

## **2022 Pulmonary/Critical Care Scholarly Activity**

### **Publications**

Pleasants PA, Chan AH, Mosnaim G, Costello RW, **Dhand R**, Schworer SA, Merchant R, Tilley SL. Integrating digital inhalers into clinical care of patients with asthma and chronic obstructive pulmonary disease. *Respir Med.* 2022 Dec;205:107038. doi: 10.1016/j.rmed.2022.107038. Epub 2022 Nov 7. PMID: 36446239

Zhou CY, Sahay S, Shlobin O, **Soto F**, Mathai S, Melendres-Groves L, Mullin CJ, Levine DJ, Kay D, Highland K, Bossone E, Poms A, Memon H, Balasubramanian V, Farmer MJS, Rahaghi F, Elwing JM. Effects of COVID-19 pandemic on the management of pulmonary hypertension. *Respir Med.* 2023 Jan;206:107061. doi: 10.1016/j.rmed.2022.107061. Epub 2022 Nov 26. PMID: 36493604

Olanipekun T, Abe T, Effoe V, Chris-Olaiya A, **Biney I**, Guru P, Ritchie C, Sanghavi D. Utilization trends and outcomes of catheter-directed thrombolysis for pulmonary embolism in the US by race/ethnicity. *J Thromb Thrombolysis.* 2022 Nov;54(4):675-685. doi: 10.1007/s11239-022-02710-9. Epub 2022 Oct 11. PMID: 36219337

**Bhagat M, Singh A, Bazzi T, Green J.** Bronchorrhea: a Rare and Debilitating Symptom of Lung Cancer: Case Report and Review of the Treatment. *JTO Clinical and Research Reports.* 2022 Oct;3(10) <https://doi.org/10.1016/j.jtocrr.2022.100398>

Fogelson B, Qu D, **Bhagat M, Branca PR.** Multi-organ system failure secondary to difluoroethane toxicity in a patient "huffing" air duster: a case report. *J Addict Dis.* 2022 Oct-Dec;40(4):577-582. doi: 10.1080/10550887.2022.2027207. Epub 2022 Jan 19. PMID:35044291

**Soto FJ, Biney IN,** Akhtar Y, McKeown PP, **Turner JF.** Abnormal Cardiac Ultrasound Imaging in a Patient With Sudden Neurologic Deficit. *Chest.* 2022 Sep;162(3):e145-e148. doi: 10.1016/j.chest.2021.09.043

Li J, Alolaiwat A, Fink JB, **Dhand R.** Aerosol-Generating Procedures and Virus Transmission. *Respir Care.* 2022 Aug;67(8):1022-1042. doi: 10.4187/respcare.10160. Epub 2022 Apr 6. PMID: 35387846

Li J, Alolaiwat A, Fink JB, **Dhand R.** A Narrative Review on Aerosol Generating Procedures and Virus Transmission. *Respiratory Care.* 2022 Apr 6: respcare.10160. doi: 10.4187/respcare.10160

Swanson CS, **Dhand R,** Cao L, Ferris J, Elder CS, He Q. Microbiome Profiles of Nebulizers in Hospital Use. *J Aerosol Med Pulm Drug Deliv.* 2022 Aug;35(4):212-222. doi: 10.1089/jamp.2021.0032. Epub 2022 Feb 25. PMID: 35230145

Vijayan K, Karakattu SM, Bansal A, **Thomas A**, Alazzeah A, El Minaoui W, Maisonet M. Immediate complications and flow volume changes during treatment phases of bronchial thermoplasty: a single-center descriptive study. *J Asthma*. 2022 Jul;59(7):1433-1437. doi: 10.1080/02770903.2021.1924775. Epub 2021 May 18. PMID: 33947298.

Harnois LJ, Alolaiwat AA, Jing G, Fink JB, **Dhand R**, Li J. Efficacy of Various Mitigation Devices in Reducing Fugitive Emissions from Nebulizers. *Respir Care*. 2022 Apr;67(4):394-403. doi: 10.4187/respcare.09546. Epub 2021 Nov 9.

Li J, Alolaiwat A, Harnois L, Fink JB, **Dhand R**. Mitigating Fugitive Aerosols During Aerosol Delivery via High-Flow Nasal Cannula Devices. *Respir Care*. 2022 Apr;67(4):404-414. doi: 10.4187/respcare.09589. Epub 2021 Nov 17. PMID: 34789564

**Sahay S**, Balasubramanian V, Memon H, Poms A, Bossone E, Highland K, Kay D, Levine DJ, Mullin CJ, Melendres-Groves L, Mathai SC, **Soto FJ**, Shlobin O, Elwing JM. Utilization of risk assessment tools in management of PAH: A PAH provider survey. *Pulm Circ*. 2022 Apr 8;12(2):e12057. doi: 10.1002/pul2.12057. eCollection 2022 Apr

Swanson CS, **Dhand R**, Cao L, Ferris J, Elder CS, He Q. Microbiome-based source identification of microbial contamination in nebulizers used by inpatients. *J Hosp Infect*. 2022 Apr;122:157-161. doi: 10.1016/j.jhin.2022.01.008. Epub 2022 Jan 23.

Zarogoulidis P, Kosmidis CS, Hohenforst-Schmidt W, Matthaïos D, Sapalidis K, Petridis D, Perdikouri EI, Courcoutsakis N, Hatzibougias D, Arnaoutoglou C, Freitag L, Ioannidis A, Huang H, Tolis C, Bai C, **Turner JF**. Radial-EBUS: CryoBiopsy Versus Conventional Biopsy: Time-Sample and C-Arm. *Int J Environ Res Public Health*. 2022 Mar 17;19(6):3569. doi: 10.3390/ijerph19063569

Fogelson B, Qu D, **Bhagat M**, **Branca PR**. Multi-organ system failure secondary to difluoroethane toxicity in a patient "huffing" air duster: a case report. *J Addict Dis*. 2022 Jan 19:1-6. doi: 10.1080/10550887.2022.2027207. Epub ahead of print. PMID: 35044291

Ohar JA, Ferguson GT, Mahler DA, Drummond MB, **Dhand R**, Pleasants RA, Anzueto A, Halpin DMG, Price DB, Drescher GS, Hoy HM, Haughney J, Hess MW, Usmani OS. Measuring Peak Inspiratory Flow in Patients with Chronic Obstructive Pulmonary Disease. *Int J Chron Obstruct Pulmon Dis*. 2022 Jan 6;17:79-92. doi: 10.2147/COPD.S319511. PMID: 35023914; PMCID: PMC8747625

**Dhand R**. Inhaled Tobramycin for Treatment of Ventilator-Associated Pneumonia: The Interplay of Patient, Drug, and Device. *Respiratory Care* January 2022, 67 (1) 151-153; <https://doi.org/10.4187/respcare.09852>

Gutierrez A, Gerbo M, Treat S, **Sharma N**, Jordan S, **Dudney T**. A New Meaning to Chest Tightness: Tension Pneumomediastinum and Bedside Mediastinotomy In SARS- CoV-2. *Critical Care Medicine: January 2022 – Volume 50 - Issue 1 - p 131*. doi: 10.1097/01.ccm.0000807484.94614.ad

## Presentations

**Dudney T.** Obstructive Sleep Apnea: Who needs tested and benefits of treatment. Presented at Heart, Lung, Vascular Update for Primary Care Providers: Knoxville, TN November 5, 2022

**Dudney T, Gardner K, Josan E.** Panel Discussion. Presented at Heart, Lung, Vascular Update for Primary Care Providers: Knoxville, TN November 5, 2022

**Josan E. COPD:** Inhaler and More. Presented at Heart, Lung, Vascular Update for Primary Care Providers: Knoxville, TN November 5, 2022

**Gardner K.** First Line and Advanced Treatment. Presented at Heart, Lung, Vascular Update for Primary Care Providers: Knoxville, TN November 5, 2022

**Josan E.** Novel Aids in the Diagnosis of Lung Cancer: Rules and Robots. Moderator at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Josan E.** The Cardiac Intensivist I. Moderator at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Dudney T, Josan E.** Everything You Need to Know to be a Chief Fellow. Panelist at 2022 CHEST Annual Meeting; Nashville, TN. October 17-19, 2022

**Soto FJ.** Right Heart Catheterization in Pulmonary Hypertension: Interpretation, Troubleshooting & Pitfalls. Presented at 2022 CHEST Annual Meeting: Nashville, TN. October 17-19, 2022

**Thomas A, Dalabah R.** Rare Presentation Of Thymoma At An Infrequent Location. Presented at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Thomas A, Dalabah R.** A Case Of Metastatic Synovial Sarcoma. Presented at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Treat S, Venero C, Goodwin E, Barton B, Soto F.** Tricuspid Valve Endocarditis History and Acute Hypoxemic Respiratory Failure: POCUS, Bubbles, and More. Presented at (National) CHEST 2022: Nashville, TN October 17-19, 2022

Gutierrez A, Alexander W, **Treat S**, Purkey J. A Reminder of the Immunosuppression Conferred by Prolonged Hyperglycemia: A Case of Nocardia Farcinica Pneumonia. Presented at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Bhagat M, Urbina E, Bevill B, Soto F.** A Giant Left Atrium Causing Extrinsic Compression of the Left Lower Lobe in a Patient with Pulmonary Hypertension and

Mitral Valve Disease. Presented at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Sharma N, McCormack M, Bhagat M.** Crossing the Rubicon: Subdiaphragmatic abscess fistulizing into the lung. Presented at (National) CHEST 2022: Nashville, TN October 17-19, 2022

**Bhagat M. Case Presentations.** Presented at John W. Whittington MD Endowed Lecture: Lung Cancer: Knoxville, TN September 30, 2022

**Fuerst N. Case Presentations.** Presented at John W. Whittington MD Endowed Lecture: Lung Cancer: Knoxville, TN September 30, 2022

**Bevill B.** Endobronchial Staging for Lung Cancer and Robotic Bronchoscopy. Presented at John W. Whittington MD Endowed Lecture: Lung Cancer: Knoxville, TN September 30, 2022

**Branca P.** Update on Endobronchial Therapies for Central Airway Obstruction. Presented at John W. Whittington MD Endowed Lecture: Lung Cancer: Knoxville, TN September 30, 2022

**Bhagat M, Wong F, Branca P.** A Rare Asthma Impostor: An atypical case of granular cell tumor in a young patient causing endobronchial obstruction. Presented at 2022 AABIP Annual Conference: Nashville, TN August 13, 2022

Faradji D, Ferris J, **Dhand R.** Determining the Most Discriminatory Perceived Activity and Weakness Score (PAWS) for Predicting Muscle Weakness and Adverse Outcomes in Hospitalized Patients. Presented at American Thoracic Society 2022 International Conference: San Francisco, CA May 13-17, 2022

Faradji D, Valdes M, Ferris J, Kumar G, **Dhand R.** Perceived Activity and Weakness Score (PAWS): A Subjective Screening Tool for Patient's Ability to Use Dry Powder Inhalers? Presented at American Thoracic Society International Conference: San Francisco, CA May 13-17, 2022.

Forsyth C, Treat S, Kumar G, Biney I, Ferris J, Heidel E, Terry P, **Dhand R.** Optimizing Corticosteroid Dosing for Acute Exacerbations of Chronic Obstructive Pulmonary Disease: Association with Hospital Readmission. American Thoracic Society International Conference San Francisco, CA May 13-17, 2022

Treat S, Forsyth C, Kumar G, **Biney I,** Ferris J, Heidel E, Terry P, **Dhand R.** Antibiotic Usage in Patients Experiencing Readmissions for Acute Exacerbations of Chronic Obstructive Pulmonary Disease. Presented at American Thoracic Society 2022 International Conference: San Francisco, CA May 13-17, 2022

Shali L, Terry P, Kumar G, Worth H, Ferris J, Norwood D, Heidel E, Price C, **Dhand R**. Associations Among Social Determinants of Health and Quality of Life in Rural Appalachia. American Thoracic Society International Conference: San Francisco, CA May 13-18, 2022

**Fuerst N**, Lim T, **Dudney TM**, **Sharma N**. A Real Gut Wrencher: Massive Bowel Infarction and Hepatic Portal Venous Gas Related to Methamphetamine Use. Presented at American Thoracic Society 2022 International Conference: San Francisco, CA May 13-17, 2022

**Bhagat M**, **Sharma N**, **Dudney TM**, **Dhand R**, Gardner K. An Unexpected Encounter: Primary Ewing Sarcoma of the Lung. Presented at American Thoracic Society 2022 International Conference: San Francisco, CA May 13-17, 2022

**Bhagat M**, **Sharma N**, **Dudney TM**, **Dhand R**, **Bevill B**, **Branca P**, **McCormack M**, Heidel R, **Green J**, **Soto F**. Use of Inhaled Epoprostenol delivered by High Flow Nasal Cannula in patients with severe hypoxemic respiratory failure secondary to COVID-19. Presented at American Thoracic Society 2022 International Conference: San Francisco, CA May 13-17, 2022

Branca R, **Branca P**. Depression, Anxiety, and Somatization Among Critical Care Professionals During the COVID Pandemic. Presented at 2022 Critical Care Congress: (Virtual) April 19, 2022

Branca R, **Branca P**. Effect of Perception of Star in Time Course of the Pandemic on the Emotional Health of ICU Workers. Presented at 2022 Critical Care Medicine: (Virtual) April 18, 2022

Branca R, **Branca P**. Impact of Social Support and Age on Emotional Health in ICU Professionals During the COVID Pandemic. Presented at 2022 Critical Care Medicine: (Virtual) April 18, 2022

Gutierrez A, Gerbo M, Treat S, **Sharma N**, Jordan S, **Dudney T**. A New Meaning to Chest Tightness: Tension Pneumomediastinum and Bedside Mediastinotomy in SARS-CoV-2. Presented at Society of Critical Care Medicine 51<sup>st</sup> Annual Critical Care Conference: (Virtual) April 18, 2022

**Dudney T**, Mendola A, Rowe J. Conventional Contingency, and Crisis Standards of Care in COVID-19: Theory to Reality. Presented at Reimagining Preparedness in the Era of COVID-19: Atlanta, GA April 6, 2022