iterata
MEDICAL SERVICES

real world medical data analysis
- we just observe the data
- we do not copy

Iterata AG Medical Services
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STRUCTURED DATA ENTRY

Unstructured data or data that is not even archived is a big problem in every field that has to deal with big data. Structured data entry and data storage is an approach Iterata aims for.

Structured Data Entry with integrated Search Capabilities

Introduction

The collaboration between different specialists, researcher and specialist staff has to be more efficient. To ensure a more efficient way of data collection and processing, Iterata adjusted the paper based archive in a first step to a digital archive, and further structuring the whole data entry process, including the real-time generation of a final report - **when the examination of a patient is done, the reports are ready to be delivered to various stakeholder**. Besides the massive savings of time and reducing administrative resources, one of the biggest benefits are to generate well-structured clinical patient data, increase the report quality, as well as the gain and improve of a search capability. This approach enables a standardization which improves the workflow in general everywhere different individuals have to work together.

Structured data entry is a fundamental requirement for an improved decision-making process. The data quality increases, the process speeds up and the costs are optimized. Besides, the daily medical practice and research are facilitated with a standardized, clearly stated and consistent catalogue of questions. If the data entry is structured, the data is evaluable real-time and there is no delay in the report generating process anymore. The data gets addressable and with this searchable and is monitored permanently.

Iterata stands for an efficient cooperation between the domain experts and specialists. It is our concern to integrate valuable domain knowledge into your applications to improve the user friendliness. With this approach, the implementation into daily medical practice is simplified. A spreadsheet fed with domain knowledge is created and uploaded via our services. This spreadsheet specifies the content and the functions of the application. The spreadsheet is transformed into an interactive form, implemented into a pre-existing infrastructure. The domain knowledge gets linked with styling and structuring guidelines provided by Iterata. The result is a user interface based on domain specific input and this leads to structured data entry and standardized reports, aligned with the domain requirements.

The application can be adjusted depending on the department the attending physical is working in. Standardized are displays of patient entry, diagnosis, medication list and an overview of the most important parameters, although the parameters can be adjusted depending on the importance for the medical department. Tabs for examinations, tests and questioners that are important for a given department can be adjusted as well.

The goal is to keep the implementation efficient, so that the domain expert can have an impact on the final form based on the needs and daily practices. The report generating process behind is a standardized feature to ensure facilitated collaboration between specialists.

Reference

For the treatment of patients, the Rheumatology clinic works together closely with other specialty clinics of the Kantonsspital Aarau. Formal consultations are held together with the clinics of Orthopedics, Neurosurgery, Pediatrics as well as Plastic, Hand- and Reconstructive surgery. Other clinics and specialty laboratories of the hospital are available if necessary. It is our goal to conduct the necessary evaluations quickly and efficiently for all diseases in our field of activity, and to introduce an individual treatment plan for each patient.

Projects in which the Rheumatology Clinic and the Institute for Physical Therapy and Rehabilitation are especially interested are the quality control of treatment for arthritis of the hip and knee, of conditions of the vertebra as well as Rheumatoid Arthritis. There are also studies on the identification of risk factors for infections in Rheumatoid Arthritis being carried out, as well as research on the causes of Rheumatoid Arthritis and systemic Lupus erythematodes.

Structured Data Input & Report Generator

- Reports are generated from structured examination data using of the domain specific rules. The Iterata-system allows the doctors to easily define changes and maintain these rules.
- Structured Data is the precondition for reports adapted specifically to stakeholder

Next Avenues

- Implementation on different hospital sites
- Supporting collaboration between different specialists and hospitals
- Implementation not only in the medical field, but also the banking system, insurances…
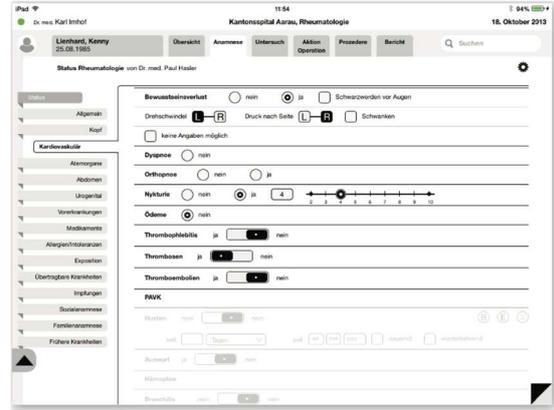
Please do not hesitate to contact us

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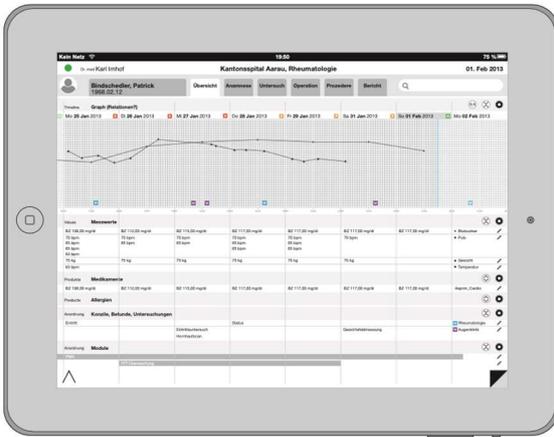www.iterata.ch

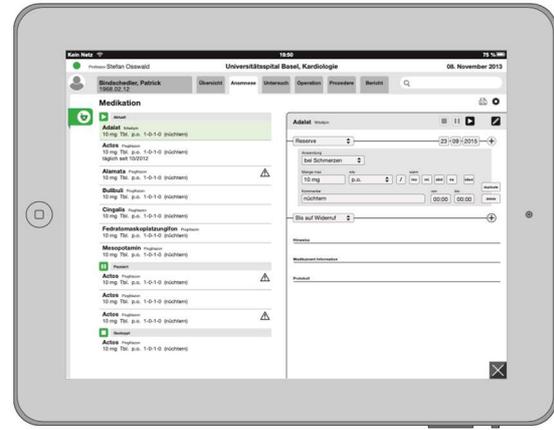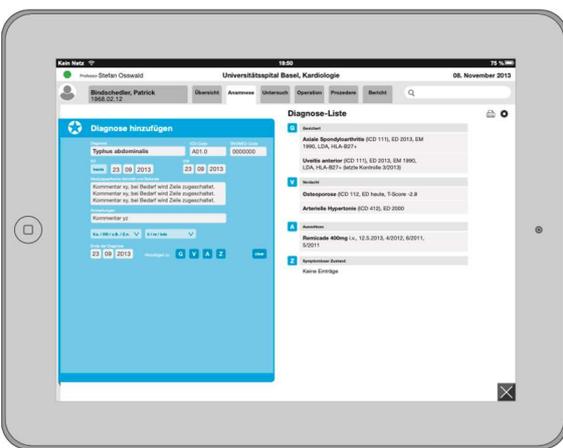## Insights & Impressions

Medical record history

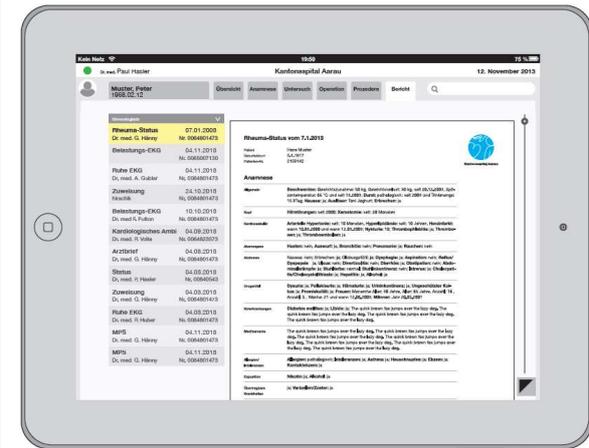Clinical workflow – structured data input
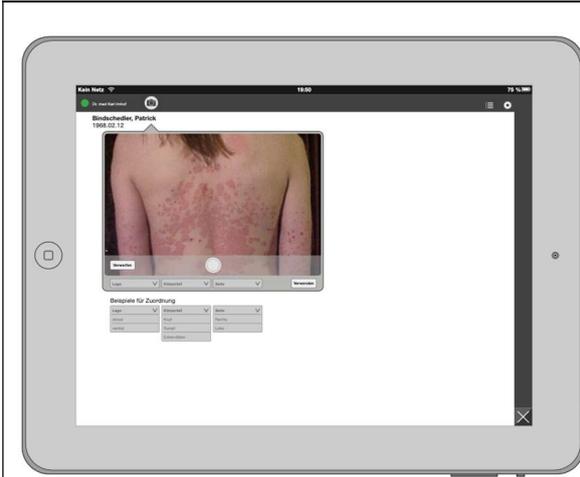

Overview of parameters, appointments, lab values, etc.
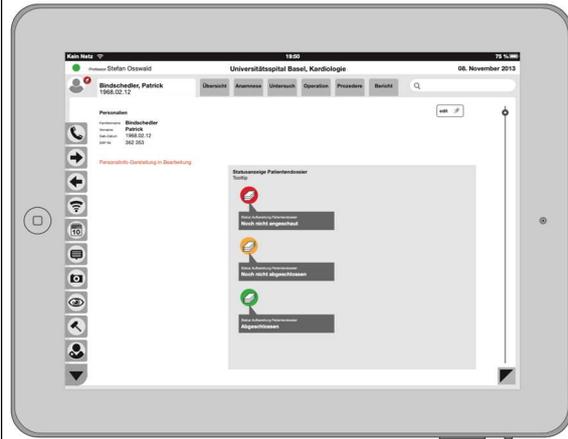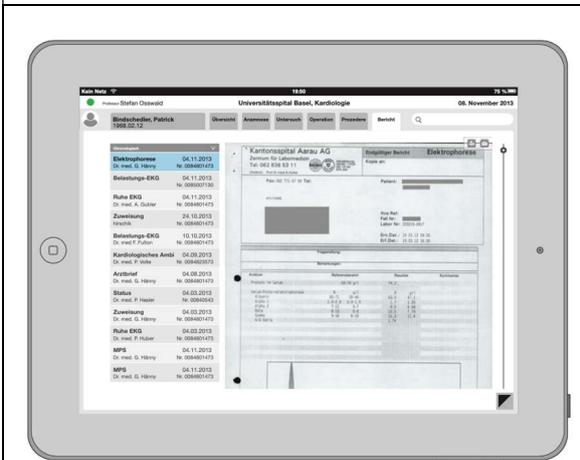

Medication list

List of diagnoses

Patient reports, also from other domains

Picture upload, description and highlighting possible

Report overview (generating new ones, proofreading…)

Patient reports, also from other domains