

Biomedical and Health Informatics Lecture Series

**Tuesday, January 25, 2011
12:00 - 12:50 p.m., Room E-216**

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“Computerized Practitioner Order Entry over the last decade: Progress and unsolved problems”

Over the last decade, CPOE has become more common but remains limited to a minority of U.S. hospitals and clinics. The software used is more mature, no longer regarded as experimental, and is often accompanied by commercial offerings for order set content, development tools, and content maintenance contracts.

CPOE user interfaces are remarkably similar between vendors, and have not dramatically departed from metaphors and screen designs used in early CPOE systems. They require hours or days of training before practitioners begin using them for patient care, and differ sufficiently between vendor so that practitioners must sometimes be trained separately on several systems if they practice in several hospitals. We know surprisingly little about how to best use CPOE tools to modify practitioner behavior using decision support tools; innovations developed over the last decades are not commonly available in commercial CPOE software.

CPOE then, is no longer new, but in need of renewal. Clever ideas and breakthroughs are overdue. Clinical, safety, and financial benefits can be achieved with CPOE (despite evidence they can also harm), but it is likely that much more benefit awaits us in the decade to come.

Dr. Payne is the Medical Director of UW Medicine IT Services, since 2000, and Clinical Associate Professor of Medicine, Health Services, and Biomedical & Health Informatics. He is Attending Physician in Medicine at the University of Washington Medical Center and Harborview Medical Center. He attended Stanford University, the University of Washington School of Medicine, completed his internal medicine residency at the University of Colorado, and completed a fellowship at Massachusetts General Hospital in the Harvard Medical Informatics Fellowship program. Prior to his current position, he led the installation of the Veterans Administration CPRS electronic medical record at VA Puget Sound in Seattle for which VA Puget Sound was awarded the 2000 Nicholas E. Davies CPR Recognition Award. He is on the Board of AMIA, the Editorial Board of the Journal of the American Medical Informatics Association, a fellow of the American College of Medical Informatics, the American College of Physicians and the Royal College of Physicians (Edinburgh). He organizes a seminar series titled Operating Clinical Computing Systems in a Medical Center and edited a book based on that series.