ABSTRACT:
Forty years of computerization in healthcare have yielded significant, albeit highly uneven, progress. Computer systems provide value to many clinics and physician offices day by day, but many benefits of computerization remain yet to be realized. A recent report of the National Research Council entitled “Computational Technology for Effective Health Care: Immediate Steps and Strategic Directions” singled out human-computer interaction (HCI) as one of the most important improvements for electronic health records. As several recent studies have shown, information technology applications in healthcare can cause significant clinical errors, for instance in the prescription and administration of medications. Addressing the sources of these errors, and improving the support for the cognitive tasks and workflow of clinicians, is a critical need for the ongoing national implementation of health information technology. This talk will highlight current electronic health record implementations, as well as present HCI studies conducted by the Center for Dental Informatics at the University of Pittsburgh.

BIO:
Titus Schleyer, DMD, PhD, is currently Associate Professor and Director of the Center for Dental Informatics at the University of Pittsburgh. He holds DMD degrees from the University of Frankfurt, Germany, and Temple University, Philadelphia, as well as a PhD degree in molecular biology from the University of Frankfurt and an MBA degree in Health Administration from Temple University. Dr. Schleyer has been active in dental informatics research since 1989, conducting seminal research on electronic dental records, and Internet applications, workflow and human-computer interaction in dentistry. Since 1997, Dr. Schleyer has been a recipient of a training grant for dental informatics from the National Institute of Dental and Craniofacial Research. Dr. Schleyer’s research on dental computer applications is primarily funded by the National Institutes of Health. He publishes regularly on dental informatics topics in major journals, such as the Journal of the American Dental Association and the Journal of the American Medical Informatics Association. In 2009, Dr. Schleyer was elected to the American College of Medical Informatics. More information about Dr. Schleyer is available at http://about.me/titusschleyer.

HOST: Brad Myers