“Development and evaluation of an EHR data quality assessment tool”

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We propose the development and evaluation of a novel methodology for assessing the quality and suitability of clinical data for secondary use in research. The broad purpose of this project is to enable the goals of a learning healthcare system, in which patient care generates new medical knowledge through the translation of clinical data into research findings. Specifically, this research aims to ensure the validity of retrospective observational research conducted with electronic health record data through the development, evaluation, and dissemination of a partially-automated guideline to allow clinical researchers to determine the quality and suitability of an EHR-derived dataset for use in a research study. This project will include 1) the creation and partial automation of a web-based platform to inform and assist users of 3x3 DQA, a guideline for EHR data quality assessment, and 2) a formal, scenario-based evaluation of the usefulness and usability of the tool as well as its impact on user confidence in data quality assessment.