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Ringvorlesung Medizinische Informatik

Public Health Surveillance Systems and its future potential in primary health care settings: Concept, approaches and research experience

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Public health surveillance is defined as “the continuous, systematic collection, analysis, and interpretation of health-related data needed for the planning, implementation, and evaluation of public health practice.” The role of information communication technology in public health surveillance is multifaceted, which include public disease notification alert in outbreak detection, data collection, and reporting, geospatial disease, and injury risk area mapping. The value of surveillance lies in the effective and efficient delivery of useful information using the best technology to deliver the data when and where they are needed. Though the introduction of information communication technology in surveillance practice revolutionize the way the surveillance system is functioning, evaluating the impacts of ICT in the surveillance systems using rigorous research methods is still under-researched

In this lecture, a medical informatics expert, who has recently defended his dissertation in the University of Oldenburg will present the concepts of surveillance information systems, the potential of ICT for effective and efficient surveillance practice and research. Along with this, the research experience in one of the resource-constraints country surveillance site will also be presented.



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