

**The Faculty of Medicine of Harvard University  
Curriculum Vitae**

**Date Prepared:** May 31, 2022  
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**Work Email:** cworsham@mgh.harvard.edu  
**Place of Birth:** Washington, D.C.

**Education:**

2005-2009	B.S. (with Honors)	Statistics	University of Michigan
2009-2013	M.D.	Medicine	Dartmouth Geisel School of Medicine
06/2019-05/2022	M.P.H.	Quantitative Methods	Harvard T.H. Chan School of Public Health

**Postdoctoral Training:**

07/13-06/14	Intern	Internal Medicine	Boston Medical Center
07/14-06/16	Resident	Internal Medicine	Boston Medical Center
07/16-06/17	Chief Resident & Chief Resident in Quality and Safety	Internal Medicine	Boston Medical Center; VA Boston Healthcare; Boston University School of Medicine
07/17-06/20	Clinical Fellow	Department of Medicine, Pulmonary/Critical Care	Massachusetts General Hospital; Beth Israel Deaconess Medical Center; Harvard Medical School

09/19-08/21	Research Fellow	Department of Health Care Policy	Harvard Medical School
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**Faculty Academic Appointments:**

07/16-06/17	Instructor	Medicine	Boston University School of Medicine
07/17-06/20	Clinical and Research Fellow	Medicine	Harvard Medical School
07/20-06/21	Graduate Assistant	Mass General Hospital Pulmonary & Critical Care Medicine	Harvard Medical School
07/21-	Instructor in Medicine	Mass General Hospital Pulmonary & Critical Care Medicine	Harvard Medical School
09/21-	Teaching Associate	Department of Health Care Policy	Harvard Medical School

**Appointments at Hospitals/Affiliated Institutions:**

07/16-06/19	Attending Physician	Internal Medicine	Boston Medical Center
07/16-06/20	Attending Physician	Internal Medicine	VA Boston Healthcare
07/17-06/20	Fellow	Pulmonary & Critical Care Medicine	Massachusetts General Hospital
07/17-06/20	Fellow	Pulmonary & Critical Care Medicine	Beth-Israel Deaconess Medical Center
07/19-	Attending Physician	Critical Care Medicine	Newton-Wellesley Hospital
04/20-	Assistant in Medicine	Pulmonary & Critical Care Medicine	Massachusetts General Hospital

**Other Professional Positions:**

2016-2017	Advisor, Medical Education	Institute for Healthcare Improvement
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**Major Administrative Leadership Positions:**

**National**

2016	IHI National Forum Planning Committee	Institute for Healthcare Improvement
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**Committee Service:**

**Local**

2014-2016	Housestaff Quality Improvement Council	Boston Medical Center
2015-2016	Dept. of Medicine Inpatient Leadership Group	Boston Medical Center
2015-2016	Clinical Learning Environment Review (CLER) Committee	Boston Medical Center
2016-2017	Hospital Acquired Infection Committee	VA Boston Healthcare
2016-2017	Inpatient Flow Committee	VA Boston Healthcare
	2016-2017	
2016-2017	Systems Improvement in the Medical Service Committee	VA Boston Healthcare
2021-	Committee on Diversity, Equity, and Inclusion	MGH Division of Pulmonary and Critical Care Medicine

**National**

2016-2017	Executive Committee	Committee of Interns and Residents
2021-	Co-Chair, Early Career Working Group, Behavioral Science & Health Services Research Assembly	American Thoracic Society

**Professional Societies:**

2014-	Massachusetts Medical Society
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	2014-2016	Committee on Bylaws
	2015-2016	Secretary, Resident & Fellow Section
	2016-2017	Chair, Resident & Fellow Section
	2017-	Delegate, Suffolk District; Task Force on Health Insurance Coverage
	2019-2020	Trustee, Board of Trustees
2015-	American Medical Association	
	2015-2020	Delegate (Massachusetts) to Resident & Fellow Section
	2015-2016	Sectional Delegate to House of Delegates (Resident and Fellow Section)
	2020-	Delegate to House of Delegates (American Thoracic Society)
2015-	Alpha Omega Alpha Honor Medical Society	
2015-	American Thoracic Society	
	2021-	Co-Chair, BSHSR Early-Career Working Group
2016-	American College of Physicians	

**Editorial Activities:**

**Ad hoc Reviewer**

*Federal Practitioner*

*Sleep Medicine*

*Lancet Digital Health*

*Healthcare: The Journal of Delivery Science and Innovation*

*Annals of the American Thoracic Society*

*Annals of Internal Medicine*

*Neurology*

*JAMA Network Open*

*Journal of Intensive Care*

**Other Editorial Roles**

2017-2018 Editorial Fellow JAMA Internal Medicine

**Honors and Prizes:**

2006	Intramural Research Training Award	National Institutes of Health	Awarded competitive funding for summer research at the National Institute of Child Health and Human Development
2009	Excellence and Outstanding Academic Achievement in Statistics	University of Michigan	Awarded for Honors Thesis: "A stochastic model of retinal development in zebrafish"
2010	Scholarship for Summer Research	Dartmouth Geisel School of Medicine	Awarded for summer research at the National Institute on Minority Health and Health Disparities
2013	Urban Health Scholar Award	Dartmouth Geisel School of Medicine	Award for study, immersion, and advocacy in Urban Health
2014	Recognition for Teamwork and Collaboration with Nursing	VA Boston Healthcare	
2015	Alpha Omega Alpha Honor Medical Society	Boston University Chapter	Inducted into AOA after nomination by medical students and confirmation by faculty

2015	Scholarship for Academy for Emerging Leaders in Patient Safety	Committee of Interns and Residents	Awarded competitive scholarship for a week-long training in patient safety
2017	Appreciation for Advocacy, Leadership, and Service	CIR/SEIU Healthcare National Executive Committee	
2017	Recognition for Outstanding Leadership	Massachusetts Medical Society	

**Report of Funded and Unfunded Projects**

**Past**

- 2021                    Use of Prescription Opioids Following Surgery and Associated Adverse Patient Outcomes in Older Adults  
NIH (NIA); R56AG059620  
Co-Investigator (PI: Jena)  
The opioid epidemic has increasingly affected older adults, a group that is particularly vulnerable to the adverse effects associated with opioid use. A common but little understood setting for new opioid prescriptions is following surgery, a time when older adults are particularly vulnerable to adverse effects of opioids given the fragmented nature of post-surgical care and patients’ clinical fragility post-operatively. The proposed research will improve our understanding of the effects of opioid prescribing following surgery on long-term opioid use and opioid-related adverse outcomes in older adults, with a specific focus on using quasi-experimental research methods to demonstrate how individual surgeons and pain management techniques such as regional anesthesia may influence chronic prescription opioid use and opioid-related adverse outcomes following surgery.
- 2024                    Prescribing of opioids at hospital discharge and associated adverse patient outcomes  
AHRQ; R01HS026753  
Co-Investigator (PI: Jena)  
Opioid prescribing rates have quadrupled in the United States over the past 25 years, with large effects on the older Medicare population, among whom hospitalization rates for opioid overdoses have grown over five-fold since 1993. An underappreciated potential avenue through which new opioid use begins among older Americans is after hospitalization for non-surgical,

general medical conditions, which comprise nearly two-thirds of all hospitalizations in the US. The proposed grant will provide national estimates of the frequency of opioid prescribing at hospital discharge for Medicare beneficiaries hospitalized with general medical conditions, study the relationship of prescribing with adverse patient outcomes and long-term opioid use, and improve our understanding of the role of specific providers - both hospitals and physicians - in driving opioid prescribing at the time of hospital discharge.

### **Training Grants and Mentored Trainee Grants**

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|------|--|
| 2016 | <p>Quality Improvement Grant<br/>         Boston Medical Center<br/>         Investigator (PI: Worsham)<br/>         Competitive grant supporting Intensive Care Unit infection control improvement project with the goal to reduce hospital acquired infections</p> |
| 2017 | <p>Centers for Expertise in Health Policy and Management Grant<br/>         Partners Healthcare<br/>         Other (PI: Worsham)<br/>         Competitive grant supporting participation in the Academy Health National Health Policy Conference</p>                 |
| 2020 | <p>Centers for Expertise in Health Policy and Management Grant<br/>         Partners Healthcare<br/>         Other (PI: Worsham)<br/>         Competitive grant funding Value Based Health Care Delivery mini-course at Harvard Business School</p>                  |

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses:**

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|-----------|--|--|
| 2015-2016 | <p>Quality Improvement Curriculum<br/>         Small group leader, QI simulation leader<br/>         for 1st and 3rd year medical students</p> | <p>Boston University School of Medicine<br/>         2 hours / week</p>                                |
| 2016-2017 | <p>Internal Medicine Clerkship<br/>         3rd year medical students</p>  | <p>Boston University Medical Center; VA<br/>         Boston Healthcare<br/>         2 hours / week</p> |

2021-2021	Essentials of the Profession II Final Presentations 4th Year Medical Students	Harvard Medical School 4 hours / year
2022-	Essentials of the Profession I 1st Year Medical Students	Harvard Medical School 5 hours / week. Small group leader for health policy

**Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):**

2016-2017	Morning Report Residents	Boston University Internal Medicine 3 hours / week
2016-2017	Patient Safety Case Conference Residents	VA Boston Healthcare 2 hours / week
2017-2019	Critical Care Morning Conference Residents	MGH and BIDMC 10 hours / year
2018-2018	Basics of Pulmonary Function Testing Residents	Mass General Hospital 2 hours / year
2019	Critical Care Ultrasound Residents	MGH and BIDMC 5 hours / year

**Other Mentored Trainees and Faculty:**

2019-	Nathan Varady, MD MBA / Orthopedic Surgery Resident, Hospital for Special Surgery Mentored and supervised research projects while he was a medical student at Harvard Medical School and a resident physician at the Hospital for Special Surgery Original research publication studying non-financial conflicts of interest and "spin" in reporting of research
2019-2021	Jaemin Woo, BA / PhD Candidate (Economics), Brown University Mentored, tutored, and supervised research while he was a research assistant at HMS-HCP Several original research publications published in top medical journals
2021-2021	David Shaw / Undergraduate, Harvard University Mentored, tutored, and supervised research while he was a summer intern at



HMS-HCP while an undergraduate at Harvard  
Research manuscripts currently under review

2021- Charles Bray, BS / Research Assistant, Harvard Medical School  
Mentored, tutored, and supervised research while a research assistant at HMS-HCP  
Several original research publications published in top medical journals

**Formal Teaching of Peers (e.g., CME and other continuing education courses):**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

2016-2017	Medical Forum VA Boston Healthcare	6 one-hour clinical case conferences with expert discussants Boston, MA
2016-2017	Morbidity & Mortality VA Boston Healthcare	2 one-hour quality and safety case reviews Boston, MA
2017-	Pulmonary & Critical Care Grand Rounds MGH and BIDMC	6 one-hour clinical case conferences Boston, MA

**Local Invited Presentations:**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

2015	“Evolution of Sepsis: Incorporating New Research Into the History of a Disease” / Resident Lecture Boston University Internal Medicine, Boston, MA
2018	“Critical Care Ultrasound” / Hands-on workshop Principles of Critical Medicine for Non-Intensive Care Specialists, Boston, MA
2019	“A Breathtaking Case of Vision Loss and Mental Status Changes”/ Invited Lecture MGH Pulmonary & Critical Care 2019 Course, Boston, MA
2020	“Natural Experiments in Big Data” / Invited Lecture Brigham & Women’s Hospital Center for Evidence-Based Imaging, Boston, MA

- 2021 Natural Experiments in Clinical Outcomes Research / Medical Grand Rounds  
Department of Medicine, VA Boston Healthcare
- 2021 Gas Exchange / Resident Education  
MGH Department of Medicine
- 2021 Natural Experiments in Clinical Medicine / Invited Lecture  
Beth Israel Deaconess Center for Healthcare Delivery Science

**Report of Regional, National and International Invited Teaching and Presentations**

*Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.*

**Regional**

- 2019 Course Faculty, “HST 953: Collaborative Data Science in Medicine”  
Massachusetts Institute of Technology
- 2020 Invited Lecture, “Advocacy Through Organized Medicine”  
Boston University School of Medicine, Boston, MA
- 2020 Invited Lecture, “Advocacy Through Writing for the Lay Press”  
Boston University School of Medicine, Boston, MA

**National**

- 2015 C Worsham co-presentation with D Berwick, L Swamy. “Institute for Healthcare Improvement Open School Congress: Quality Improvement Virtual Practicum / 4-hour Workshop  
Institute for Healthcare Improvement 27th National Forum, Orlando, FL
- 2015 C Worsham co-presentation with J Moses, K Weiss, K Mate, A Buchert, G Butler. “A CLER Aim: Leveraging Trainees to Improve Healthcare” / Lecture  
Institute for Healthcare Improvement 27th National Forum, Orlando, FL
- 2016 C Worsham co-presentation with A Anderson, A Compton-Phillips, K Meisinger, L Swamy. “Formal Debate: Patients Are Best Cared for with Virtual, On-Demand Medicine” / Debate  
Institute for Healthcare Improvement 28th National Forum, Orlando, FL
- 2019 C Worsham co-presentation with J Richards, K Johansson, A Gallo de Morales. “Using Technology to Your Advantage in Academic Medicine” /

Webinar  
American Thoracic Society 2019

- 2019 C Worsham co-presentation with N Stewart, K Johannson, S Gandotra, V Kaul. "Using Technology to Your Advantage in Academic Medicine" / Presentation & Panel  
American Thoracic Society 2019, Dallas, TX
- 2021 A Day in the Life of Different Physicians: Health Care Policy Research / Lecture  
PRIMES Mentorship Program, New York, NY
- 2021 Axios Expert Voices: The Future of Climate Change and Lung Health / Roundtable Panel / Expert Panelist  
Web (Axios)
- 2022 Breathe Easy: Caring for Patients in Law Enforcement Custody / Podcast / Host and Moderator  
Online (American Thoracic Society)
- 2022 Perioperative Pain Management: Emphasizing the Role of Multi-Modal Analgesia / Invited Lecture  
Online (Alosa Health for Pennsylvania Patient Safety Authority)

## **International**

- 2020- Training to Teach: Egyptian Health Care System Educators / Online Course / Instructor & Facilitator  
Online (via HMS Office of External Education), 2020

## **Report of Clinical Activities and Innovations**

### **Current Licensure and Certification:**

- 2013 BLS/ACLS Certification, American Heart Association
- 2015 Institute for Healthcare Improvement Basic Certificate in Quality & Safety
- 2015 Institute for Healthcare Improvement Change Agent Network Scholar Certificate
- 2016 DEA Certificate
- 2016 Internal Medicine, American Board of Internal Medicine

2016	Massachusetts Controlled Substance Certificate
2016	Massachusetts Full Medical License
2020	Pulmonary Disease, American Board of Internal Medicine
2021	Critical Care Medicine, American Board of Internal Medicine

**Practice Activities:**

2016-2017	Medical Service Attending	Boston Medical Center	240 hours / year
2016-2017	Medical Service Attending	VA Boston Healthcare	240 hours / year
2016-2020	Nocturnist	VA Boston Healthcare	120 hours / year
2020-	Critical Care Service Attending	Massachusetts General Hospital	120 hours / year
2020-	Overnight Intensivist	Newton-Wellesley Hospital	60 hours / year

**Report of Teaching and Education Innovations**

Novel Quality & Safety Graduate Medical Education (2018)	As a Chief Resident in Quality and Safety, developed two teaching tools to teach core principles of health care quality improvement and patient safety to medical residents and students. The 60-Minute Root Cause Analysis helps teach principles of sentinel event response, and the Quality Improvement Simulator is a longer team exercise which gives participants simulated experience with plan-do-study-act cycles for improvement. Both have been published on MedEdPORTAL and have been adopted and modified in dozens of teaching curricula around the world.
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**Report of Education of Patients and Service to the Community**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

**Activities**

2017-2019	Massachusetts Medical Society National advocacy, advising Sen. Warren, Sen. Markey, Rep. Capuano, Rep. Kennedy, Rep. Pressley and staff on policy reform
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- 2021- PRIMES Mentorship Program  
Provide longitudinal, structured, individualized mentorship to a pre-medical student from an under-represented minority in medicine background.
- 2021- Impact Advisory Group  
Asked by the City of Boston to serve on an impact advisory group to plan for construction of life sciences laboratories in Boston

**Educational Material for Patients and the Lay Community:**

***Books, monographs, articles and presentations in other media***

2016	“Opinion: Let’s Talk About Residents’ Hours—And Their Scut’ Work Too.”	Op Ed	CommonHealth: Reform and Reality. Boston NPR. 2016 February 16. Web. <a href="https://www.wbur.org/commonhealth/2016/02/16/residents-hours-scut-work">https://www.wbur.org/commonhealth/2016/02/16/residents-hours-scut-work</a>
2017	“Dear Tom Price: As you pursue Medicaid changes, remember your roots”	Op Ed	STAT News. 2017 February 27. Web. <a href="https://www.statnews.com/2017/02/27/tom-price-medicaid-changes/">https://www.statnews.com/2017/02/27/tom-price-medicaid-changes/</a>
2017	“President Trump’s immigration ban will decrease veterans’ access to medical care”	Op Ed	STAT News. 2017 June 13. Web. <a href="https://www.statnews.com/2017/06/13/veterans-trump-immigration-ban/">https://www.statnews.com/2017/06/13/veterans-trump-immigration-ban/</a>
2017	"Blood Pressure Measurement: Who performs it, how useful is it, and why did medical students recently fail the AMA Blood Pressure Check Challenge?"	Forum Moderator	American Medical Association Integrated Health Model Initiative. Web.
2018	“Digital Health and Chronic Disease Management”	Forum Moderator	American Medical Association Integrated

			Health Model Initiative. Web.
2018	“Why Doctors Shouldn’t Dismiss the Apple Watch’s New ECG App”	Op Ed	Harvard Business Review. <a href="https://hbr.org/2018/10/why-doctors-shouldnt-dismiss-the-apple-watches-new-ecg-app">https://hbr.org/2018/10/why-doctors-shouldnt-dismiss-the-apple-watches-new-ecg-app</a>
2019	“The Art of Evidence-Based Medicine”	Op Ed	Harvard Business Review. <a href="https://hbr.org/2019/01/the-art-of-evidence-based-medicine">https://hbr.org/2019/01/the-art-of-evidence-based-medicine</a>
2020	“How Much Does Voting Spread Viruses?”	Op Ed	New York Times. <a href="https://www.nytimes.com/2020/03/17/upshot/voting-coronavirus-risk.html">https://www.nytimes.com/2020/03/17/upshot/voting-coronavirus-risk.html</a>
2020	“Where is Big Data when we need it most?”	Op Ed	The Hill. <a href="https://thehill.com/opinion/technology/494124-where-is-big-data-when-we-need-it-the-most">https://thehill.com/opinion/technology/494124-where-is-big-data-when-we-need-it-the-most</a>
2020	“What Coronavirus Researchers Can Learn From Economists”	Op Ed	New York Times. <a href="https://www.nytimes.com/2020/06/30/upshot/coronavirus-economists-dexamethasone.html">https://www.nytimes.com/2020/06/30/upshot/coronavirus-economists-dexamethasone.html</a>
2020	“If we want to beat covid-19, we need to get a lot better at vaccinating people”	Op Ed	Washington Post. <a href="https://www.washingtonpost.com/opinions/2020/07/07/if-we-want-beat-covid-19-we-need-get-lot-better-vaccinating-people/">https://www.washingtonpost.com/opinions/2020/07/07/if-we-want-beat-covid-19-we-need-get-lot-better-vaccinating-people/</a>
2020	“Doctor Radio: Pulmonology”	Radio Interview	SiriusXM Radio

2020	“Make Flu Shots Mandatory for School Openings”	Op Ed	Bloomberg. <a href="https://www.bloomberg.com/opinion/articles/2020-08-05/make-flu-shots-mandatory-for-school-openings">https://www.bloomberg.com/opinion/articles/2020-08-05/make-flu-shots-mandatory-for-school-openings</a>
2020	“The curious link between kids’ birthdays and their getting the flu vaccine”	Op Ed	STAT. <a href="https://www.statnews.com/2020/07/31/curious-link-kids-birthdays-and-getting-flu-vaccine/">https://www.statnews.com/2020/07/31/curious-link-kids-birthdays-and-getting-flu-vaccine/</a>
2020	“Doctor Radio: On Call for Kids”	Radio Interview	SiriusXM Radio
2020	“Twitter verified our medical expertise, but we are powerless to stop Covid-19 misinformation”	Op Ed	STAT. <a href="https://www.statnews.com/2020/10/15/twitter-let-verified-medical-experts-flag-covid-19-misinformation/">https://www.statnews.com/2020/10/15/twitter-let-verified-medical-experts-flag-covid-19-misinformation/</a>
2021	"Why Are Kids With Summer Birthdays More Likely to Get the Flu?"	Podcast	Freakonomics, M.D. (Freakonomics Radio/Stitcher)
2021	"Insurers should cover energy costs for prescribed medical equipment"	Op Ed	STAT. <a href="https://www.statnews.com/2021/10/19/insurers-cover-cost-electricity-prescribed-medical-equipment/">https://www.statnews.com/2021/10/19/insurers-cover-cost-electricity-prescribed-medical-equipment/</a>
2021	Facts Alone Aren’t Going to Win Over the Unvaccinated. This Might.	Op Ed	New York Times. <a href="https://www.nytimes.com/2021/12/21/opinion/vaccine-hesitancy-covid-omicron.html">https://www.nytimes.com/2021/12/21/opinion/vaccine-hesitancy-covid-omicron.html</a>
2022	The successful failures’ of Apollo 13	Op Ed	STAT. <a href="https://www.statnews.com/2022/04/11/successful-">https://www.statnews.com/2022/04/11/successful-</a>

and Covid-19  
vaccination

failures-apollo-13-covid-  
19-vaccination/

2022

Can Fear Be Good  
Medicine?

Podcast

Freakonomics, M.D.  
(Freakonomics  
Radio/Stitcher)

### **Report of Scholarship**

ORCID: 0000-0002-1611-6871

\* Co-author, \*\* Mentee

### **Peer-Reviewed Scholarship in print or other media:**

#### **Research Investigations**

1. **Worsham CM**, Martin ST, Nouraie SM, Cohen RT, Klings ES. Clinical and laboratory findings associated with sleep disordered breathing in sickle cell disease. *Am J Hematol.* 2017 Dec;92(12):E649-E651. PMID: 28833466, <https://doi.org/10.1002/ajh.24892>
2. Zimerman A, **Worsham C**, Woo J, Jena AB. The need for speed: observational study of physician driving behaviors. *BMJ.* 2019 Dec 18;367:l6354. PMID: 31852682, PMCID: PMC7191945, <https://doi.org/10.1136/bmj.l6354>
3. **Worsham C**, Woo J, Jena AB. Birth Month and Influenza Vaccination in Children. *N Engl J Med.* 2020 Jul 9;383(2):184-185. PMID: 32640138, PMCID: PMC7386461, <https://doi.org/10.1056/NEJMc2005928>
4. Maley JH, **Worsham CM**, Landon BE, Stevens JP. Association between Palliative Care and End-of-Life Resource Use for Older Adults Hospitalized with Septic Shock. *Ann Am Thorac Soc.* 2020 Aug;17(8):974-979. PMID: 32275846, PMCID: PMC7531025, <https://doi.org/10.1513/AnnalsATS.202001-038OC>
5. Zou E, **Worsham C**, Miller NH, Molitor D, Reif J, Jena AB. Emergency Visits for Thunderstorm-Related Respiratory Illnesses Among Older Adults. *JAMA Intern Med.* 2020 Sep 1;180(9):1248-1250. PMID: 32777000, PMCID: PMC7418045, <https://doi.org/10.1001/jamainternmed.2020.1672>
6. Shoults B, Barber M, Millham L, Mulla M, Nanji N, Steele G, Peck T, Smithedajkul P, **Worsham C**, Currier P, Raphaely RA. Feasibility and Limitations of Proning Protocol for Nonintubated Patients With COVID-19. *J Patient Exp.* 2021;8:2374373520981486. PMID: 34179358, PMCID: PMC8205337, <https://doi.org/10.1177/2374373520981486>



7. Varady NH, **Worsham CM**, Jena AB. Analysis of institutional conflict of interest and bias in research findings and reporting. *Healthc (Amst)*. 2021 Mar;9(1):100515. PMID: 33517178, [https://doi.org/S2213-0764\(20\)30114-7](https://doi.org/S2213-0764(20)30114-7)
8. **Worsham CM**, Woo J, Jena AB, Barnett ML. Adverse Events And Emergency Department Opioid Prescriptions In Adolescents. *Health Aff (Millwood)*. 2021 Jun;40(6):970-978. PMID: 34097510, PMCID: PMC8654605, <https://doi.org/10.1377/hlthaff.2020.01762>
9. Kahn PA, **Worsham CM**, Berland G. Characterization of Prescription Patterns and Estimated Costs for Use of Oxygen Concentrators for Home Oxygen Therapy in the US. *JAMA Netw Open*. 2021 Oct 1;4(10):e2129967. PMID: 34665242, PMCID: PMC8527353, <https://doi.org/10.1001/jamanetworkopen.2021.29967>
10. **Worsham CM**, Woo J, Zimmerman A, Bray CF, Jena AB. Association of Maternal Cervical Disease With Human Papillomavirus Vaccination Among Offspring. *JAMA Netw Open*. 2021 Dec 1;4(12):e2134566. PMID: 34902041, PMCID: PMC8669541, <https://doi.org/10.1001/jamanetworkopen.2021.34566>
11. **Worsham C**, Woo J, Zimmerman A, Bray CF, Jena AB. An Empirical Assessment of Reviewer 2. *Inquiry*. 2022 Jan-Dec;59:469580221090393. PMID: 35506674, PMCID: PMC9073107, <https://doi.org/10.1177/00469580221090393>
12. **Worsham CM**, Woo J, Kearney MJ, Bray CF, Jena AB. Carbon Monoxide Poisoning during Major U.S. Power Outages. *N Engl J Med*. 2022 Jan 13;386(2):191-192. PMID: 35020991, <https://doi.org/10.1056/NEJMc2113554>

#### **Other peer-reviewed scholarship**

1. **Worsham C**, Ackrivo J, Breu AC. Prompt Extubation After Intensive Care Unit Procedures: A Teachable Moment. *JAMA Intern Med*. 2015 Sep;175(9):1447-1448. PMID: 26193488, <https://doi.org/10.1001/jamainternmed.2015.3656>
2. Ganatra RB, Swamy L, **Worsham C**, Frosch Z, Breu AC. A Mission for Graduate Medical Education at VA. *Fed Pract*. 2017 Oct;34(10):12-15. PMID: 30766234, PMCID: PMC6370407
3. Roy PJ, **Worsham C**. Treating the "Wake-up Call" of Alcohol Use: A Teachable Moment. *JAMA Intern Med*. 2017 Dec 1;177(12):1849-1850. PMID: 29059276, <https://doi.org/10.1001/jamainternmed.2017.5502>

4. **Worsham C**, Swamy L, Gilad A, Abbott J. Quality Improvement Virtual Practicum: The QI Simulator. *MedEdPORTAL*. 2018 Jan 19;14:10670. PMID: 30800870, PMCID: PMC6342354, [https://doi.org/10.15766/mep\\_2374-8265.10670](https://doi.org/10.15766/mep_2374-8265.10670)
5. Swamy L, **Worsham C**, Bialas MJ, Wertz C, Thornton D, Breu A, Ronan M. The 60-Minute Root Cause Analysis: A Workshop to Engage Interdisciplinary Clinicians in Quality Improvement. *MedEdPORTAL*. 2018 Feb 15;14:10685. PMID: 30800885, PMCID: PMC6342415, [https://doi.org/10.15766/mep\\_2374-8265.10685](https://doi.org/10.15766/mep_2374-8265.10685)
6. Sclafani A, **Worsham CM**, McNeill J, Anandaiah A. Advances in Interstitial Lung Disease Genetics. *Am J Respir Crit Care Med*. 2019 Jul 15;200(2):247-249. PMID: 31014082, <https://doi.org/10.1164/rccm.201902-0471RR>
7. **Worsham CM**, Barnett ML. The Role of the Household in Prescription Opioid Safety. *JAMA Netw Open*. 2020 Mar 2;3(3):e201108. PMID: 32219402, <https://doi.org/10.1001/jamanetworkopen.2020.1108>
8. **Worsham CM**, Banzett RB, Schwartzstein RM. Air Hunger and Psychological Trauma in Ventilated Patients with COVID-19. An Urgent Problem. *Ann Am Thorac Soc*. 2020 Aug;17(8):926-927. PMID: 32501114, PMCID: PMC7393786, <https://doi.org/10.1513/AnnalsATS.202004-322VP>
9. **Worsham CM**, Banzett RB, Schwartzstein RM. Dyspnea, Acute Respiratory Failure, Psychological Trauma, and Post-ICU Mental Health: A Caution and a Call for Research. *Chest*. 2021 Feb;159(2):749-756. PMID: 33011205, PMCID: PMC7528739, [https://doi.org/S0012-3692\(20\)34844-3](https://doi.org/S0012-3692(20)34844-3)

#### **Non-peer reviewed scholarship in print or other media:**

##### **Letters to the Editor**

1. **Worsham C**, Jena AB. More on Carbon Monoxide Poisoning during Major U.S. Power Outages. Reply. *N Engl J Med*. 2022 Apr 7;386(14):1387. PMID: 35388685, <https://doi.org/10.1056/NEJMc2201981>