

## **DOM NEWS BLAST**

## The LSU Department of Medicine Weekly Communication

Our vision for the Department of Medicine is that we will have a national reputation for excellence in medical education by 2030. One critical component of medical education is producing new knowledge through research, including clinical trials, original research, education research and quality improvement initiatives. This week we celebrate a number of publications that support the LSU DOM's advancement of new knowledge.

In a joint collaborative between the Pulmonary/Critical Care section and the EM/IM residency program, this paper explores the discordance in oxy-hemoglobin saturation measured both by pulse oximetry (SpO2) and arterial blood gas (ABG, SaO2) among critically ill coronavirus disease 2019 (COVID-19(+)) patients compared to COVID-19(-) patients. The study found pulse oximetry was discordant with ABG more often in critically ill COVID-19(+) than COVID-19(-) patients. However, these findings appear to be driven by racial differences between cohorts. Congratulations to <u>Dr. Thomas Fox</u> (IM/ EM Resident), <u>Dr. William Mazalewski (former Pulmonary/Critical Care Fellow), <u>Dr. Hai</u> <u>Tran</u> (Pulmonary/Critical Care Fellow), and Pulmonary/Critical Care faculty: <u>Dr. Amita</u> <u>Krishnan, Dr. Stephen Kantrow, Dr. Kyle Happel, Dr. David Janz, Dr. Bennett</u> <u>deBoisblanc, and Dr. Matthew Lammi</u>. Strong work!</u>





Endothelial biomarkers of systemic sciencis-associated pulmonary hypertension Matthew R. Lammi MD MSCR<sup>1,2,1</sup>, Kathleen D. Kolstad MD PhD<sup>44</sup>, Lesley Ann Saketkoo MD MPH<sup>2,3,5</sup> Avani Khatri<sup>4</sup>, Paul J. Utz PhD<sup>2</sup>, Virginia D. Steen MD<sup>4</sup>, Lorinda Chung MD MS<sup>1,9</sup>

vian Marri, yau J. Viz Pru, yrginia U. Steen MvC, Jonna Lhuig MU No<sup>5,2</sup> Section of Pulimonary/Cittical Care and Allergy/Immunology, Louisiana State University Health Sciences enter; <sup>C</sup>comprehensive Pulimonary Hypertension Center, University Medical Center-New Orleans; <sup>3</sup> lew Orleans Scienceman and Sarcoidosis Patient Care and Research Center, <sup>5</sup>Division of Rheumatology, hiversity of California Ios Angeles; <sup>1</sup>Tulina University School of Medicien; Pulitate for Immunology and heumatology, Stanford University School of Medicien; <sup>1</sup>Division of Rheumatology, Georgetown Iniversity Medial Center; <sup>1</sup>Paio Alto VA Health Care System



<u>Dr. Matthew Lammi</u> (Pulmonary/Critical Care) recently published a first author paper on endothelial biomarkers of systemic sclerosis-associated pulmonary hypertension. The study examined three potential biomarkers that could be used to identify pulmonary hypertension (PH) earlier in those with systemic sclerosis. One of the biomarkers, Pentraxin -3 looked to be a promising biomarker of risk status as well as a marker of pre-capillary PH and should be a target for further study. Fascinating work, Dr. Lammi!





<u>Dr. Michelle Blyth</u> (Infectious Diseases) recently published a sole-author paper in Evolution, Medicine, & Public Health that was a series of case studies of urinary tract infections. Dr. Blyth uses evolutionary principles including selection, fitness and fitness cost, competition, and mismatch to discussion of this case series. Great job, Dr. Blyth!