

# Digital Screening in the context of Oncological Treatment and Research:

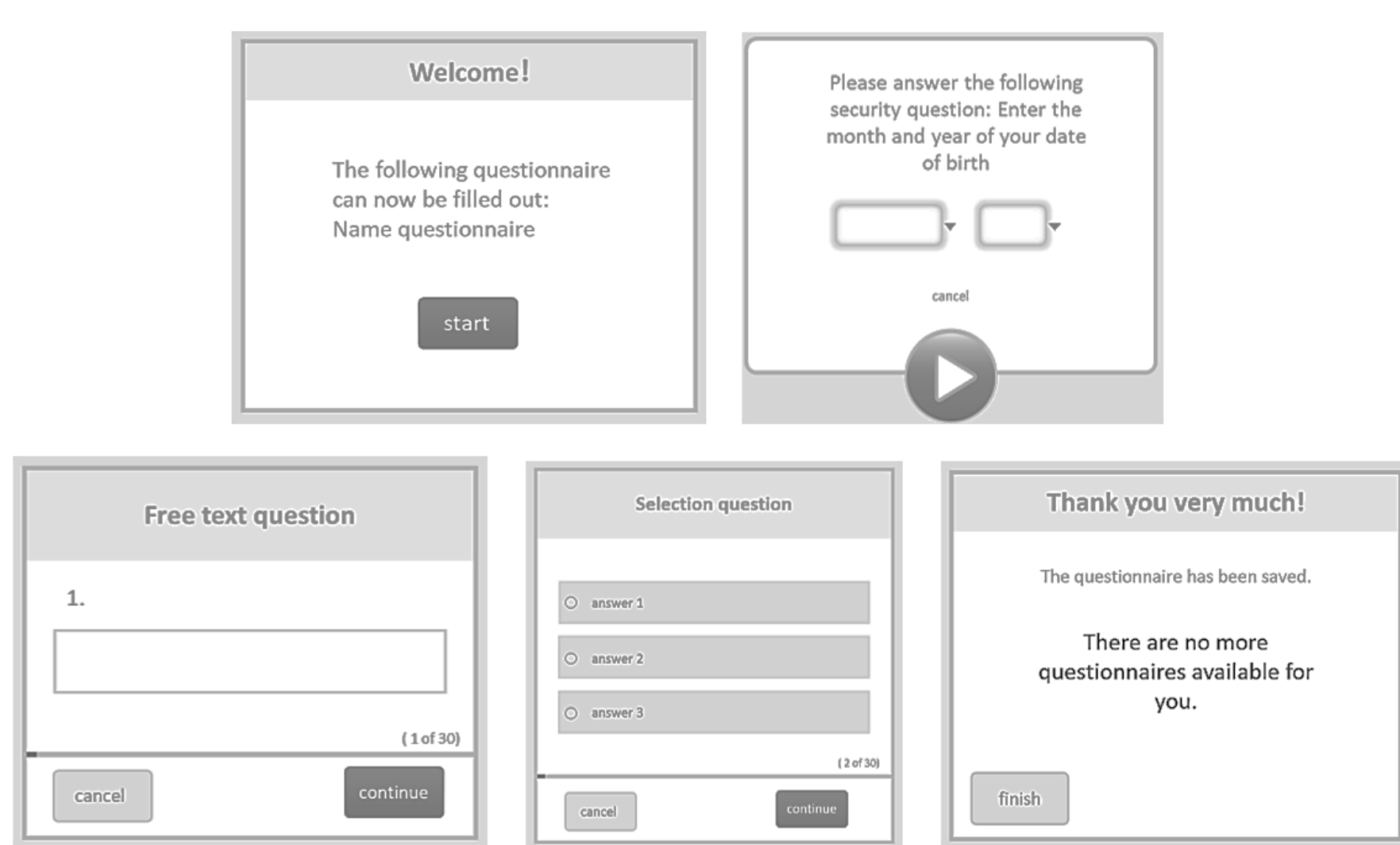
## the Development and first Experiences of a Digitalization Strategy for Assessing Digital Patient-Reported Outcome Measures (PROM) at the University Hospital Regensburg

### Background and Current Research

Patient-reported outcomes measures (PROM) have an increasing impact in oncologic treatment and clinical research.

Digital assessment of data through mobile devices has been developed and implemented in Regensburg for an oncological routine screening ONCO-ROUTES.

The integration of PROM into existing clinical systems and research infrastructure is important for optimized usage of data.



### Results and Conclusion

Digital screening simplifies the acquisition and storage of PROM and provides many advantages in comparison to paper-based patient outcome measures. A special focus should be on IT-security, data protection and usability for employees and patients.

Digital assessment makes the data directly available in a structured format. The data can be used immediately as support in the patients' treatment. Through standardized formats, research in the context of further clinical parameter is guaranteed.

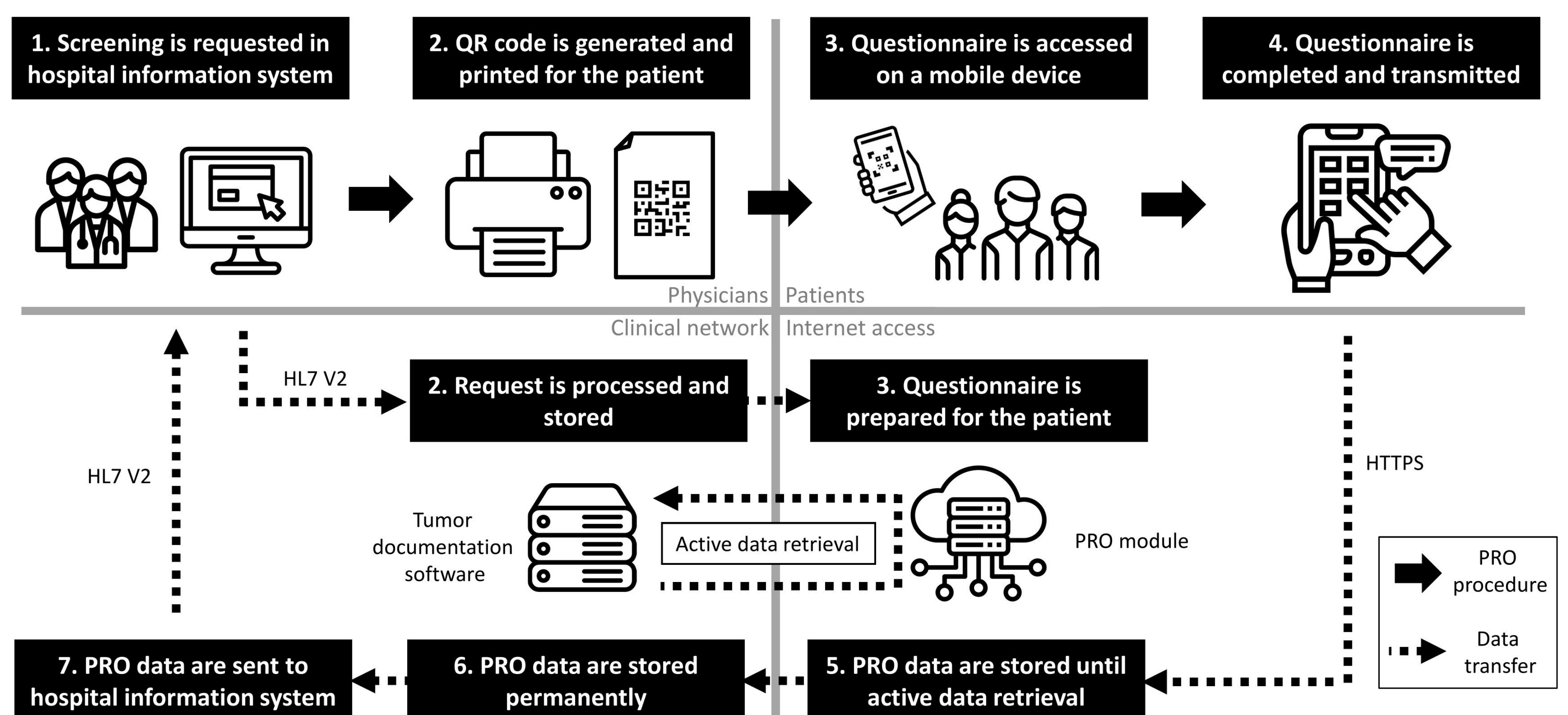
Based on the made experiences, the presented screening strategy can be recommended for prospective screenings in the context of oncological routine and research. It can provide guidance for similar future projects.

### Methods

Together with specialists from IT-security and data-security, the development of an operational and technical procedure to integrate the assessed PROM data into hospital information system (HIS) was developed.

The data is transferred as HL7 messages between the clinical systems. The questionnaire is anonymized but labeled with an encrypted ID, which can be reconnected to the patients' health record.

To provide the data to the local research infrastructure, the data needs to be exported in a structured manner and transformed to a standardized format, i.e. a FHIR profile for patient-reported outcome.



Author: Anna Resch