

Stanford BMI205 Lecture 10/27/2010
The Electronic Health Record - Success or Failure?
An Evidence-Based Review
Henry Lowe MD

SUGGESTED READING BY TOPIC

IMPACT ON COST OF CARE

Himmelstein DU, Wright A, Woolhandler S. Hospital Computing and the Costs and Quality of Care: A National Study. *Am J Med.* 2010

Chaudhry B, Wang J, Wu S, et al. Systematic review: impact of health information technology on quality, efficiency, and costs of medical care. *Ann Intern Med.* 2006;144:742-752.

Sidorov J. It Ain't Necessarily So: The Electronic Health Record And The Unlikely Prospect Of Reducing Health Care Costs. *Health Aff (Millwood).* 2006;25:1079-1085.

Wang SJ, Middleton B, Prosser LA, et al. A cost-benefit analysis of electronic medical records in primary care. *Am J Med.* 2003;114:397-403.

CHRONIC DISEASE MANAGEMENT

O'Malley AS, Grossman JM, Cohen GR, Kemper NM, Pham HH. Are Electronic Medical Records Helpful for Care Coordination? Experiences of Physician Practices. *J Gen Intern Med.* 2009.

Bates DW. Getting in Step: Electronic Health Records and their Role in Care Coordination. *J Gen Intern Med.* 2010.

IMPACT ON QUALITY IMPROVEMENT

Poon EG, Wright A, Simon SR, et al. Relationship Between Use of Electronic Health Record Features and Health Care Quality: Results of a Statewide Survey. *Med Care.* 2010.

Amarasingham R, Plantinga L, Diener-West M, Gaskin DJ, Powe NR. Clinical information technologies and inpatient outcomes: a multiple hospital study. *Arch Intern Med.* 2009;169:108-114.

Friedberg MW, Coltin KL, Safran DG, Dresser M, Zaslavsky AM, Schneider EC. Associations between structural capabilities of primary care practices and performance on selected quality measures. *Ann Intern Med.* 2009;151:456-463.

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Kazley AS, Ozcan YA. Do hospitals with electronic medical records (EMRs) provide higher quality care?: an examination of three clinical conditions. *Med Care Res*
Linder JA, Ma J, Bates DW, Middleton B, Stafford RS. Electronic health record use and the quality of ambulatory care in the United States. *Arch Intern Med*. 2007;167:1400-140

Zhou L, Soran CS, Jenter CA, et al. The Relationship between Electronic Health Record Use and Quality of Care over Time. *J Am Med Inform Assoc*. 2009;16:457-464.

IMPACT ON MEDICAL ERRORS

Fischer SH, Tjia J, Field TS. Impact of health information technology interventions to improve medication laboratory monitoring for ambulatory patients: a systematic review. *J Am Med Inform Assoc*. 2010;17:631-636.

Boockvar KS, Livote EE, Goldstein N, Nebeker JR, Siu A, Fried T. Electronic health records and adverse drug events after patient transfer. *Qual Saf Health Care*. 2010.

Eslami S, de Keizer NF, Abu-Hanna A. The impact of computerized physician medication order entry in hospitalized patients--a systematic review. *Int J Med Inform*. 2008;77:365-376.

Devine EB, Hansen RN, Wilson-Norton JL, et al. The impact of computerized provider order entry on medication errors in a multispecialty group practice. *J Am Med Inform Assoc*. 2010;17:78-84.

Reckmann MH, Westbrook JI, Koh Y, Lo C, Day RO. Does computerized provider order entry reduce prescribing errors for hospital inpatients? A systematic review. *J Am Med Inform Assoc*. 2009;16:613-623.

Walsh KE, Landrigan CP, Adams WG, et al. Effect of computer order entry on prevention of serious medication errors in hospitalized children. *Pediatrics*. 2008;121:e421-e427.

MISC

Bonner LM, Simons CE, Parker LE, Yano EM, Kirchner JE. 'To take care of the patients': Qualitative analysis of Veterans Health Administration personnel experiences with a clinical informatics system. *Implement Sci*. 2010;5:63.