

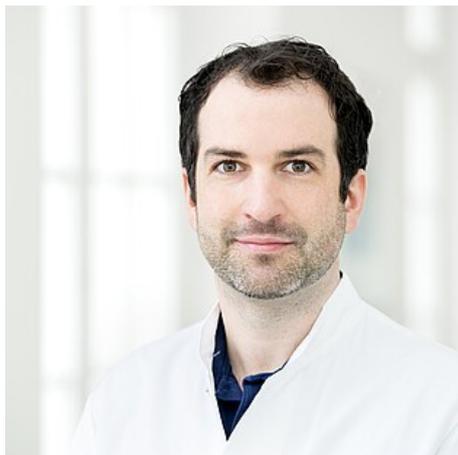
Data Management for Digital Health: Guest Lecturers on Medical Use Case Infectious Disease and Care

Feb 02, 2021 at 11:00 am

Big Blue Button online lecture, dial-in instruction can be found at the lecture website.

Next Generation Monitoring During Critical Care: Towards Ambient Intelligence

Prof. Dr. Alexander Meyer – German Heart Center Berlin (DHZB)



Short Bio: Prof. Alexander Meyer is chief medical information officer and a senior resident in cardiothoracic surgery at the DHZB. He is founding fellow of the Berlin Institute for the Foundations of Learning and Data (BI-FOLD) of the Technical University Berlin. He recently received a call as professor for clinical AI and Data Science at the Charité – University Medicine Berlin. Furthermore, he is the founder and chief medical officer of the academic spin-off “x-cardiac”, which develops an AI-aided real-time clinical decision support system for cardiac patients.

Automatic Surveillance of Multi-drug Resistant Organisms and Early Detection of Outbreaks within a Hospital

Dipl.-Inf. Hauke Tönnies – University Hospital Münster (UKM)

Abstract: An essential task of infection control within a hospital consists of surveillance. In particular, it is crucial to detect multi-drug resistant organisms (MDRO) and early detection of outbreaks. At the University Hospital Münster each multi-drug resistant bacterium (MDRB) is sequenced and typed using an elaborated core genome multilocus sequence typing (cgMLST) scheme to compare individual MDRB with each other and to identify possible transmission ways quickly. Additionally, it is vital to find an epidemiological link between two patients with similar cgMLST to confirm a possible transmission.

Today, both tasks – comparing different MDRB and contact tracing – require involvement of infection control specialists. Patient-specific information, e.g., microbiological results, epidemiological links, are stored distributed across different databases. Currently, we are working on combining data to automatically perform these tasks.



Short Bio: Hauke is an assistant physician and researcher at the Institute of Hygiene of the University Hospital Münster. He started his career as a computer scientist and worked in Bremen and Barcelona. Afterwards, he decided to deepen his medical knowledge and received a degree in medicine and medical informatics from the University of Lübeck.