

Title: *How data science is changing our understanding of perioperative care*

Abstract:

The allocation of medical resources, for instance the targeted provision of intensive care to patients, has a tremendous impact on outcome and is currently not adequately addressed by existing structures. Tailored decisions on individual patient pathways require the integration of patient preferences, quality indicators, medical devices and software and economic constraints in an overall concept. The digitalization of clinical processes enables the implementation of quality-based structures in the regional health sector. Furthermore, tele-medical concepts adapted to these needs are key to consolidating implemented structures and to establishing feedback mechanisms for sustained improvement.

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