

# Pulmonary and Critical Care Medicine Fellowship Faculty Publications

## 2022

Ortiz-Reyes L, Patel JJ, Jiang X, Coz Yataco A, Day AG, Shah F, Zelten J, Tamae-Kakazu M, Rice T, Heyland DK. Early versus delayed enteral nutrition in mechanically ventilated patients with circulatory shock: a nested cohort analysis of an international multicenter, pragmatic clinical trial. *Crit Care*. 2022 Jun 9;26(1):173. doi: 10.1186/s13054-022-04047-4. PMID: 35681220; PMCID: PMC9185884.

Munroe E, Claar D, Tamae-Kakazu M, Tatem G, Blamoun J, McSparron JI, Prescott HC. Hospital Policies on Intravenous Vasopressor Administration and Monitoring: A Survey of Michigan Hospitals. *Ann Am Thorac Soc*. 2022 May 24. doi: 10.1513/AnnalsATS.202203-197RL. Epub ahead of print. PMID: 35608405.

Cumbo-Nacheli, G., Colt, H., Agrawal, A., Cicensia, J., Corbetta, L., Goel, A. D., Goga, A., Lee, H. J., Murgu, S., Pannu, J., Senitko, M., Tarantini, F., Vujacich, P., Williamson, J., Yap, E., & Lentz, R. J. Bronchoscopy in patients with known or suspected covid-19: Results from the global pandemic sars-cov-2 bronchoscopy database (GPS-bd). *Journal of Bronchology and Interventional Pulmonology*. <https://doi.org/10.1097/LBR.0000000000000805>

## 2021

Liban Sigua N, **Tamae Kakazu M**. What Is Central Sleep Apnea in Adults? *Am J Respir Crit Care Med*. 2021 Apr 1;203(7):P18-P19. doi: 10.1164/rccm.2037P18. PMID: 33792532.

Chami HA, Diaz-Mendoza J, Chua A, Duggal A, Jenkins AR, Knight SL, Patolia S, **Tamae-Kakazu M**, Raghu G, Wilson KC. Transbronchial Biopsy and Cryobiopsy in the Diagnosis of Hypersensitivity Pneumonitis among Patients with Interstitial Lung Disease. *Ann Am Thorac Soc*. 2021 Jan;18(1):148-161.

Jenkins AR, Chua A, Chami H, Diaz-Mendoza J, Duggal A, Knight S, Patolia S, **Tamae-Kakazu M**, Raghu G, Wilson KC. Questionnaires or Serum Immunoglobulin G Testing in the Diagnosis of Hypersensitivity Pneumonitis among Patients with Interstitial Lung Disease. *Ann Am Thorac Soc*. 2021 Jan;18(1):130-147.

Rello J, Belliato M, Dimopoulos MA, Giamarellos-Bourboulis EJ, Jaksic V, Martin-Loeches I, Mporas I, Pelosi P, Poulakou G, Pournaras S, **Tamae-Kakazu M**, Timsit JF, Waterer G, Tejada S, Dimopoulos G. Update in COVID-19 in the intensive care unit from the 2020 HELLENIC Athens International symposium. *Anaesth Crit Care Pain Med*. 2020 Dec;39(6):723-730.

Bai C, Chotirmall SH, Rello J, Alba GA, Ginns LC, Krishnan JA, Rogers R, Bendstrup E, Burgel PR, Chalmers JD, Chua A, Crothers KA, Duggal A, Kim YW, Laffey JG, Luna CM, Niederman MS, Raghu G, Ramirez JA, Riera J, Roca O, **Tamae-Kakazu M**, Torres A, Watkins RR, Barrecheguren M, Belliato M, Chami HA, Chen R, Cortes-Puentes GA, Delacruz C, Hayes MM, Heunks LMA, Holets SR, Hough CL, Jagpal S, Jeon K, Johkoh T, Lee MM, Liebler J, McElvaney GN, Moskowitz A, Oeckler RA, Ojanguren I, O'Regan A, Pletz MW, Rhee CK, Schultz MJ, Storti E,

Strange C, Thomson CC, Torriani FJ, Wang X, Wuyts W, Xu T, Yang D, Zhang Z, Wilson KC. Updated guidance on the management of COVID-19: from an American Thoracic Society/European Respiratory Society coordinated International Task Force (29 July 2020). *Eur Respir Rev.* 2020 Oct 5;29(157):200287.

Raghu G, Remy-Jardin M, Ryerson CJ, Myers JL, Kreuter M, Vasakova M, Bargagli E, Chung JH, Collins BF, Bendstrup E, Chami HA, Chua AT, Corte TJ, Dalphin JC, Danoff SK, Diaz-Mendoza J, Duggal A, Egashira R, Ewing T, Gulati M, Inoue Y, Jenkins AR, Johannson KA, Johkoh T, **Tamae-Kakazu M**, Kitaichi M, Knight SL, Koschel D, Lederer DJ, Mageto Y, Maier LA, Matiz C, Morell F, Nicholson AG, Patolia S, Pereira CA, Renzoni EA, Salisbury ML, Selman M, Walsh SLF, Wuyts WA, Wilson KC. Diagnosis of Hypersensitivity Pneumonitis in Adults. An Official ATS/JRS/ALAT Clinical Practice Guideline. *Am J Respir Crit Care Med.* 2020 Aug 1;202(3):e36-e69.

Patolia S, **Tamae Kakazu M**, Chami HA, Chua A, Diaz-Mendoza J, Duggal A, Jenkins AR, Knight SL, Raghu G, Wilson KC. Bronchoalveolar Lavage Lymphocytes in the Diagnosis of Hypersensitivity Pneumonitis among Patients with Interstitial Lung Disease. *Ann Am Thorac Soc.* 2020 Nov;17(11):1455-1467.

**Gustavo Cumbo-Nacheli** 1, Diego Conci 1, James Smith 2. Negative Pressure Aerosol Chamber: A Portable Barrier Device for Bronchoscopy. PMID: 33332849 PMCID: PMC7742215 DOI: 10.1097/LBR.0000000000000695

**Ravi Kanth Velagapudi** 1 & John P. Egan III 2. Thoracic Endometriosis: a Clinical Review and Update of Current and Evolving Diagnostic and Therapeutic Techniques. *Current Pulmonology Reports* (2021) 10:22–29. Accepted: 13 January 2021/ Published online: 9 February 2021. <https://doi.org/10.1007/s13665-021-00269-z>

## 2020

Navarrete R, **Cumbo-Nacheli G**. Usefulness of Pulmonary Artery Catheter in the Evaluation of Alveolopleural Fistulas. *Arch Bronconeumol* 2020 Oct 22;S0300-2896(20)30386-0.

Pritchett M, **Cumbo-Nacheli G**; et al. Society for Advanced Bronchoscopy Consensus Statement and Guidelines for bronchoscopy and airway management amid the COVID-19 pandemic. *J Thorac Dis* 2020. <http://dx.doi.org/10.21037/jtd.2020.04.32>

A Look into the Future of Cone-Beam Computed Tomography Assisted Electromagnetic Navigational Bronchoscopy D. Geriani, G. Cumbo-Nacheli, R. Chhaya; Pulmonary and Critical Care, Spectrum Health, Grand Rapids, MI, United States  
[ajrccm-conference.2020.201.1\\_MeetingAbstracts.A6805\(atsjournals.org\)](http://ajrccm-conference.2020.201.1_MeetingAbstracts.A6805(atsjournals.org))

[Diagnosis of Hypersensitivity Pneumonitis in Adults: An Official ATS/JRS/ALAT Clinical Practice Guideline](#)

Raghu G; Document S; Remy-Jardin M; Ryerson CJ; Myers JL; Kreuter M; Vasakova M; Bargagli E; Chung JH; Collins BF; Bendstrup E; Cham HAI; Chua AT; Corte TJ; Jean- Dalphin C; Danoff SK; Diaz-Mendoza J; Duggal A; Egashira R; Ewing T; Gulati M; Inoue Y; Jenkins AR; Johannson KA; Johkoh T; **Tamae-Kakazu M**; Kitaichi M; Knight SL; Koschel D; Lederer DJ; Mageto Y; Maier LA; Matiz C; Morell F; Nicholson AG; Patolia S; Pereira CA; Renzoni EA; Salisbury ML; Selman M; Walsh SLF; Wuyts WA; Wilson KC. Diagnosis of Hypersensitivity Pneumonitis in Adults: An Official ATS/JRS/ALAT Clinical Practice Guideline [published online ahead of print, 2020 Jul 24]. *Am J Respir Crit Care Med.* 2020;10.1164/rccm.202005-2032ST. doi:10.1164/rccm.202005-2032ST

[The Effect of Hospital Discharge with Empiric Noninvasive Ventilation on Mortality in Hospitalized Patients with Obesity Hypoventilation Syndrome. An Individual Patient Data Meta-Analysis.](#)

Mokhlesi B, Masa JF, Afshar M, Almadana Pacheco V, Berlowitz DJ, Borel JC, Budweiser S, Carrillo A, Castro-Añón O, Ferrer M, Gagnadoux F, Golpe R, Hart N, Howard ME, Murphy PB, Palm A, Perez de Llano LA, Piper AJ, Pépin JL, Priou P, Sánchez-Gómez JF, Soghier I, **Tamae Kakazu M**, Wilson KC. *Ann Am Thorac Soc.* 2020 May;17(5):627-637. doi: 10.1513/AnnalsATS.201912-887OC. *Ann Am Thorac Soc.* 2020.PMID: 32023419

Weight Loss Interventions as Treatment of Obesity Hypoventilation Syndrome. A Systematic Review.

**Kakazu MT**, Soghier I, Afshar M, Brozek JL, Wilson KC, Masa JF, Mokhlesi B. Ann Am Thorac Soc. 2020 Apr;17(4):492-502. doi: 10.1513/AnnalsATS.201907-554OC. Ann Am Thorac Soc. 2020. PMID: 31978317

The Role of Positive Airway Pressure Therapy in Adults with Obesity Hypoventilation Syndrome. A Systematic Review and Meta-Analysis.

Afshar M, Brozek JL, Soghier I, **Kakazu MT**, Wilson KC, Masa JF, Mokhlesi B. Ann Am Thorac Soc. 2020 Mar;17(3):344-360. doi: 10.1513/AnnalsATS.201907-528OC. Ann Am Thorac Soc. 2020. PMID: 31726017

Society for Advanced Bronchoscopy Consensus Statement and Guidelines for bronchoscopy and airway management amid the COVID-19 pandemic

Pritchett MA, Oberg CL, Belanger A, De Cardenas J, Cheng G, **Cumbo Nacheli G**, Franco-Paredes C, Singh J, Toth J, Zgoda M, Folch E. J Thorac Dis 2020. doi: 10.21037/jtd.2020.04.32

Indoor Particulate Matter From Smoker Homes Induces Bacterial Growth, Biofilm Formation, and Impairs Airway Antimicrobial Activity. A Pilot Study.

Stapleton EM, Manges R, Parker G, Stone EA, Peters TM, Blount RJ, Noriega J, **Li X**, Zabner J, Polgreen PM, Chipara O, Herman T, Comellas AP. Front Public Health. 2020 Jan 24;7:418. doi: 10.3389/fpubh.2019.00418. eCollection 2019. PMID: 32039129 **Free PMC article.**

Chhaya Ronak<sup>1\*</sup>, Lam Geoffrey T2, Egan III, John P3 and **Cumbo-Nacheli Gustavo<sup>3</sup>**. The Use of Robotic Bronchoscopy for Visceral Pleural. Marking Prior to Surgical Resection of Pulmonary Nodules Volume 10:4,2020. DOI: 0.4172/2161-105X.10.502

ICU admission body composition: skeletal muscle, bone, and fat effects on mortality and disability at hospital discharge-a prospective, cohort study.

Jaitovich A, Dumas CL, Itty R, Chieng HC, **Khan MMHS**, Naqvi A, Fantauzzi J, Hall JB, Feustel PJ, Judson MA. Crit Care. 2020 Sep 21;24(1):566. doi: 10.1186/s13054-020-03276-9. PMID: 32958059

## 2019

Chhaya R, Egan J, **Cumbo-Nacheli G**. Metastatic pulmonary angiosarcoma presenting with diffuse alveolar hemorrhage: a rare complication of a rare disease. Chest 2019. 156:4, A269. doi.org/10.1016/j.chest.2019.08.325

Evaluation and Management of Obesity Hypoventilation Syndrome. An Official American Thoracic Society Clinical Practice Guideline.

Mokhlesi B, Masa JF, Brozek JL, Gurubhagavatula I, Murphy PB, Piper AJ, Tulaimat A, Afshar M, Balachandran JS, Dweik RA, Grunstein RR, Hart N, Kaw R, Lorenzi-Filho G, Pamidi S, Patel BK, Patil SP, Pépin JL, Soghier I, **Tamae Kakazu M**, Teodorescu. Am J Respir Crit Care Med. 2019 Aug 1;200(3):e6-e24. doi: 10.1164/rccm.201905-1071ST. Am J Respir Crit Care Med. 2019. PMID: 31368798

Noninvasive Ventilation versus CPAP as Initial Treatment of Obesity Hypoventilation Syndrome.

Soghier I, Brozek JL, Afshar M, **Tamae Kakazu M**, Wilson KC, Masa JF, Mokhlesi B. Ann Am Thorac Soc. 2019 Oct;16(10):1295-1303. doi: 10.1513/AnnalsATS.201905-380OC. Ann Am Thorac Soc. 2019. PMID: 31365842

Polysomnography Parameters Assessing Gas Exchange Best Predict Postoperative Respiratory Complications Following Adenotonsillectomy in Children With Severe OSA.

Molero-Ramirez H, **Tamae Kakazu M**, Baroody F, Bhattacharjee R. J Clin Sleep Med. 2019 Sep 15;15(9):1251-1259. doi: 10.5664/jcsm.7914. J Clin Sleep Med. 2019. PMID: 31538596

Robot-assisted bronchoscopy for pulmonary lesion diagnosis: results from the initial multicenter experience.

Chaddha U, Kovacs SP, Manley C, Hogarth DK, **Cumbo-Nacheli G**, Bhavani SV, Kumar R, Shende M, Egan JP 3rd, Murgu S. Chaddha U, et al. BMC Pulm Med. 2019 Dec 11;19(1):243. doi: 10.1186/s12890019-1010-8. BMC Pulm Med. 2019. PMID: 31829148 **Free PMC article**. Clinical Trial.

ICU Admission Muscle and Fat Mass, Survival, and Disability at Discharge: A Prospective Cohort Study.

Jaitovich A, **Khan MMHS**, Itty R, Chieng HC, Dumas CL, Nadendla P, Fantauzzi JP, Yucel RM, Feustel PJ, Judson MA. Chest. 2019 Feb;155(2):322-330. doi: 10.1016/j.chest.2018.10.023. Epub 2018 Oct 28. Chest. 2019. PMID: 30392790 **Free PMC article**. Clinical Trial.

## 2018

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McDermott JK, **Girgis RE**. Glob Cardiol Sci Pract. 2018 Mar 14;2018(1):5. doi: 10.21542/gcsp.2018.5. Glob Cardiol Sci Pract. 2018. PMID: 29644232 **Free PMC article**. Review.

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Kumar A, Kapnadak SG, **Girgis RE**, Raghu G. Kumar A. Expert Rev Respir Med. 2018 May;12(5):375385. doi: 10.1080/17476348.2018.1462704. Epub 2018 Apr 20. Expert Rev Respir Med. 2018. PMID: 29621919 Review.

The impact of ambrisentan and tadalafil upfront combination therapy on cardiac function in scleroderma associated pulmonary arterial hypertension patients: cardiac magnetic resonance feature tracking study.

Sato T, Ambale-Venkatesh B, Lima JAC, Zimmerman SL, Tedford RJ, Fujii T, Hulme OL, Pullins EH, Corona-Villalobos CP, Zamanian RT, Minai OA, **Girgis RE**, Chin K, Khair R, Damico RL, Kolb TM, Mathai SC, Hassoun PM. Pulm Circ. 2018 Jan-Mar;8(1):2045893217748307. doi: 10.1177/2045893217748307. Epub 2017 Dec 18. Pulm Circ. 2018. PMID: 29251556 **Free PMC article**.

Improvement in Right Ventricular Strain with Ambrisentan and Tadalafil Upfront Therapy in Scleroderma-associated Pulmonary Arterial Hypertension.

Mercurio V, Mukherjee M, Tedford RJ, Zamanian RT, Khair RM, Sato T, Minai OA, Torres F, **Girgis RE**, Chin K, Damico R, Kolb TM, Mathai SC, Hassoun PM. Am J Respir Crit Care Med. 2018 Feb 1;197(3):388-391. doi: 10.1164/rccm.201704-0789LE. Am J Respir Crit Care Med. 2018. PMID: 28661697 **Free PMC article**. Clinical Trial. No abstract available.

Traumatic Expulsion of Tracheal Rings: An Airway Emergency.

Ravid K, Heiser H, Faisal A, **Cumbo-Nacheli G**, Young B, Sethi S, Kumar A. J Bronchology Interv Pulmonol. 2018 Jul;25(3):e34-e36. doi: 10.1097/LBR.0000000000000472. J Bronchology Interv Pulmonol. 2018. PMID: 29944593 No abstract available.

Multiple Lung Masses in a Young Woman.

Medarov BI, **Khan MMHS**, Modi A. JAMA. 2018 Nov 27;320(20):2141-2142. doi: 10.1001/jama.2018.14770. JAMA. 2018. PMID: 30347043 No abstract available.

Unique Obstacles for Mentorship During Training. **Doyle S**, McCallister J. Chest. 2018 Sep;154(3):734. doi: 10.1016/j.chest.2018.05.045. Chest. 2018. PMID: 30195369 No abstract available.

Predictive Utility of Lung Allocation Score for Retransplantation Outcomes.

**Doyle S**, Hayes D Jr, Stewart WCL, Whitson BA, Tobias JD, Tumin D. Ann Thorac Surg. 2018 Nov;106(5):1525-1532. doi: 10.1016/j.athoracsur.2018.05.085. Epub 2018 Jul 2. Ann Thorac Surg. 2018. PMID: 30369429

[Nominal carbonic anhydrase activity minimizes airway-surface liquid pH changes during breathing.](#) Thornell IM, Li X, Tang XX, Brommel CM, Karp PH, Welsh MJ, Zabner J. *Physiol Rep.* 2018 Jan;6(2):e13569. doi: 10.14814/phy2.13569. PMID: 29380953 **Free PMC article.**

## 2017

[Nocturnal Oximetry-based Evaluation of Habitually Snoring Children.](#)

Hornero R, Kheirandish-Gozal L, Gutiérrez-Tobal GC, Philby MF, Alonso-Álvarez ML, Álvarez D, Dayyat EA, Xu Z, Huang YS, **Tamae Kakazu M**, Li AM, Van Eyck A, Brockmann PE, Ehsan Z, Simakajornboon N, Kaditis AG, Vaquerizo-Villar F, Crespo Sedano A, Sans Capdevila O, von Lukowicz M, Terán-Santos J, Del Campo F, Poets CF, Ferreira R, Bertran K, Zhang Y, Schuen J, Verhulst S, Gozal D. *Am J Respir Crit Care Med.* 2017 Dec 15;196(12):1591-1598. doi: 10.1164/rccm.201705-0930OC. *Am J Respir Crit Care Med.* 2017. PMID: 28759260 **Free PMC article.**

[Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation in Patients Over Age 70 Years: A Case Report.](#)

Hayanga JA, Murphy E, **Girgis RE**, Jansma S, Khaghani A. *Transplant Proc.* 2017 Jan-Feb;49(1):218220. doi: 10.1016/j.transproceed.2016.11.025. *Transplant Proc.* 2017. PMID: 28104142

[Impact of a Post-Discharge Integrated Disease Management Program on COPD Hospital Readmissions.](#)

Russo AN, **Sathiyamoorthy G**, Lau C, Saygin D, Han X, Wang XF, Rice R, Aboussouan LS, Stoller JK, Hatipoğlu U. *Respir Care.* 2017 Nov;62(11):1396-1402. doi: 10.4187/respcare.05547. Epub 2017 Aug 1. *Respir Care.* 2017. PMID: 28765496

[Pirfenidone and Nintedanib for Treatment of Idiopathic Pulmonary Fibrosis.](#)

**Sathiyamoorthy G**, Sehgal S, Ashton RW. *South Med J.* 2017 Jun;110(6):393-398. doi: 10.14423/SMJ.0000000000000655. *South Med J.* 2017. PMID: 28575896 **Review.**

[Controlled Clinical Trials and Real-Life Experience with Pulmonary Rehabilitation.](#)

**Sathiyamoorthy G**, Lau C, Marlow S, Hatipoğlu U. *Am J Respir Crit Care Med.* 2017 Sep 15;196(6):796797. doi: 10.1164/rccm.201703-0647LE. *Am J Respir Crit Care Med.* 2017. PMID: 28423284 **No abstract available.**

[The Assessment of Cough in a Sarcoidosis Clinic Using a Validated instrument and a Visual Analog Scale.](#)

Judson MA, Chopra A, Conuel E, Koutroumpakis E, Schafer C, Austin A, Zhang R, Cao K, Berry R, **Khan MMHS**, Modi A, Modi R, Jou S, Ilyas F, Yucel RM. *Lung.* 2017 Oct;195(5):587-594. doi: 10.1007/s00408017-0040-3. Epub 2017 Jul 13. *Lung.* 2017. PMID: 28707109

[Cystic Fibrosis Transmembrane Conductance Regulator Potentiation as a Therapeutic Strategy for Pulmonary Edema: A Proof-of-Concept Study in Pigs.](#)

**Li X**, Vargas Buonfiglio LG, Adam RJ, Stoltz DA, Zabner J, Comellas AP. *Crit Care Med.* 2017 Dec;45(12):e1240-e1246. doi: 10.1097/CCM.0000000000002720. PMID: 28953499 **Free PMC article.**