

# Medical Education Outcomes Center

[outcomes.med.umn.edu](https://outcomes.med.umn.edu)

## Publications

Butler L, Rosenberg ME, Miller-Chang YM, Gauer JL, Melcher E, Olson APJ, Clark K. Impact of the Rural Physician Associate Program on Workforce Outcomes. *Fam Med*. 2021;53(10):864-870. <https://doi.org/10.22454/FamMed.2021.563022>.

Erayil SE, Lopez H, Shaughnessy M, Pogemiller H, Silva R, Olson APJ, Hendel-Paterson B, Walker P, Stauffer W. Global Is Local: Does Formal Resident Global Health Medical Education Improve Clinical Care in the United States? *Am J Trop Med Hyg*. 2021 Oct 25;tpmd210503. doi: 10.4269/ajtmh.21-0503. Epub ahead of print. PMID: 34695796.

Olson APJ, Rosenberg ME. From Nihilism to Opportunity: The Educational Potential of the Electronic Health Record. *Clin J Am Soc Nephrol*. 2020 Jul 1;15(7):917-919. doi: 10.2215/CJN.07260520. Epub 2020 Jun 23. PMID: 32579129; PMCID: PMC7341766.

Butler L, Rege M. Building an analytical model to predict workforce outcomes in medical education. *Issues in Information Systems*. 2020;21(2):229-237

Violato C, Gauer JL, Violato E, Patel D. A study of the validity of the new MCAT exam. *Acad Med*. 2019. 95(3): 396-400. [DOI:10.1097/ACM.0000000000003064]

Lim N, Sanchez O, Olson APJ. Impact on 30-d readmissions for cirrhotic patients with ascites after an educational intervention: A pilot study. *World Journal of Hepatology*. 2019;11(10):701-709. doi:10.4254/wjh.v11.i10.701.

Gauer JL, Jackson JB. The association between United States Medical Licensing Examination scores and clinical performance in medical students. *Adv Med Educ Pract*. 2019;10:209-216. [DOI:10.2147/AMEPS192011]

Gauer JL, van den Hoogenhof S, Rosenberg ME. Treating and Teaching: Using publicly available data to explore the relationships between student and patient evaluations of teaching hospitals. *Adv Med Educ Pract*. 2019;10:405-409. [doi: 10.2147/AMEPS192304]

Patel D, Gauer JL, Violato C. It's not just about the MCAT: Choosing medical students for admission to the University of Minnesota is a multi-step process. *Minnesota Medicine*. 2019;1:14-20.

Rosenberg M, Gauer JL, Smith B, Calhoun A, Olson AP, Melcher E. Building a Medical Education Outcomes Center. *JMIR Med Educ*. 2019;5(2):e14651. URL: <http://mededu.jmir.org/2019/2/e14651>. [DOI:10.2196/14651]

Gauer JL, Jackson JB. Relationships of demographic variables to USMLE physician licensing exam scores: A statistical analysis on five years of medical student data. *Adv Med Educ Pract*. 2018;9:39-44. [DOI:10.2147/AMEPS152684]

Rosenberg ME. An outcomes-based approach across the medical education continuum. *Trans Am Clin Climatol Assoc.* 2018;129:325-340.

Gauer JL, Jackson JB. Association between the Medical College Admission Test scores and Alpha Omega Alpha medical honors society membership. *Adv Med Educ Pract.* 2017;8:627-632. [DOI:[10.2147/AMEPS145839](https://doi.org/10.2147/AMEPS145839)]

Gauer JL, Jackson JB. The association of USMLE Step 1 and Step 2 CK scores with residency match specialty and location. *Med Educ Online.* 2017;22(1):1358579. [DOI:[10.1080/10872981.2017.1358579](https://doi.org/10.1080/10872981.2017.1358579)]

Gauer JL, Wolff JM, Jackson JB. Do MCAT scores predict USMLE scores? An analysis on 5 years of medical student data. *Med Educ Online.* 2016;21:31795. [DOI:[10.3402/meov21.31795](https://doi.org/10.3402/meov21.31795)]

## Presentations

Melcher E. The Medical Education Outcomes: Enabling data-driven medical education research and innovation. Poster presented at: Association of American Medical Colleges Information Technology in Academic Medicine Annual Conference; June 3, 2021; Online/Virtual.

Butler L. Impact of the Rural Physician Associate Program (RPAP) on Workforce Outcomes. Presented at Best Practices in Health Sciences Education: May 5, 2021; Online/Virtual.

Gauer JL, Cabrera AK, Carr TM, Cole D, Dale E, Martin LaPlant E, Violato C. The Diversity Engagement Survey: A Survey of the Institutional Culture and Climate Relating to Diversity, Equity, and Inclusion. Presented at Best Practices in Health Sciences Education: May 5, 2021; Online/Virtual.

Miller-Chang, Y. Do subspecialty residency rotations enhance resident clinical knowledge? Presented at Best Practices in Health Sciences Education: May 5, 2021; Online/Virtual.

Olson APJ. If You Build It, Will They Come? Equipping Faculty to Participate in Outcomes-Based Medical Education Research at: Learn Serve Lead 2020: The AAMC Annual Meeting; November 13-17, 2020; Washington, D.C.

Butler L, Rege M. Building an analytical model to predict workforce outcomes in medical education. Presented at IACIS 2020 conference; Oct 8, 2020; Online/Virtual.

Olson APJ, Miller-Chang, Y, Gauer JL, Butler L. Help me with my statistics - STAT! A primer workshop for education researchers. Workshop presented at: Best Practices in Health Sciences Education: April 30, 2020; Minneapolis, MN.

Gauer JL, Melcher E, Rosenberg ME. Building a Medical Education Outcomes Center. Oral abstract presented at: The Generalists in Medical Education Annual Conference; November 7, 2019; Phoenix, AZ.

Rosenberg ME, Gauer JL, Melcher E. Building a Medical Education Outcomes Center. Oral abstract presented at: Association for Medical Education in Europe Annual Conference; August 2019; Vienna, Austria.

Gauer JL, Melcher E, Butler L, Dockendorf J, Resler E, Smith B, Olson APJ, Rosenberg ME. The Medical Education Outcomes Center. Poster presented at: Best Practices in Health Sciences Education; May 2, 2019; Minneapolis, MN.

Olson APJ, Gauer JL, Melcher E. Data-Driven Health Professions Education Research - How to Get Started. Workshop presented at: Best Practices in Health Sciences Education; May 2, 2019; Minneapolis, MN.

Gauer JL, Melcher E, Calhoun A, van den Hoogenhof S, Smith B, Violato C, Rosenberg ME. Building a Medical Education Outcomes Center. Oral abstract presented at: Association of American Medical Colleges Central Group on Educational Affairs Spring Conference; March 29, 2019; Grand Rapids, MI.

Melcher E. Medical Education Outcomes: Developing a Data Analytics Approach. Breakout session presented at: Association of American Medical Colleges Information Technology in Academic Medicine Annual Conference; June 7, 2018; Austin, TX.

Melcher E. Development of the Medical Education Outcomes Center. Presented at: University of Minnesota Analysts Group Meeting; May 17, 2018. Minneapolis, MN.

Gauer JL, van den Hoogenhof S, Rosenberg ME. Correlating student evaluations of clerkships with patient experiences of care: A preliminary foray into clinical outcomes-based evaluation. Oral abstract presented at: Best Practices in Health Sciences Education; May 3, 2018; Minneapolis, MN.

## MEOC in the news

Innovations in medical education - Elevating education to meet the needs of the future. Driven - The University of Minnesota Campaign. 2019;4.

Knox B. Faster, smarter, better: History informs the Medical School's revamped approach to teaching future doctors. University of Minnesota Medical School Medical Bulletin. 2018;15-19.

## Awards and recognition

Targeted and Tailored Education to Improve Clinical Outcomes, MEOC collaboration on this \$450K grant award from the M Health Fairview and University of Minnesota Medical School's Academic Investment Education Program (2020)

The Medical Education Outcomes Center: Operationalizing the Learning Health System, a \$750K grant award from the M Health Fairview and University of Minnesota Medical School's Academic Investment Education Program (2019)

Melcher E, Smith B, Gauer JL, Rosenberg ME. The Medical Education Outcomes Center. Association of American Medical Colleges Group on Information Resources Excellence Award Honorable Mention; 2019.

## MEOC acknowledgments

Nguyen WT, Cullen MJ, Kaizer AM, Randle D. Development of an abbreviated longitudinal approach for medical student learning in perioperative medicine: Teaching the perioperative surgical home. Under Review.