

Thomas S. Valley, MD, MSc
Assistant Professor
Division of Pulmonary and Critical Care Medicine
Department of Internal Medicine

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Education and Training

Education

08/2001-05/2005 BA, History and Chemistry (*summa cum laude*), Emory University, Atlanta, Georgia

08/2005-05/2009 MD, University of Miami, Miami, Florida

08/2015-05/2016 MSc, Health and Health Care Research, University of Michigan, Ann Arbor, Michigan

Post-Doctoral Training

07/2009-06/2010 Intern, Internal Medicine, University of Texas-Southwestern, Dallas, Texas

07/2010-06/2012 Resident, Internal Medicine, University of Texas-Southwestern, Dallas, Texas

07/2012-06/2013 Chief Resident, Internal Medicine, University of Texas-Southwestern, Dallas, Texas

07/2013-06/2016 Fellowship, Pulmonary and Critical Care Medicine, University of Michigan, Ann Arbor, Michigan

06/2015-05/2018 Research Fellow (T32 HL007749), University of Michigan, Ann Arbor, Michigan

Certification and Licensure

Certification

10/2012-present American Board of Internal Medicine – Internal Medicine (ABIM ID: 329778)

10/2015-present American Board of Internal Medicine – Pulmonary Disease (ABIM ID: 329778)

10/2016-present American Board of Internal Medicine – Critical Care (ABIM ID: 329778)

Licensure

05/2011-05/2016 State of Texas, Medical License (N9973)

05/2011-05/2020 United States, DEA Registration (FV2761232)

05/2013-01/2019 State of Michigan, Medical License (4301102745)

05/2013-01/2019 State of Michigan, Controlled Substance (5315059811)

Academic, Administrative, Clinical, and Military Appointments

Academic Appointments

06/2012-06/2013 Chief Resident and Assistant Instructor, Department of Internal Medicine, University of Texas-Southwestern, Dallas, Texas

07/2016-06/2018 Clinical Lecturer, Division of Pulmonary and Critical Care, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan

07/2018-present Assistant Professor, Division of Pulmonary and Critical Care, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan

Clinical Interests

Critical care

Research Interests

Improving ICU admission decision-making for the intensive care unit
Understanding and enhancing clinical decision-making within critical care
Reducing long-term emotional distress among family members of ICU patients
Evaluating outcomes in the ICU using advanced causal models

Grants

Current Grants

NIH/NHLBI Loan Repayment Program Award (L30 HL133988): Satisfaction with life after pneumonia
Valley, Thomas S, PI
10/01/2016-present
Role: PI

Blue Cross Blue Shield of Michigan Foundation (2429.PIRAP): Understanding family distress in the ICU
Valley, Thomas S, PI
7/1/2017-present
Role: PI

Completed Grants

University of Michigan Pilot and Exploratory Projects in Palliative Care of Patients with Serious Illness and Their Families (U055354): Understanding family distress in the ICU
Valley, Thomas S, PI
12/1/2016-12/31/2017
Role: PI

NIH T32 HL007749: Multidisciplinary training program in lung diseases
Standiford, Theodore J, PI
06/01/2015-05/31/2018
Role: Trainee

Honors and Awards

National/Regional

2015 American Thoracic Society Behavioral Science and Health Services Research Abstract Scholarship

2016 American Thoracic Society Public Advisory Roundtable-Behavioral Science and Health Services Research Abstract Scholarship

2016 NIH/NHLBI Loan Repayment Program award

2018 Texas Health Resources Clinical Scholar

Institutional

2001-2005 Dean Scholar, Emory University, Atlanta, Georgia

2003-2005 Phi Beta Kappa, Emory University, Atlanta, Georgia

- 2005 Top Graduating Undergraduate in Chemistry, Emory University, Atlanta, Georgia
- 2014 Veteran Affairs Hospital Fellow of the Month, Ann Arbor, Michigan

Memberships in Professional Societies

- 2013-present American Thoracic Society
- 2013-present American College of Chest Physicians
- 2015-present Society for Medical Decision Making
- 2016-present Society of Critical Care Medicine

Peer Review Services

Journals (*ad hoc*)

- Annals of the American Thoracic Society
- BMJ Quality & Safety
- Critical Care
- Critical Care Medicine
- Journal of Hospital Medicine, "Top 10% Reviewer, 2017"

Teaching Activity

Trainees

- 2016-2017 Gabrielle Young (University of Michigan undergraduate student)
- 2017-2018 Kyra Lipman (University of Michigan undergraduate student)
- 2017-2018 Madison Kennedy (University of Michigan undergraduate student)
- 2017-present Brittany Ervin (University of Michigan medical student)
- 2017-present Griffin Klaft (University of Michigan undergraduate nursing student)
- 2018-present Emily Harlan (University of Michigan internal medicine resident)

Intramural Lectures and Seminars

- 02/2014 Speaker, Pulmonary/Critical Care Divisional Journal Club, University of Michigan, Ann Arbor, Michigan
- 03/2014 Speaker, Pulmonary/Critical Care Divisional Grand Rounds, "Lymphangioliomyomatosis", University of Michigan, Ann Arbor, Michigan
- 09/2014 Lecturer, M2 Respiratory Sequence, University of Michigan, Ann Arbor, Michigan
- 11/2014 Speaker, Pulmonary Research Conference, "Outcomes of the ICU admission associated with pneumonia," University of Michigan, Ann Arbor, Michigan
- 01/2015-04/2015 Lecturer, EECS 481, College of Electrical Engineering and Computer Science, "ICU rehabilitation tools," University of Michigan, Ann Arbor, Michigan
- 03/2015 Speaker, Pulmonary/Critical Care Divisional Grand Rounds, "Respiratory Bronchiolitis", University of Michigan, Ann Arbor, Michigan
- 04/2015 Speaker, Pulmonary/Critical Care Divisional Journal Club, University of Michigan, Ann Arbor, Michigan
- 09/2015 Lecturer, M2 Respiratory Sequence, University of Michigan, Ann Arbor,

Michigan

09/2015-10/2015 Lecturer, CCMU Nurse Education Day, University of Michigan, Ann Arbor, Michigan

02/2016 Speaker, Pulmonary/Critical Care Divisional Grand Rounds, "Bronchopulmonary Dysplasia in Adults", University of Michigan, Ann Arbor, Michigan

03/2016 Speaker, CHOP Fellows' Conference, "Association of ICU admission with outcomes for patients with COPD, HF, and AMI," University of Michigan, Ann Arbor, Michigan

05/2016 Speaker, Pulmonary Research Conference, "Re-evaluating practices in the ICU," University of Michigan, Ann Arbor, Michigan

06/2016 Speaker, Pulmonary/Critical Care Divisional Journal Club, University of Michigan, Ann Arbor, Michigan

07/2016 Lecturer, Pulmonary/Critical Care Fellows' Conference, "Shock", University of Michigan, Ann Arbor, Michigan

08/2016 Lecturer, Pulmonary/Critical Care Fellows' Conference, "Respiratory Failure", University of Michigan, Ann Arbor, Michigan

08/2016 Lecturer, M2 Respiratory Sequence, University of Michigan, Ann Arbor, Michigan

10/2016 Speaker, Pulmonary/Critical Care Divisional Conference, "Increasing ICU access for marginal patients with pneumonia", University of Michigan, Ann Arbor, Michigan

11/2016 Lecturer, M1 Respiratory Sequence, University of Michigan, Ann Arbor, MI

12/2016 Speaker, Pulmonary Research Conference, "Identifying patients with pneumonia who benefit from intensive care," University of Michigan, Ann Arbor, Michigan

01/2017 Lecturer, VA Internal Medicine Noon Conference, "Shock", Ann Arbor VA, Ann Arbor, Michigan

02/2017 Lecturer, Fourth year medical student critical care boot camp, University of Michigan, Ann Arbor, Michigan

08/2017 Lecturer, Pulmonary/Critical Care Fellows' Conference, "Respiratory Failure", University of Michigan, Ann Arbor, Michigan

08/2017 Lecturer, Pulmonary/Critical Care Fellows' Conference, "Shock", University of Michigan, Ann Arbor, Michigan

10/2017 Speaker, University of Michigan Pulmonary and Critical Care Medicine Update Course, "2017 Update in Mechanical Ventilation", Dearborn, Michigan

10/2017 Discussant, Internal Medicine Morning Report, University of Michigan, Ann Arbor, Michigan

11/2017 Speaker, Undergraduate Research Opportunity Program Health Sciences Seminar, "Research ethics and integrity", University of Michigan, Ann Arbor, Michigan

11/2017 Lecturer, M1 Respiratory Sequence, University of Michigan, Ann Arbor, Michigan

11/2017 Speaker, Pulmonary Research Conference, "Improving clinical decision-making in the ICU," University of Michigan, Ann Arbor, Michigan

11/2017 Speaker, Palliative Care Research Conference, "Understanding family

12/2017	distress in the ICU,” University of Michigan, Ann Arbor, Michigan Speaker, Pulmonary/Critical Care Divisional Conference, “Update in mechanical ventilation”, University of Michigan, Ann Arbor, Michigan
12/2017	Speaker, CCMU Multidisciplinary Team Meeting, “Understanding family distress in the ICU,” University of Michigan, Ann Arbor, Michigan
02/2018	Moderator, Innovation Tournament, IHPI Clinician Scholars Program, University of Michigan, Ann Arbor, Michigan
03/2018	Moderator, Innovation Tournament, IHPI Clinician Scholars Program, University of Michigan, Ann Arbor, Michigan
03/2018	Lecturer, Fourth year medical student critical care boot camp, University of Michigan, Ann Arbor, Michigan
05/2018	Speaker, CCMU Unit-Based Committee, “Understanding the family experience in the ICU,” University of Michigan, Ann Arbor, Michigan
05/2018	Discussant, Internal Medicine Morning Report, University of Michigan, Ann Arbor, Michigan

Committee and Administrative Services

National

10/2015-present	Member, Critical Care Assembly Program Committee, American Thoracic Society
05/2016	Co-chair, Poster Discussion Session: “Can ICU design improve ICU care?”, American Thoracic Society International Conference, Denver, Colorado
05/2016	Session Planner and Co-chair, Scientific Symposium: “Building e-bridges: tools at our fingertips for enhancing collaborative care”, American Thoracic Society International Conference, Denver, Colorado
05/2017-present	Member, Critical Care Assembly Early Career Professional’s Working Group, American Thoracic Society
05/2017	Co-chair, Thematic Poster Session: “Improving quality and outcomes of critical care”, American Thoracic Society International Conference, Washington, D.C.
05/2017	Co-chair, Thematic Poster Session: “Non-pulmonary critical care problems”, American Thoracic Society International Conference, Washington, D.C.
05/2017-present	Member, Career Development Committee, Society for Medical Decision Making
05/2018	Co-chair, Poster Discussion Session: “Big data in health care: predictive analytics, clinical decision support, and rapid response”, American Thoracic Society International Conference, San Diego, California
05/2018	Co-chair, Thematic Poster Session: “I still haven’t found what I’m looking for: identifying and managing sepsis”, American Thoracic Society International Conference, San Diego, California
05/2018	Session Planner and Co-chair, Scientific Symposium: “Choosing rightly: at the intersection of personalized medicine and de-adoption of low value care”, American Thoracic Society International Conference, San Diego, California
05/2018	Session Planner and Co-chair, Scientific Symposium: “Diversity across the critical care spectrum from patients to clinicians to leaders: why it matters”, American Thoracic Society International Conference, San Diego, California

Institutional

07/2011-06/2013	Co-founder, Internal Medicine Resident Council, University of Texas-Southwestern, Dallas, Texas
07/2012-06/2013	Member, Graduate Medical Education Executive Committee, University of Texas-Southwestern, Dallas, Texas
05/2017-present	Physician Lead, Schwartz Center Rounds for Compassionate Care, University of Michigan, Ann Arbor, Michigan
08/2017-present	Member, Fellowship Interview Committee, Division of Pulmonary and Critical Care Medicine, University of Michigan, Ann Arbor, Michigan

Visiting Professorships and Invited Presentations

Visiting Professorships – International

09/2017	Visiting Professor, “Overuse, underuse, and just right: how do we decide who gets admitted to the ICU?”, Critical Care Grand Rounds, Health Sciences Centre Winnipeg, University of Manitoba, Winnipeg, Canada
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Invited Presentations – National

05/2015	Speaker, “ICU admission reduces mortality in marginal patients with pneumonia”, Mini-symposium, American Thoracic Society International Conference, Denver, Colorado
11/2015	Speaker, “ICU use for pneumonia”, Online webinar, Veterans Affairs National Methods Advisory Committee
05/2016	Speaker, “Helping me help you: making the right decision for different patients”, Scientific symposium, American Thoracic Society International Conference, San Francisco, California
05/2016	Speaker, “ICU admission does not confer a survival benefit for COPD, HF, or MI”, Mini-symposium, American Thoracic Society International Conference, San Francisco, California
03/2017	Speaker, “Association of intensive care unit admission with mortality among older patients with pneumonia,” Online webinar, American Thoracic Society Assembly on Microbiology, Tuberculosis, and Pulmonary Infection Journal Club
10/2017	Speaker, “Communication strategies to improve influenza vaccination rates differ by prior vaccination status”, Mini-symposium, Society for Medical Decision Making North American Meeting, Pittsburgh, Pennsylvania
03/2018	Speaker, “Who should go to the ICU?”, Division of Pulmonary and Critical Care, University of Virginia, Charlottesville, Virginia
04/2018	Speaker, “ICU admission decision-making: is there a wrong answer?”, Division of Pulmonary and Critical Care Medicine, University of Texas-Southwestern, Dallas, Texas
05/2018	Speaker, “Shades of gray: how do we admit patients to the ICU?”, Division of Pulmonary Medicine, University of Utah, Salt Lake City, Utah
05/2018	Speaker, “Identifying pneumonia patients who need intensive care (and those who don’t)”, Scientific symposium, American Thoracic Society International Conference, San Diego, California

Invited Presentations – Regional

01/2018	Discussant, “Why do you need to breathe?”, Discussion, Ann Arbor Open School, Ann Arbor, Michigan
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Bibliography

Peer-Reviewed Publications

1. Strowd L, Pillsbury D, Kyzima J, **Valley T**, Rubin BK. Dysphagia dietary guidelines and the rheology of nutritional feeds and barium test feeds. *Chest*. 2008; 133 (6): 1397-1401. PMID: 18339774
2. **Valley T**, Sheshadri A, Hoopman TC. A young man with empyema: a report of isolated Fusobacterial disease. *Infectious Diseases in Clinical Practice*. November 2011; 19 (6): e31-e32. doi: 10.1097/IPC.0b013e31822e9be3
3. De Simone N, Racska L, Bevan S, Matevosyan K, **Valley T**, Girod C, Sarode R. Therapeutic plasma exchange in the management of sepsis and multiple organ dysfunction syndrome: a report of three cases. *J Clin Apher*. 2014; 29(2): 127-13. PMID: 24000124
4. **Valley TS**, Sjoding MW, Ryan AM, Iwashyna TJ, Cooke CR. Association of intensive care unit admission with mortality among older patients with pneumonia. *JAMA*. 2015; 12: 1272-1279. PMID: 26393850
5. **Valley TS**, Cooke CR. The epidemiology of sepsis: questioning our understanding of the role of race. *Critical Care*. 2015; 19(1): 347. PMID: 26324079
6. Sjoding MW, **Valley TS**, Prescott HC, Wunsch H, Iwashyna TJ, Cooke CR. Rising billing for intermediate intensive care among hospitalized Medicare beneficiaries between 1996 and 2010. *American Journal of Respiratory and Critical Care Medicine*. 2016; 193(2): 163-170. PMID: 26372779
7. **Valley TS**, Ryan AM, Cooke CR. Intensive care unit admission and mortality among Medicare beneficiaries with pneumonia—reply. *JAMA*. 2016; 315(12): 1285. PMID: 27002455
8. **Valley TS**, Fagerlin A. Disruptive technology: can electronic portals promote communication in the ICU. *Annals of the American Thoracic Society*. 2016; 13(3): 309-310. PMID: 26963352
9. **Valley TS**, Sjoding MW, Goldberger ZD, Cooke CR. Intensive care use and quality of care for patients with myocardial infarction and heart failure. *Chest*. 2016; 150(3): 524-32. PMID: 27318172
10. **Valley TS**, Walkey AJ, Lindenauer PK, Wiener RS, Cooke CR. Association between non-invasive ventilation and mortality among older patients with pneumonia. *Critical Care Medicine*. 2017; 45(3): e246-e254. PMID: 27749319
11. **Valley TS**, Walkey AJ, Lindenauer PK, Wiener RS, Cooke CR. To try and fail or succeed without trying: difficult decisions for clinicians caring for patients with pneumonia. *Critical Care Medicine*. 2017; 45(4): e466-e467. PMID: 28291117
12. **Valley TS**, Sjoding MW, Ryan AM, Iwashyna TJ, Cooke CR. ICU admission and survival among older patients with chronic obstructive pulmonary disease, heart failure, or myocardial infarction. *Annals of the American Thoracic Society*. 2017; 14(6): 943-951. PMID: 28208030
13. Fagerlin A, **Valley TS**, Scherer AM, Knaus M, Das E, Zikmund-Fisher BJ. Communicating infectious disease prevalence through graphics: results from an international survey. *Vaccine*. 2017; 35(32):4041-4047. PMID: 28647168
14. Costa DK, **Valley TS**, Miller M, Manojlovich M, Watson SR, McLellan P, Pope C, Hyzy RC, Iwashyna TJ. ICU team composition and its association with ABCDE implementation in a quality collaborative. *Journal of Critical Care*. 2017; 44:1-6. PMID: 28978488
15. **Valley TS**, Nallamotheu BK, Heung M, Iwashyna TJ, Cooke CR. Hospital variation in renal-replacement therapy for sepsis in the United States. *Critical Care Medicine*. 2018; 46(2): e158-e165. PMID: 29206766.
16. Admon A, Gupta A, Williams M, **Valley TS**, Sjoding MW, Wiener RS, Cooke CR. Appraising

the evidence supporting Choosing Wisely recommendations. *Journal of Hospital Medicine*. 2018. [Epub ahead of print]. PMID: 29694449.

17. Bailoor K, **Valley T**, Perumalswami C, Shuman AG, DeVries R, Zahuranec DB. How acceptable is paternalism? A survey-based study of clinician and non-clinician opinions on paternalistic decision-making. *AJOB Empirical Bioethics*. 2018; 1-8. [Epub ahead of print]. PMID: 29630457.

Abstracts and Posters

1. **Valley TS**, Vannoy L, Rubin BK. Erdosteine but not guaifenesin reduces mucus hypersecretion and increases ciliary transport in the inflamed trachea. Poster presentation at the 2007 American Thoracic Society International Conference, San Francisco, California. May 2007
2. Strowd L, Pillsbury D, Kyzima J, **Valley TS**, Rubin BK. Dysphagia dietary guidelines and the rheology of nutritional feeds and barium test feeds. Poster presentation at CHEST 2007, Chicago, Illinois. October 2007
3. **Valley TS**, Lopez B, Avila C, Stamm S, Hebert K. The prevalence of depression on low socioeconomic status minority heart failure patients. Poster presentation at 2009 University of Miami Cardiovascular Research Symposium, Miami, Florida, March 2009
4. **Valley TS**, Sjoding MW, Ryan AM, Iwashyna TJ, Cooke CR. ICU admission reduces mortality in marginal patients with pneumonia. Oral presentation at the 2015 American Thoracic Society International Conference, Denver, Colorado, May 2015
5. **Valley TS**, Nallamotheu BK, Heung M, Iwashyna TJ, Cooke CR. Hospital variation in acute hemodialysis use for sepsis in the U.S. Poster discussion at the 2016 American Thoracic Society International Conference, San Francisco, California, May 2016
6. Nathani N, Co I, **Valley TS**, Sisson T. Airway management outcomes from an academic pulmonary & critical care medicine fellowship. Poster discussion at the 2016 American Thoracic Society International Conference, San Francisco, California, May 2016
7. **Valley TS**, Sjoding MW, Ryan AM, Iwashyna TJ, Cooke CR. ICU admission does not confer a survival benefit for COPD, HF, or MI. Oral presentation at the 2016 American Thoracic Society International Conference, San Francisco, California, May 2016
8. Admon A, Gupta A, Williams M, **Valley TS**, Sjoding MW, Wiener RS, Cooke CR. Appraising the evidence supporting Choosing Wisely recommendations. Oral presentation at the 2016 AcademyHealth Annual Research Meeting, Boston, Massachusetts, June 2016
9. **Valley TS**, Prescott HC, Wunsch H, Iwashyna TJ, Cooke CR. Hospital ICU admission patterns for pneumonia are stable from year to year. Poster discussion at the 2017 American Thoracic Society International Conference, Washington, D.C., May 2017.
10. Bailoor K, **Valley TS**, Perumalswami C, Shuman A, de Vries R, Zahuranec DB. How acceptable is paternalism? Comparison of clinicians and lay public attitudes after life-threatening stroke. Oral presentation at the 2017 American Society for Bioethics and Humanities Annual Meeting, Kansas City, Missouri, October 2017.
11. **Valley TS**, Scherer AM, Knaus M, Zikmund-Fisher BJ, Fagerlin A. Communication strategies to improve influenza vaccination rates differ by prior vaccination status. Oral presentation at the 2017 Society for Medical Decision Making North American Meeting, Pittsburgh, Pennsylvania, October 2017.
12. Wayne M, **Valley TS**, Cooke CR, Sjoding MW. Acute respiratory distress syndrome prediction and identification tools: a systematic review. Poster presentation at the 2018 American Thoracic Society International Conference, San Diego, California, May 2018.

13. **Valley TS**, Miller J, Costa DK, Chen E, Lipman K, Iwashyna TJ, Fagerlin A. Emotional experiences of family members of ICU patients: a qualitative study. Poster discussion at the 2018 American Thoracic Society International Conference, San Diego, California, May 2018.
14. **Valley TS**, Admon AJ, Zahuranec DB, Garland A, Fagerlin A, Iwashyna TJ. Clinical estimates of patient benefit from ICU care are influenced by logically irrelevant factors: a randomized study. Poster discussion at the 2018 American Thoracic Society International Conference, San Diego, California, May 2018.

Non-Peer-Reviewed Publications

1. **Valley TS**, Cooke CR. Who needs to be in an ICU? It's hard for doctors to tell. *The Conversation*. April 1, 2016. Accessed July 1, 2016. <https://theconversation.com/who-needs-to-be-in-an-icu-its-hard-for-doctors-to-tell-56728>.