



Brooks Thomas Kuhn, M.D., M.A.S.

Philosophy of Care

There is no silver bullet to battle COPD, but meaningful and life-changing outcomes are possible through precise phenotyping of disease and personalized care. I thoroughly review patient medical records and listen to the patient's history to devise a clear, thoughtful diagnostic and therapeutic plan. Most importantly, I educate my patients about my proposed plan so that together we can make a diagnosis and optimize treatment.

Clinical Interests

Dr. Kuhn is a pulmonology and critical care (i.e. intensive care) specialist. He is a specialist in the management of patients with chronic obstructive pulmonary disease (COPD) and alpha-1 anti-trypsin deficiency. Dr. Kuhn serves as co-director of the UC Davis Comprehensive COPD Clinic and director of the Alpha-1 Foundation designated Clinical Resource Center.

Research/Academic Interests

Dr. Kuhn's research interest is in the management of patients with acute exacerbations of COPD including: early identification of exacerbation using new technologies such as remote patient monitoring to prevent hospitalizations and undue worsening of disease. Dr. Kuhn applies health informatics tools and new technologies to improve the management of COPD patients in the modern health care environment.

Title Assistant Professor of Medicine

Specialty Pulmonology, Critical Care Medicine, Internal Medicine

Department [Internal Medicine](#)

Division [Pulmonary, Critical Care, and Sleep Medicine](#)

Clinic UC Davis Medical Group, J Street

Center/Program Affiliation [UC Davis Medical Group](#)

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Education M.D., Jefferson Medical College, Philadelphia PA 2009

M.A.S., Clinical Research, UC Davis, Sacramento CA 2017

B.S., Microbiology, UC Santa Barbara, Santa Barbara CA 2005



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Internships Internal Medicine, UC Davis Medical Center, Sacramento CA 2009-2010

Residency Internal Medicine, UC Davis Medical Center, Sacramento CA 2010-2012

Fellowships Pulmonary and Critical Care Medicine, UC Davis Medical Center, Sacramento CA 2013-2016

Board Certifications American Board of Internal Medicine
American Board of Internal Medicine, Critical Care Medicine
American Board of Internal Medicine, Pulmonary Medicine

Professional Memberships American Thoracic Society
California Thoracic Society

Honors and Awards PCCM Fellow's Faculty of the Year, 2021
Sacramento Magazine's Top Doctors 2020, Pulmonary and Critical Care Medicine, 2020
Alpha-1 Foundation Designated Expert in Alpha-1 Antitrypsin Deficiency, 2018
Honored Scholar, Western Section of the American Federation for Medical Research, 2016
Outstanding Faculty of the Year Award at Sacramento VA Hospital, UC Davis Medical Center, Department of Internal Medicine, 2013

Select Recent Publications Quan MA, Hoerger JL, Mullins EH, Kuhn BT. A 66-Year-Old Man With Subacute Cough and Worsening Dyspnea Previously Diagnosed With COVID-19 Pneumonia. J Investig Med High Impact Case Rep. 2022 Jan-Dec;10:23247096211055334. doi:10.1177/23247096211055334. PMID:35001693.

Lam J, Tonnu-Mihara I, Kenyon NJ, Kuhn BT. Comparative Effectiveness of Roflumilast and Azithromycin for the Treatment of Chronic Obstructive Pulmonary Disease. Chronic Obstr Pulm Dis. 2021 Oct 28;8(4):450-463. doi:10.15326/jcopdf.2021.0224. PMID:34379371.

Brooks T. Kuhn, Katherine D. Wick, Michael Schivo. An Update in Health Disparities in COPD in the USA. Current Pulmonology Reports. 2021 Mar;1-8. doi:10.1007/s13665-021-00268-0.

McNulty MJ, Silberstein DZ, Kuhn BT, Padgett HS, Nandi S, McDonald KA, Cross CE. Alpha-1 antitrypsin deficiency and recombinant protein sources with focus on plant sources: Updates, challenges and perspectives. Free Radic Biol Med. 2021 Feb 1;163:10-30. doi:10.1016/j.



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Rehm GB, Cortés-Puch I, Kuhn BT, Nguyen J, Fazio SA, Johnson MA, Anderson NR, Chuah CN, Adams JY. Use of Machine Learning to Screen for Acute Respiratory Distress Syndrome Using Raw Ventilator Waveform Data. Crit Care Explor. 2021 Jan 8;3(1):e0313. doi:10.1097/CCE.0000000000000313. PMID:33458681.

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Rehm G, Woo SH, Chen XL, Kuhn BT, Cortes-Puch I, Anderson N, Adams JY, Chuah CN. Leveraging IoTs and Machine Learning for Patient Diagnosis and Ventilation Management in the Intensive Care Unit. IEEE Pervasive Computation. 2020;19(3):68-78.

Chau-Etchepare F, Hoerger JL, Kuhn BT, Zeki AA, Haczku A, Louie S, Kenyon NJ, Davis CE, Schivo M. Viruses and non-allergen environmental triggers in asthma. J Investigative Med. 2019; 67:1029-1041.

Rehm GB, Kuhn BT, Nguyen J, Anderson NR, Chuah CN, Adams JY. Improving Mechanical Ventilator Clinical Decision Support Systems with a Machine Learning Classifier for Determining Ventilator Mode. Stud Health Technol Inform. 2019 Aug 21;264:318-322. doi:10.3233/SHTI190235. PMID:31437937.



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