



Adam M. Andruska

Assistant Professor of Medicine (PACCM)

CLINICAL OFFICE (PRIMARY)

- **Critical Care Medicine**

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Bio

CLINICAL FOCUS

- Pulmonary Hypertension
- Critical Care Medicine

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Medicine
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2017)
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2025)
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2025)
- Fellowship: Stanford University Pulmonary and Critical Care Fellowship (2018) CA
- Residency: Washington University Barnes Jewish Hospital Internal Medicine Residency (2014) MO
- Medical Education: Southern Illinois University School of Medicine Registrar (2011) IL

Publications

PUBLICATIONS

- **Identification of Pulmonary Arterial Hypertension Patients with Venous or Capillary Involvement.** *American journal of respiratory and critical care medicine*
Andruska, A. M., Cruz-Utrilla, A., Nossent, E. J., Celant, L. R., Yang, I. Y., Lyn, R., Lai, Y. K., Kudelko, K., Sung, Y., Spiekerkoetter, E., De Jesus Perez, V., Guo, H. H., Bogaard, et al
2026

- **Developing Benchmarks in the Diagnosis and Treatment of Pulmonary Arterial Hypertension in a Tertiary, Academic Medical Center.** *Pulmonary circulation*
Kholdani, C. A., Lee, J. H., Swenson, K. E., Liu, J., Hsi, A., Kudelko, K. T., Sweatt, A. J., Spiekerkoetter, E. F., De Jesus Perez, V., Rigdon, J., Hedlin, H., Andruska, A. M., Lyn, et al
2025; 15 (1): e70063
- **Increased BMP-Responsive Transcription Factors in Distinct Endothelial and Mesenchymal Cells in PAH.** *American journal of respiratory and critical care medicine*
Andruska, A. M., Cantu Valadez, R., Ichimura, K., Chu, P., Zhang, T., Schimmel, K., Wang, L., Cao, A., Aldred, M. A., Spiekerkoetter, E.
2024
- **3D Imaging Reveals Complex Microvascular Remodeling in the Right Ventricle in Pulmonary Hypertension.** *Circulation research*
Ichimura, K., Boehm, M., Andruska, A. M., Zhang, F., Schimmel, K., Bonham, S., Kabiri, A., Kheyfets, V. O., Ichimura, S., Reddy, S., Mao, Y., Zhang, T., Wang, et al
2024
- **Rat microbial biogeography and age-dependent lactic acid bacteria in healthy lungs.** *Lab animal*
Zhao, L., Cunningham, C. M., Andruska, A. M., Schimmel, K., Ali, M. K., Kim, D., Gu, S., Chang, J. L., Spiekerkoetter, E., Nicolls, M. R.
2024; 53 (2): 43-55
- **Sorting the wheat from the chaff: the innovative case of precision transpulmonary metabolomics.** *The European respiratory journal*
Andruska, A. M., Zamanian, R. T.
2023; 62 (4)
- **Repetitive Schistosoma Exposure Causes Perivascular Lung Fibrosis and Persistent Pulmonary Hypertension.** *Clinical science (London, England : 1979)*
Kumar, R., Lee, M. H., Kassa, B., Fonseca Balladares, D. C., Mickael, C., Sanders, L., Andruska, A., Kumar, M., Spiekerkoetter, E., Bandeira, A., Stenmark, K. R., Tuder, R. M., Graham, et al
2023
- **Utility Of Cardiopulmonary Exercise Testing In Chronic Unexplained Dyspnea In A 77 Year Old Female**
Christle, J. W., Andruska, A. M., Moneghetti, K. J., Wheeler, M. T., Ashley, E. A., Myers, J., Ruoss, S.
LIPPINCOTT WILLIAMS & WILKINS.2021: 395
- **Advances in Proximity Ligation in situ Hybridization (PLISH) BIO-PROTOCOL**
Nagendran, M., Andruska, A. M., Harbury, P. B., Desai, T. J.
2020; 10 (21)
- **A Notch3-Marked Subpopulation of Vascular Smooth Muscle Cells is the Cell of Origin for Occlusive Pulmonary Vascular Lesions.** *Circulation*
Steffes, L. C., Froistad, A. A., Andruska, A. n., Boehm, M. n., McGlynn, M. n., Zhang, F. n., Zhang, W. n., Hou, D. n., Tian, X. n., Miquerol, L. n., Nadeau, K. n., Metzger, R. J., Spiekerkoetter, et al
2020
- **Targeting BMPR2 Trafficking with Chaperones - An Important Step Towards Precision Medicine in Pulmonary Arterial Hypertension.** *American journal of respiratory cell and molecular biology*
Andruska, A. n., Ali, K. n., Spiekerkoetter, E. n.
2020
- **EXPRESS: Drug Repositioning in Pulmonary Arterial Hypertension: Challenges and Opportunities.** *Pulmonary circulation*
Grinnan, D., Trankle, C., Andruska, A., Bloom, B., Spiekerkoetter, E. F.
2019: 2045894019832226
- **Consequences of BMPR2 Deficiency in the Pulmonary Vasculature and Beyond: Contributions to Pulmonary Arterial Hypertension.** *International journal of molecular sciences*
Andruska, A., Spiekerkoetter, E.
2018; 19 (9)
- **Fragile Histidine Triad (FHIT), a Novel Modifier Gene in Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*

Dannewitz Prosseda, S., Tian, X., Kuramoto, K., Boehm, M., Sudheendra, D., Miyagawa, K., Zhang, F., Solow-Cordero, D., Saldivar, J. C., Austin, E. D., Loyd, J. E., Wheeler, L., Andruska, et al
2018

- **Pneumonia Pathogen Characterization Is an Independent Determinant of Hospital Readmission** *CHEST*

Andruska, A., Micek, S. T., Shindo, Y., Hampton, N., Colona, B., McCormick, S., Kollef, M. H.
2015; 148 (1): 103–11

- **Systolic blood pressure on discharge after left ventricular assist device insertion is associated with subsequent stroke.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*

Nassif, M. E., Tibrewala, A., Raymer, D. S., Andruska, A., Novak, E., Vader, J. M., Itoh, A., Silvestry, S. C., Ewald, G. A., LaRue, S. J.
2015; 34 (4): 503-8

- **Chronic network stimulation enhances evoked action potentials.** *Journal of neural engineering*

Ide, A. N., Andruska, A., Bohler, M., Wheeler, B. C., Brewer, G. J.
2010; 7 (1): 16008

PRESENTATIONS

- Protein tyrosine kinases dissociate into BMPR2 supportive and repressive families. - American Thoracic Society 2019 Grover Conference: 2019 - On the Pulmonary Vasculature in Development, Injury and Repair. (9/7/2019)