Big data in clinical information systems has enormous potential for the Future Medicine Initiative. The aggregation and analysis of medical data from routine care can drive the development and improvement of medical technologies. This is the goal of SMITH. Through our work, we aim to link research and healthcare in a targeted and privacy-compliant manner. The German Network of University Medicine (NUM) is now implementing the already established central technological interfaces of established medical centres within our national partner network. In cooperation with the German Network of University Medicine (NUM), we are developing further in the current funding period.

THE MEDICAL INFORMATICS INITIATIVE A GROWING NETWORK

The Medical Informatics Initiative (MII) has been building interoperable data infrastructures at university hospitals. The Data Integration Centres are networked nationwide to enable cross-location projects to be carried out according to uniform national standards. The so-called data integration centres process the data and biospecimens from the participating sites. Data (FDPG). It is intended to serve not only MII partners but all researchers who make a significant contribution to improving medical care by providing their data.

THE FUNCTIONALITY OF THE DATA INTEGRATION CENTRES

The Data Integration Centres, initially established at university locations as part of the Medical Informatics Initiative (MII), create the conditions for secure and privacy-compliant access to medical data in a structured manner. Based on a variety of legal and organisational measures, medical data are centrally consolidated in one place, harmonised, and made available for further use. The centres are also fed back into healthcare through the Data Integration Centres. The knowledge gained from these initiatives is used to enable cross-location projects to be carried out according to uniform national standards.

THE NEW SERVICES OF THE DATA INTEGRATION CENTRES

During the development and networking phase of the MII (2018 - 2022), SMITH was able to establish service data integration centres in clinical use. This has enabled us to develop mobile applications in the fields of intensive care and infectious diseases, which are now in clinical use. This has enabled us to develop mobile applications in the fields of intensive care and infectious diseases, which are now in clinical use. The re-use, aggregation and analysis of medical data from patient care is to be digitally networked nationwide and made available for medical research. In the four current funding phases, the Medical Informatics Initiative (MII) has been building interoperable data infrastructures at university hospitals as part of the Medical Informatics Initiative (MII), Germany is working together with research institutions, companies, health insurance providers, and represents the infrastructure at university hospitals. The Data Integration Centres, initially established at university locations as part of the Medical Informatics Initiative (MII), create the conditions for secure and privacy-compliant access to medical data in a structured manner. Based on a variety of legal and organisational measures, medical data are centrally consolidated in one place, harmonised, and made available for further use. The centres are also fed back into healthcare through the Data Integration Centres. The knowledge gained from these initiatives is used to enable cross-location projects to be carried out according to uniform national standards.

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USE CASE POLAR (01.02.2020 – 31.12.2022)

Reduction of clinically relevant drug interactions

The INTERPOLAR Use Case focusses on the early detection of adverse drug interactions. INTERPOLAR applies the results in clinical practice. The aim is to support the workflow of health professionals and patients by acting as a decision support system for early detection and prevention of adverse drug interactions. It is based on an algorithmic surveillance in intensive care.

USE CASE HELP (01.01.2018 – 30.06.2023)

Defection of health risks with polymedication

The HELP Use Case has made an important contribution to improved medication management. In the cross-consortium use case, led by SMITH, automatic workflow-based surveillance is aimed at identifying potential medication data from patient care such as allergy prescriptions from pharmacies. POLAR will continue in the INTERPOLAR Use Case.

USE CASE PHEP (01.01.2018 – 31.05.2023)

Data platform to support clinical evaluation projects

In the methodological use case, SMITH is developing innovative ways to automatically extract medical information from electronic patient records. PHEP also provides a platform for distributed analysis. The current body of knowledge from PheP will be continued and extended in the cross-consortium use case SMITH.

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Algorithmic Surveillance in Intensive Care

Cases have been implemented within SMITH on a consortium basis. With the BMBF, we aim at the successful consolidation and extension of the cross-consortium use cases.