

Digitization in the hospital sector - Does the hospital information system influence the degree of digitization of a hospital?

Background

As part of the «DigitalRadar» project, an evaluation of the level of digital maturity of hospitals is being carried out in Germany in accordance with § 14b KHG. The maturity model developed with the help of the Chair of Management in Healthcare at the HSG enables a standardized and comprehensive evaluation of the degree of digitization of hospitals by conducting and evaluating a survey or self-assessment of the hospitals. The objectives of the project are:

- to evaluate the basic status of digitization in German hospitals,
- to analyze the effects of the current financial support for digitization with regard to the degree of digitization, and
- to investigate the effects of digitization on the quality of patient care.

The funding project is intended to identify areas of action for improving healthcare provision and working conditions in hospitals. In addition, the economic performance of hospitals is to be increased and innovations and the exchange of health data are to be promoted.

Data

During the first phase of the «DigitalRadar» project, data points were collected and processed to assess the status quo of the degree of digitization in hospitals. These can now be used for scientific analyses and are available at the chair.

Possible research topic «Impact of central hospital IT systems on hospitals' degree of digitalization»

Within the framework of the bachelor's or master's thesis, it could be investigated whether the central hospital information system (HIS) used by a hospital influences the degree of digitization of the hospital and the seven areas of digitization: (1) Structures & System, (2) Resilience Management & Performance, (3) Org. Control & Data Management, (4) Clinical Processes, (5) Information Exchange, (6) Telehealth & (7) Patient Participation. These correlations can be analyzed in the context of other hospital characteristics (e.g. size, ownership, type, region, IT staff).

If you are interested in and/or have questions about the above topic area and would like to write your thesis here, we look forward to hearing from you at David.Kuklinski@unisg.ch and Justus.Vogel@unisg.ch. You can also propose your own research topic, we will be happy to advise you. We can generally supervise all students of medicine (Joint Medical Master), Business Administration, Economics and International Relations.

We are looking forward to receiving your exposé with a proposal of a concrete research question, methodology and approach!