




## Joseph Levitt, MD, MS

Assistant Professor of Medicine (Pulmonary and Critical Care Medicine) at the Stanford University Medical Center

Medicine - Pulmonary, Allergy & Critical Care Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CLINICAL OFFICES

- **Chest Clinic**

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MC 5351

Stanford, CA 94305

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Ashvinder Khanna - Coordinator Div. Pulmonary and Critical Care

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### Bio

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#### BIO

Dr. Joseph Levitt specializes in the treatment of adult pulmonary diseases including COPD, asthma, bronchiectasis, chronic cough, sarcoidosis, and pulmonary infections. He has practiced pulmonary medicine for more than 10 years. In addition to outpatient pulmonary medicine, Dr. Levitt is a critical care intensivist with a specific research interest in the clinical management of the Acute Respiratory Distress Syndrome (ARDS).

#### CLINICAL FOCUS

- Pulmonary Critical Care
- Critical Care Medicine

#### ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Medicine - Pulmonary, Allergy & Critical Care Medicine

#### ADMINISTRATIVE APPOINTMENTS

- Program Director, Division of Pulmonary and Critical Care Medicine, Stanford University Department of Medicine, (2015- present)

#### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Pulmonary and Critical Care Fellowship (2005) CA
- Fellowship: University of Chicago Pulmonary Disease and Critical Care Medicine Fellowship (2004) IL
- Internship: University of Arizona Internal Medicine Residency (1999) AZ
- Residency: University of Chicago Medical Center Internal Medicine Residency (2001) IL
- Medical Education: University of Minnesota School of Medicine Registrar (1998) MN
- Residency: John H Stroger Jr Hospital of Cook County Internal Medicine Residency (2002) IL
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2006)
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2005)
- M.D., University of Minnesota (1998)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on the physiologic and biomarker characteristics of early acute lung injury (ALI) prior to need for mechanical ventilation. While, to date no pharmacologic treatment has improved survival in ALI, following the paradigm of early goal directed therapy for severe sepsis, clinical benefit may derive from identifying patients and initiating treatment prior to the need for positive pressure ventilation (and therefore prior to meeting current study entry criteria).

### CLINICAL TRIALS

- EPVent 2- A Phase II Study of Mechanical Ventilation Directed by Transpulmonary Pressures, Not Recruiting
- Human Mesenchymal Stem Cells For Acute Respiratory Distress Syndrome, Not Recruiting
- Human Mesenchymal Stromal Cells For Acute Respiratory Distress Syndrome (START), Not Recruiting
- LIPS-A: Lung Injury Prevention Study With Aspirin, Not Recruiting
- LIPS-B: Lung Injury Prevention Study With Budesonide and Beta, Not Recruiting
- Reevaluation Of Systemic Early Neuromuscular Blockade, Not Recruiting
- Statins for Acutely Injured Lungs From Sepsis, Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

## Publications

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### PUBLICATIONS

- **Effect of Titrating Positive End-Expiratory Pressure (PEEP) With an Esophageal Pressure-Guided Strategy vs an Empirical High PEEP-FIO2 Strategy on Death and Days Free From Mechanical Ventilation Among Patients With Acute Respiratory Distress Syndrome A Randomized Clinical Trial**  
Beitler, J. R., Sarge, T., Banner-Goodspeed, V. M., Gong, M. N., Cook, D., Novack, V., Loring, S. H., Talmor, D., Loring, S., Banner-Goodspeed, V., Fish, E., Jinadasa, S., Ritz, et al  
AMER MEDICAL ASSOC.2019: 846-57
- **Relationship Between Laryngeal Sensation, Length of Intubation, and Aspiration in Patients with Acute Respiratory Failure.** *Dysphagia*  
Borders, J. C., Fink, D., Levitt, J. E., McKeehan, J., McNally, E., Rubio, A., Scheel, R., Siner, J. M., Taborda, S. G., Vojnik, R., Warner, H., White, S. D., Langmore, et al  
2019
- **Treatment with allogeneic mesenchymal stromal cells for moderate to severe acute respiratory distress syndrome (START study): a randomised phase 2a safety trial.** *The Lancet. Respiratory medicine*  
Matthay, M. A., Calfee, C. S., Zhuo, H., Thompson, B. T., Wilson, J. G., Levitt, J. E., Rogers, A. J., Gotts, J. E., Wiener-Kronish, J. P., Bajwa, E. K., Donahoe, M. P., McVerry, B. J., Ortiz, et al  
2018
- **Randomized Clinical Trial of a Combination of an Inhaled Corticosteroid and Beta Agonist in Patients at Risk of Developing the Acute Respiratory Distress Syndrome** *CRITICAL CARE MEDICINE*  
Festic, E., Carr, G. E., Cartin-Ceba, R., Hinds, R. F., Banner-Goodspeed, V., Bansal, V., Asuni, A. T., Talmor, D., Rajagopalan, G., Frank, R. D., Gajic, O., Matthay, M. A., Levitt, et al  
2017; 45 (5): 798-805
- **Proteomic study of acute respiratory distress syndrome: current knowledge and implications for drug development** *EXPERT REVIEW OF PROTEOMICS*  
Levitt, J. E., Rogers, A. J.  
2016; 13 (5): 457-469
- **Increased Resource Use in Lung Transplant Admissions in the Lung Allocation Score Era** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*

- Maxwell, B. G., Mooney, J. J., Lee, P. H., Levitt, J. E., Chhatwani, L., Nicolls, M. R., Zamora, M. R., Valentine, V., Weill, D., Dhillon, G. S.  
2015; 191 (3): 302-308
- **Mesenchymal stem (stromal) cells for treatment of ARDS: a phase 1 clinical trial.** *The Lancet. Respiratory medicine*  
Wilson, J. G., Liu, K. D., Zhuo, H., Caballero, L., McMillan, M., Fang, X., Cosgrove, K., Vojnik, R., Calfee, C. S., Lee, J., Rogers, A. J., Levitt, J., Wiener-Kronish, et al  
2015; 3 (1): 24-32
  - **Evolving Epidemiology and Definitions of the Acute Respiratory Distress Syndrome and Early Acute Lung Injury** *CLINICS IN CHEST MEDICINE*  
Sweatt, A. J., Levitt, J. E.  
2014; 35 (4): 609-?
  - **Evolving epidemiology and definitions of the acute respiratory distress syndrome and early acute lung injury.** *Clinics in chest medicine*  
Sweatt, A. J., Levitt, J. E.  
2014; 35 (4): 609-624
  - **Design and implementation of the START (STem cells for ARDS Treatment) trial, a phase 1/2 trial of human mesenchymal stem/stromal cells for the treatment of moderate-severe acute respiratory distress syndrome** *ANNALS OF INTENSIVE CARE*  
Liu, K. D., Wilson, J. G., Zhuo, H., Caballero, L., McMillan, M. L., Fang, X., Cosgrove, K., Calfee, C. S., Lee, J., Kangelaris, K. N., Gotts, J. E., Rogers, A. J., Levitt, et al  
2014; 4
  - **Designing a better "nest": applicable to preventing hospital exposures to risk factors for acute respiratory distress syndrome or just retrospective study design?** *Critical care medicine*  
Levitt, J.  
2014; 42 (1): 197-198
  - **Prehospital use of inhaled steroids and incidence of acute lung injury among patients at risk** *JOURNAL OF CRITICAL CARE*  
Festic, E., Ortiz-Diaz, E., Lee, A., Li, G., Kor, D. J., Adebola, A., Akca, O., Hoth, J., Levitt, J. E., Carter, R., Gajic, O.  
2013; 28 (6): 985-991
  - **Early acute lung injury: criteria for identifying lung injury prior to the need for positive pressure ventilation\*.** *Critical care medicine*  
Levitt, J. E., Calfee, C. S., Goldstein, B. A., Vojnik, R., Matthay, M. A.  
2013; 41 (8): 1929-1937
  - **Emerging Pharmacological Therapies for Prevention and Early Treatment of Acute Lung Injury** *SEMINARS IN RESPIRATORY AND CRITICAL CARE MEDICINE*  
Ortiz-Diaz, E., Festic, E., Gajic, O., Levitt, J. E.  
2013; 34 (4): 448-458
  - **OXYGEN SATURATION TO FRACTION OF INSPIRED OXYGEN RATIO ON ADMISSION IS A PREDICTOR OF ARDS DEVELOPMENT AMONG PATIENTS AT RISK**  
Festic, E., Levitt, J., Kor, D., Gajic, O.  
LIPPINCOTT WILLIAMS & WILKINS.2012: U176
  - **Pathogenetic and predictive value of biomarkers in patients with ALI and lower severity of illness: results from two clinical trials** *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*  
Agrawal, A., Zhuo, H., Brady, S., Levitt, J., Steingrub, J., Siegel, M. D., Soto, G., Peterson, M. W., Chesnutt, M. S., Matthay, M. A., Liu, K. D.  
2012; 303 (8): L634-L639
  - **Clinical review: Early treatment of acute lung injury - paradigm shift toward prevention and treatment prior to respiratory failure** *CRITICAL CARE*  
Levitt, J. E., Matthay, M. A.  
2012; 16 (3)
  - **Clarithromycin for prevention of bronchiolitis obliterans syndrome in lung allograft recipients** *CLINICAL TRANSPLANTATION*  
Dhillon, G. S., Valentine, V. G., Levitt, J., Patel, P., Gupta, M. R., Duncan, S. R., Seoane, L., Weill, D.  
2012; 26 (1): 105-110
  - **PATIENT-RELATED FACTORS ASSOCIATED WITH HOSPITAL DISCHARGE TO A CARE FACILITY AFTER CRITICAL ILLNESS** *AMERICAN JOURNAL OF CRITICAL CARE*  
Gehlbach, B. K., Salamanca, V. R., Levitt, J. E., Sachs, G. A., Sweeney, M. K., Pohlman, A. S., Charbeneau, J., Krishnan, J. A., Hall, J. B.

2011; 20 (5): 378-386

- **The utility of clinical predictors of acute lung injury: towards prevention and earlier recognition.** *Expert review of respiratory medicine*  
Levitt, J. E., Matthay, M. A.  
2010; 4 (6): 785-797
- **Impact of Hepatitis B Core Antibody Positive Donors in Lung and Heart-Lung Transplantation: An Analysis of the United Network for Organ Sharing Database** *TRANSPLANTATION*  
Dhillon, G. S., Levitt, J., Mallidi, H., Valentine, V. G., Gupta, M. R., Sista, R., Weill, D.  
2009; 88 (6): 842-846
- **Does Itraconazole Improve Quality of Life in Severe Asthma with Fungal Sensitization?** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Khazeni, N., Levitt, J. E.  
2009; 180 (2): 191-192
- **The pathogenetic and prognostic value of biologic markers in acute lung injury.** *Journal of intensive care medicine*  
Levitt, J. E., Gould, M. K., Ware, L. B., Matthay, M. A.  
2009; 24 (3): 151-167
- **Identification of Early Acute Lung Injury at Initial Evaluation in an Acute Care Setting Prior to the Onset of Respiratory Failure** *CHEST*  
Levitt, J. E., Bedi, H., Calfee, C. S., Gould, M. K., Matthay, M. A.  
2009; 135 (4): 936-943
- **Randomized clinical trial of activated protein C for the treatment of acute lung injury** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Liu, K. D., Levitt, J., Zhuo, H., Kallet, R. H., Brady, S., Steingrub, J., Tidswell, M., Siegel, M. D., Soto, G., Peterson, M. W., Chesnutt, M. S., Phillips, C., Weinacker, et al  
2008; 178 (6): 618-623
- **Diagnostic utility of B-type natriuretic peptide in critically ill patients with pulmonary edema: a prospective cohort study** *CRITICAL CARE*  
Levitt, J. E., Vinayak, A. G., Gehlbach, B. K., Pohlman, A., Van Cleve, W., Hall, J. B., Kress, J. P.  
2008; 12 (1)
- **Daily sedative interruption in mechanically ventilated patients at risk for coronary artery disease** *CRITICAL CARE MEDICINE*  
Kress, J. P., Vinayak, A. G., Levitt, J., Schweickert, W. D., Gehlbach, B. K., Zimmerman, F., Pohlman, A. S., Hall, J. B.  
2007; 35 (2): 365-371
- **Usefulness of the external jugular vein examination in detecting abnormal central venous pressure in critically ill patients** *ARCHIVES OF INTERNAL MEDICINE*  
Vinayak, A. G., Levitt, J., Gehlbach, B., Pohlman, A. S., Hall, J. B., Kress, J. P.  
2006; 166 (19): 2132-2137
- **Treatment of acute lung injury: Historical perspective and potential future therapies** *SEMINARS IN RESPIRATORY AND CRITICAL CARE MEDICINE*  
Levitt, J. E., Matthay, M. A.  
2006; 27 (4): 426-437
- **Poor choice of primary outcome in a clinical trial of pirfenidone in patients with IPF** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
LEVITT, J., Gould, M. K.  
2005; 172 (9): 1228-1229