WeChart - A Web Based Patient Charting Tool for Medical Documentation

Aditya Chouhan, University of Nebraska at Omaha
Joseph Forsythe, University of Nebraska at Omaha
Thanh Nguyen, University of Nebraska Medical Center
Sachin Pawaskar, University of Nebraska at Omaha

Available at: https://works.bepress.com/sachin-pawaskar/16/
A Web Based Patient Charting Tool for Medical Documentation

Patient charting is the process of keeping a complete record of a patient’s key clinical data and medical history, such as demographics, vital signs, diagnoses, medications, treatment plans, progress notes, problems, immunization dates, allergies, radiology images, and laboratory and test results. The information documented in patient’s medical record serves several purposes.

The process of patient charting and medical documentation is a vital skill for all allied health professionals. Medical errors represent a serious threat to patient safety and it is estimated to add millions to the global healthcare cost. Students are often expected to develop this skill during the clinical exposure phase of their education with minimal guidance. There are also concerns of erroneous documentation by students possibly resulting in increased risk medical errors for the patient and practitioner. For this reason, it is not uncommon for students to complete their clinical rotation with no charting experience.

The proposed solution is to develop a web based documentation tool with the essential components of an electronic medical record (EMR). Medical students will document their clinical experience safely without placing the actual medical record at risk. The training tool will have three panels Navigation, Documentation and Guidance panel with embedded logics, guiding the student through the chart to optimize their learning experience.

WeChart is built to assist medical students in learning how to fill out a patient’s chart without filling out the actual patient’s chart and possibly impacting the accuracy of the chart.

This application demonstrates the service learning motto which serves the community. It translates to meaningful, community-identified service and ensures that the patient document is not only secure but also error-free and cross-checked by valid medical practitioners.