37. Hanania NA, Braman S, Adams SG, et al.** The role of inhalation delivery devices in COPD: Perspectives of patients and health care providers. *Chronic Obstr Pulm Dis.* 2018; 5(2): 111-123.
- 38.** Braman SS, Carlin BW, **Hanania NA**, Mahler DA, Ohar JA, Pinto-Plata V, Shah T, Eubanks D, Dhand R. Results of a Pulmonologist Survey Regarding Knowledge and Practices With Inhalation Devices for COPD. *Respir Care.* 2018 May 1. pii: respcare.05717. doi:10.4187 respcare.05717. [Epub ahead of print]
- 39.** Dhand R, Mahler DA, Carlin B, **Hanania N**, Ohar J, Pinto-Plata V, Shah T, Eubanks D, Braman SS. Results of a Patient Survey Regarding COPD Knowledge, Treatment Experiences, and Practices With Inhalation Devices. *Respir Care.* 2018 Mar 20. pii: respcare.05715. doi: 10.4187/ respcare.05715. [Epub ahead of print]

40. Cazzola M, Calzetta L, Matera MG, **Hanania NA**, Rogliani P. How does race/ethnicity influence pharmacological response to asthma therapies? *Expert Opin Drug Metab Toxicol*. 2018 Apr;14 (4):435-446
41. Yohannes AM, Kaplan A, **Hanania NA**. Anxiety and Depression in Chronic Obstructive Pulmonary Disease: Recognition and Management. *Cleve Clin J Med*. 2018 Feb;85(2 Suppl 1):S11-S18.
42. Yohannes AM, Kaplan A, **Hanania NA**. COPD in Primary Care: Key Considerations for Optimized Management: Anxiety and Depression in Chronic Obstructive Pulmonary Disease: Recognition and Management. *J Fam Pract*. 2018 Feb;67(2 Suppl):S11-S18.
43. Donohue JF, Bollu VK, Stull DE, Nelson LM, Williams VS, Stensland MD, **Hanania NA**. Long-term health-related quality-of-life and symptom response profiles with arformoterol in COPD: results from a 52-week trial. *Int J Chron Obstruct Pulmon Dis*. 2018 Feb 5;13:499-508
44. Braddock M, **Hanania NA**, **Sharafkhaneh A**, Colice G, Carlsson M. Potential Risks Related to Modulating Interleukin-13 and Interleukin-4 Signaling: A Systematic Review. *Drug Saf*. 2018 May;41 (5):489-509.
45. **Hanania NA**, Massanari M, Jain N. Measurement of fractional exhaled nitric oxide in real-world clinical practice alters asthma treatment decisions. *Ann Allergy Asthma Immunol*. 2018 Apr;120 (4):414-418.
46. Bousquet J, Brusselle G, Buhl R, Busse WW, Cruz AA, Djukanovic R, Domingo C, **Hanania NA**, Humbert M, Menzies Gow A, Phipatanakul W, Wahn U, Wechsler ME. Care pathways for the selection of a biologic in severe asthma. *Eur Respir J*. 2017 Dec 7;50(6). pii: 1701782.
47. Goto T, Faridi MK, Gibo K, Toh S, **Hanania NA**, Camargo CA Jr, Hasegawa K. Trends in 30-day readmission rates after COPD hospitalization, 2006-2012. *Respir Med*. 2017 Sep;130:92-97.
48. **Narendra DK**, **Hanania NA**. Procalcitonin in Chronic Obstructive Pulmonary Disease Exacerbations: Is It Ready for Primetime Use? *Ann Am Thorac Soc*. 2017 Dec;14(12):1757-1758.
49. Humbert M, Busse W, **Hanania NA**. Controversies and opportunities in severe asthma. *Curr Opin Pulm Med*. 2018 Jan;24(1):83-93.
50. **Hanania NA**, Diamant Z. The road to precision medicine in asthma: challenges and opportunities. *Curr Opin Pulm Med*. 2018 Jan;24(1):1-3
51. **Parulekar AD**, **Kao CC**, Diamant Z, **Hanania NA**. Targeting the interleukin-4 and interleukin-13 pathways in severe asthma: current knowledge and future needs. *Curr Opin Pulm Med*. 2018 Jan;24 (1):50-55
52. 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; 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*. 2018 Mar - Apr;6(2):633-643.
53. Sethi S, Fogarty C, **Hanania NA**, et al. Efficacy of formoterol fumarate delivered by metered dose inhaler using Co-suspension™ delivery technology versus Foradil® aerolizer® in moderate-to-severe COPD: a randomized, dose-ranging study. *Chronic Obstr Pulm Dis*. 2017; 4(1): 2133.
54. **Sharafkhaneh A**, Yohannes AM, **Hanania NA**, Kunik ME eds. *Depression and Anxiety in Patients with Chronic Respiratory Diseases*. Springer 2017

- 55. Yohannes AM, Hanania NA.** "Depression and Anxiety in Adults Patients with Asthma" In : **Sharafkhaneh A.** Yohannes AM, **Hanania NA,** Kunik ME eds. Depression and Anxiety in Patients with Chronic Respiratory Diseases. Springer 2017: 73-84
- 56. Bujarski S, Parulekar A, Hanania NA.** "Asthma, COPD, and asthma-COPD overlap in special populations." In: Bernstein JA, Boulet LP, Wechsler ME eds. Asthma, COPD, and the Overlap: A Cased- Based Overview of Similarities and Differences. 1st ed. CRC Press; 2018: 135-144.
- 57. Narendra A, Hanania NA.** "Severe Acute Asthma". In Saade GR, Belfort MA, Dildy GA, Phelan JP, Foley MR eds. Critical Care Obstetrics, 6th Edition. Wiley-Blackwell, September 2018
- 58. "Sacred Pause" in the ICU: Evaluation of a Ritual and Intervention to Lower Distress and Burnout. Sumit Kapoor, MD, FCCP, Christopher K. Morgan, MD, Muhammad Asim Siddique, MD, Kalpalatha K. Guntupalli, MD, FCCM, Master FCCP, MACP.**
- 59. Lung diseases in the modern era, Chapter 10 published in 'The Sub specialty care of HIVinfected patients' online book, Helina Wakwaya, MD, Dharani Narendra, MD, Elizabeth Guy, MD, published February 2018**
- 60. Update in management of severe hypoxemic respiratory failure. Published in the CHEST journal, Narendra DK, Hess Dr, Sessler CN, Belete HM, Guntupalli KK, Khusid F, Carpati CM, Astiz ME, Raoof S. 2017 Oct. ;152(4):867879. doi: 10.1016/j.chest.2017.06.039. Epub 2017 Jul 14.**

## 7. 2017-2018 Fellowship Graduates



### Pulmonary & Critical Care Medicine

Dr. Tim Hotze  
Dr. Helina Wakwaya  
Dr. John Blixt  
Dr. Thomas Monaco  
Dr. Harman Kular



### Critical Care Medicine

Dr. Jonathan Suarez  
Dr. Prakruthi Voore



### Sleep Medicine

Dr. David Adejorin  
Dr. Xuesong Chen  
Dr. Sonal Malhotra  
Dr. Goutham Gudavalli  
Dr. Joe Ochoa