

Vývoj analytického nástroje pro podporu hodnocení onkologické péče (I-COP)

Development of Analytical Tool for Support of Evaluation of Cancer Care (I-COP)

Blaha M., Klika P., Janča D., Dušek L.

All the information relevant to fulfil standard health care in health care facilities is usually managed through hospital information systems (HIS). HIS produce large volumes of heterogeneous data sets which usually describe the same problem but with focus on different aspects of healthcare. Most of these outcomes have only administrative reporting value but the clinical information itself is insufficient. This limits all fields of medicine where the therapeutic standards are related not only to diagnosis but where other clinical information is necessary as well. Cancer care can serve as a typical example of such information demanding field because most therapeutic standards there are related to diagnosis, clinical stage, grade and other prognostic markers. The solution for this insufficiency is to join different data sources - administrative relevant data from HIS and clinically relevant data which can be gathered through external information sources like population-based registries (if they exist). A new data mining tool called I-COP provides solution for this highly required data merge. The proposed system is capable of merging the different available data sources (administrative data and National cancer registry) and to extract information relevant to the evaluation of cancer care. I-COP uses web based reporting to show and describe this information and can be used as a simply accessible tool for understanding and evaluation of processes in cancer care.