A Component Based Solution for Managing Cancer Care and Clinical Research

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Gießen Tumor Documentation System

Hospital Cancer Registry

Clincal Functionality

Report Writing
- Overviews
- Discharge Letters

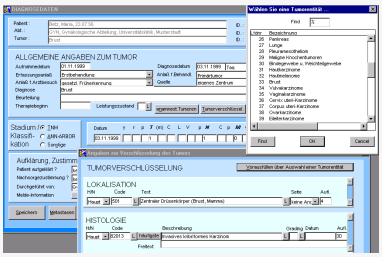
Therapy Management
- Calculation of Chemotherapy and Therapy Schemes

Trial Management
- Trial Data
- Administrative Data
- Eligibility Criteria
- Participating Patients
- Assignment to Therapy Schemes

Knowledge Based Functions
- Plausibility Checks
- Therapy Eligibility
- Alerts

Access to External Information Sources
- e.g. Cancernet, Drug Information
- Via Information Server
- Direct Method

Statistics



Diagnosis Data with Selection of a Tumor Entity

Registry Functionality

Documentation
- Basis Data Set
- Organ Specific Data Sets (Melanoma)
- Integration of Other Modules

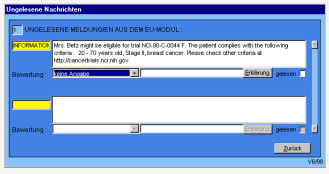
Follow-up Management
- Scheduling
- Reminders and Printed Documentation Forms
- Feedback Control
- Long Term Follow up Management

Registry Administration
- Statistics
- Reimbursement Support

Data Echchange
- Population Based Registries
- Hospital Information Systems (HL7, ASCII)

in Development:
- GP Systems (BDT)
- Registries
- Trial Centers

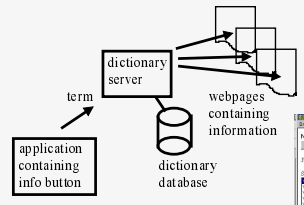
Plausibility Checks
- according IARC (Lyon)



Message produced from the Arden Module

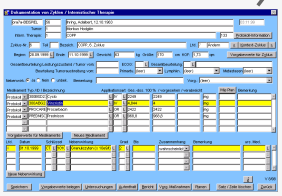
The Dictionary Based Information Server *

Access to External Information Sources

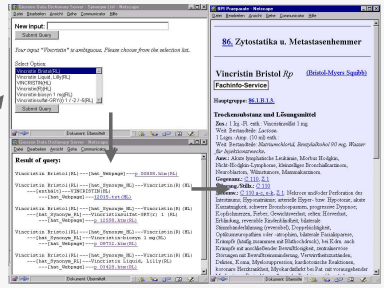


The Information Server GDDS is a component which has been designed to supply heterogenous clinical applications with context sensitive information. Based on a medical data dictionary it is invoked with an info button inside the application which transmits a search term, e.g. a drug name or a cancer term. The Information Server links directly to related information sources and enables navigation between those different sources.

Design of the Server



GTDS Chemotherapy Calculation



Presentation of Links

* Bürkle T, Rau IN, Mehta A, Dudeck J (1998) On the way to a web access to patient information systems: concepts for the secure medical data delivery to present sensitive patient information in an Internet environment. In: Cesnik B, Mc Cray AT, Scherrer J-R, (eds) MedInfo 98 Proceedings of the 9th World Congress on Medical Informatics, Ios press Amsterdam p 17-21

Give Information about Vincristin

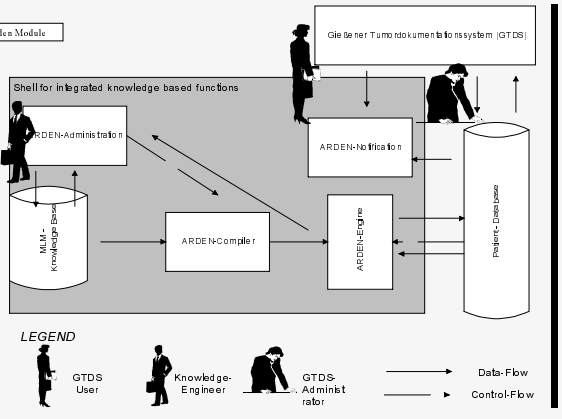
Extend Documentation for Hodgkin's Disease

Is there a Trial Open for Breast Cancer ?

The Arden Module of GTDS

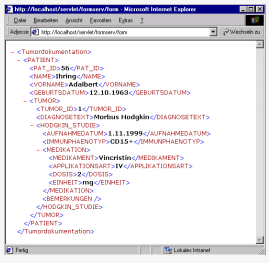
Check Patient's Eligibility for Trials

Design of the Arden Module

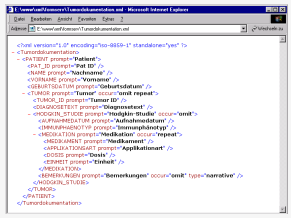


The XML based browser interface

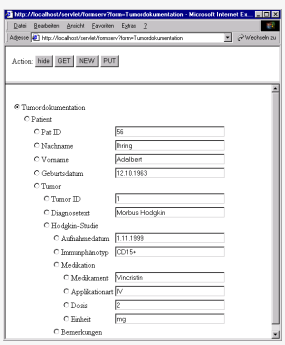
Standard and Trial Documentation in the Intranet



XML File with Patient Data



XML Definition for a Form



Form in the Browser