

A bridge from classroom to providing actual patient care: A study of the Regenstrief tEMR

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tEMR - THE TEACHING ELECTRONIC MEDICAL RECORD SYSTEM



The novel, scalable Regenstrief teaching electronic medical record (tEMR) platform contains a unique, large, anonymized patient database enabling health professions students to learn how to use health information technology (HIT) to best manage the complex issues presented by real-world patients. Credit: Regenstrief Institute

As electronic medical records (EMRs) are increasingly used across the United States, the next generation of physicians, nurses, social workers, pharmacists and other clinicians need to acquire new knowledge and

competencies related to use of EMRs early in their clinical education. But training is not routinely provided.

A new study presents the functions and application of the novel, scalable Regenstrief teaching electronic medical record (tEMR) platform which contains a unique, large, anonymized patient database enabling [health](#) professions students to learn how to use [health information technology](#) (HIT) to best manage the complex issues presented by real-world patients.

"HIPAA [Health Insurance Portability and Accountability Act of 1996] has restricted access to EMRs so, ironically, the more EMRs are used, the less access students have to patient data, but the more they need to know," said Regenstrief Institute Research Scientist Debra Litzelman, M.D., M.A., corresponding author of the new study and a professor of medicine at Indiana University School of Medicine. "Regenstrief tEMR offers detailed, anonymized data on complex patients as well as unique real-world functionality including patient sharing among care team members."

"Medical, nursing, [social work](#) and other clinical trainees who have early exposure to EMRs will think differently about patient care and about future EMR development because of that [early exposure](#). It creates a different mindset."

Regenstrief tEMR offers a realistic virtual patient care experience, which the study noted was especially helpful during the early months of the COVID pandemic when students' access to patients in health care settings was limited. The tEMR platform also enables and encourages interprofessional collaboration between learners pursuing different careers at diverse locations working at the same or different times.

Professional schools often have simulation centers teaching various skills

such as CPR, intubation or robotic surgery procedures which trainees need to learn before they are on the job. Similarly, Regenstrief tEMR provides real-life simulation which prepares individuals for the real-world health IT environments they will enter.

The Regenstrief tEMR was created by the Regenstrief Institute along with IU School of Medicine, Eskenazi Health and the American Medical Association (AMA). Since 2013, the Regenstrief tEMR has been used at 12 health profession educational institutions. More than 11,800 students have accessed the system.

"Regenstrief teaching electronic medical record (tEMR) platform: a novel tool for teaching and evaluating applied health information technology" is published in *JAMIA Open*. Co-authors in addition to Dr. Litzelman are Blaine Y. Takesue, M.D., of IU School of Medicine and Regenstrief Institute; William M. Tierney, M.D., of IU Fairbanks School of Public Health at IUPUI and IU School of Medicine; Peter J. Embí, M.D., and Burke W. Mamlin, M.D., of Regenstrief Institute and IU School of Medicine and Jeff Warvel of Regenstrief Institute.

"With the exponential growth of health-related data and the impact of health information technology (HIT) on work-life balance, it is critical for students to get early EHR skills practice and understand how EHRs work. The ultimate tEMR project aim is to create tools through which our students—future educators, administrators, practice leaders, and front-line physicians—can develop enough HIT savvy to influence how HIT should be used in health care rather than HIT dictating how health care is delivered," the study authors concluded.

More information: Blaine Y Takesue et al. Regenstrief teaching electronic medical record (tEMR) platform: a novel tool for teaching and evaluating applied health information technology, *JAMIA Open* (2021). [DOI: 10.1093/jamiaopen/ooab010](https://doi.org/10.1093/jamiaopen/ooab010)

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