

Ein Expertensystem verbessert die Qualität der medizinischen Praxis

Alscher MD, Klenk S, Dippon J, Kleinhans A, Friedel G, Zakim A, Ott G, Braun N, Winter S, Brinckmann W, Fritz P

1: Institut für Digitale Medizin
Am Kriegsbergturm 44
70191 Stuttgart
dominik.alscher@idm-foundation.org

2: Institut für Stochastik, Universität Stuttgart

3: Robert-Bosch-Krankenhaus, Stuttgart

The knowledge base for the practice of medicine is growing exponentially. To digest the available new information, a practitioner had to read almost all of his time and would not be able to treat patients. Since the economic burden is pressing doctors to see more patients in a shortage of time, the quality of the so-called evidence based medicine in practical medicine is declining. Additionally we see more complex patients with co morbidities due to the demographic shift with more older patients with a multiplicity of chronic diseases. However, the growing knowledgebase is giving the doctor a broad array of different factors for single decisions, which overwhelm the short-term memory of the human brain. To bridge the gap and to present the best available data to the point of decisionmaking, from our point of view there is a strong need for expert systems for decision support to guarantee a high level of medical quality. Most of medical IT solutions are developed out of the needs of hospital administrations or handling of simple digital data, as laboratory values. However, the patient should be in the centre of the process of executing high quality medicine. Therefore we see a lot of arguments for IT systems which covering medicine in the core of the IT processes. With CLEOS we have a solution available that could bridge the gap.