



**IMSP Group Germany
International Medical
Student Project**

Ernst-Moritz-Arndt University
Greifswald, Germany

E-Health

IMSP-Meeting in Tartu 2013

1) Documentation of patient's history,

- Basic paper documentation
- Digital documentation in Lorenzo computer system

Anamnese Datum: 20.06.20

Patientenaufkleber
Reppin, Sebastian
24.06.81, 30 Jahre

Hausarzt:
Einweisender Arzt:
Mitbehandelnde Ärzte/Briefe nachrichtlich:

Einweisungsdiagnose: unklare Bauchschmerzen
Nebendiagnosen: keine
Allgemeinzustand: gut Ernährungszustand: Obst wegen Allergie
Jetzige Anamnese:
: siehe Reichsart
Eigenanamnese / Operationen: OP im Alter von 7 Jahren wegen Phlegmonsverletzung
stationäre Aufenthalte / Unfälle:
Familienanamnese:
Vater: Diab. mellitus II, Hüft TEP, Großeltern:
Mutter: nichts bekannt Bräder:
Allgemeine Anamnese
Größe: 1,75 cm Alkohol: Feinschäufel 2. Abmal/Woche Miktion: normal / Beschwerden
Gewicht: 68 kg Nikotin: 14 Stk Nikturie:
Gewichtsveränderung: 73 vor 2 Wochen? Koffein: 10 Tassen/d Stuhlgang: Beschwerden
Appetit: gut Trinkmenge: 1,5 l/d Schlaf: Schlafen leicht, Dreams/Alpträume
Fieber: Nachtschweiß:
Allergien: Pollen, Nussstaub, Milchei, Kräuter
Medikamente:
Soziale Anamnese
Schulbildung: gelernter Zimmermann
Beruf: Produktionshelfer (Siemenswerke)
Wohnverhältnisse: seit 2 Jahren in HGW Dobnering
Kinder: ledig

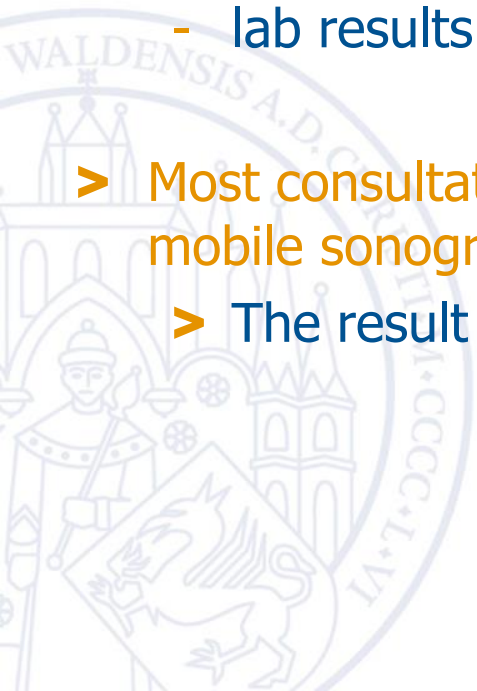
... examinations in hospital

➤ Some are digital as ...

- radiological scans, sonos
- endoscopies,
- lab results

➤ Most consultations on ward are documented in paper including ECG, and mobile sonography

- The result is double documentation on paper and computer



and patients care

- Currently no good implementation for treatment course except on the intensive care unit (not compatible to main system)

Klinik für Innere Medizin A							Allergien/Besonderheiten:																											
Beruf:		Datum:																																
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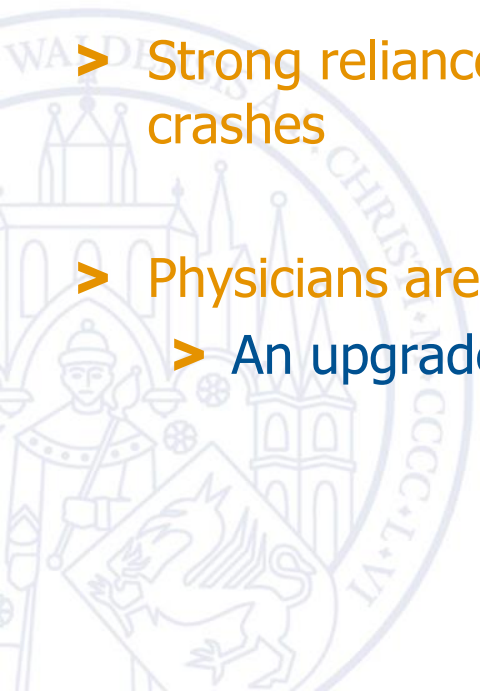
2) Connection between hospitals

- A lot of communication is via telephone and fax
- Radiological pictures or examinations are accessible in a digital form for selected hospitals in our region (Pomerania server 2006: Germany/Poland)
- If patients are discharged or moved to another treatment facility paper letters are written
- Plans for the future:
 - Upgrading of the existing „Gesundheitskarte“ to save current medication, allergies



3) Are doctors happy with the current work situation

- Unfortunate mixture of slow virtualization and slow computers
- Incompatible software solutions for different extensions
- Strong reliance on the computer system and problems in the case of crashes
- Physicians are unhappy with double documentation
 - An upgrade could be: medical typists, full digital work place



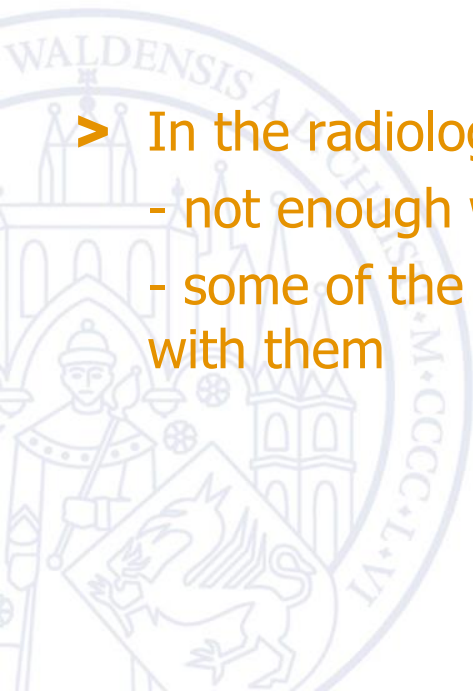
4. Can the patients themselves see the data that is written about them in the patients histories somewhere? Is there an eHealth system in place that is accessible for patients?

- By law, patients are able to obtain a copy of their patient history except if there are medical reasons prohibiting this (e.g. psychiatric disorders)
- No. Even for the physician it is not possible to see full of the information of one patient if the don't have access
- No.



5. Is the technical equipment you have at your disposal good enough to fulfill the tasks you need? If the computers are too slow, what is the likely cause?

- No, there often aren't enough computers for the staff. Especially for students there are no workstations
- In the radiology:
 - not enough workspaces with computers
 - some of the computers are so old that they aren't fast enough to work with them



6. Is the internet-connection fast enough?



- Good connection speed but old hardware and insufficient virtualization instances



7. Information Income

- Patients call the coordinative office and then the outpatient clinic is called (→ A&E)



8. Plans for the future / main developmental directions

- Technical innovations (price decrease)
- Building up a sufficient infrastructure for faster data exchange in rural areas
- Introduce a general supply of medical care
 - Electronic insurance card
 - E-health- guidelines for Germany
 - „Move the data and not the patient!“

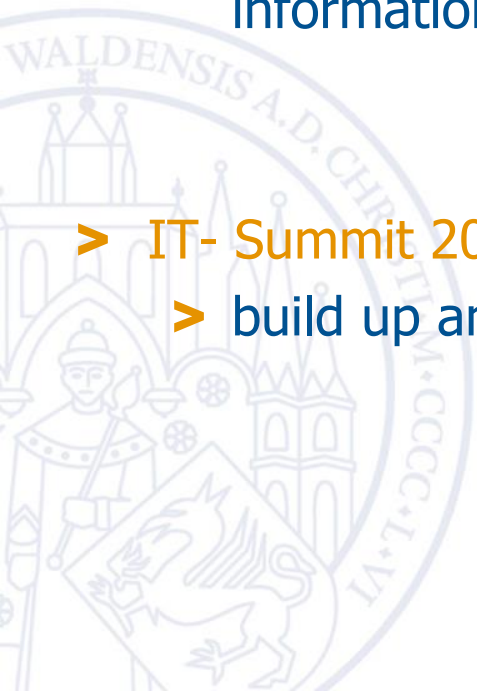
9. Country's involvement and interference

> Government:

- > Defines rules for the financial support in the economic application
- > Very strong "Datenschutz" focus decreases the usability and scope of many applications (German "Gesundheitskarte" contains almost no information)

> IT- Summit 2012:

- > build up an information - and supporting system

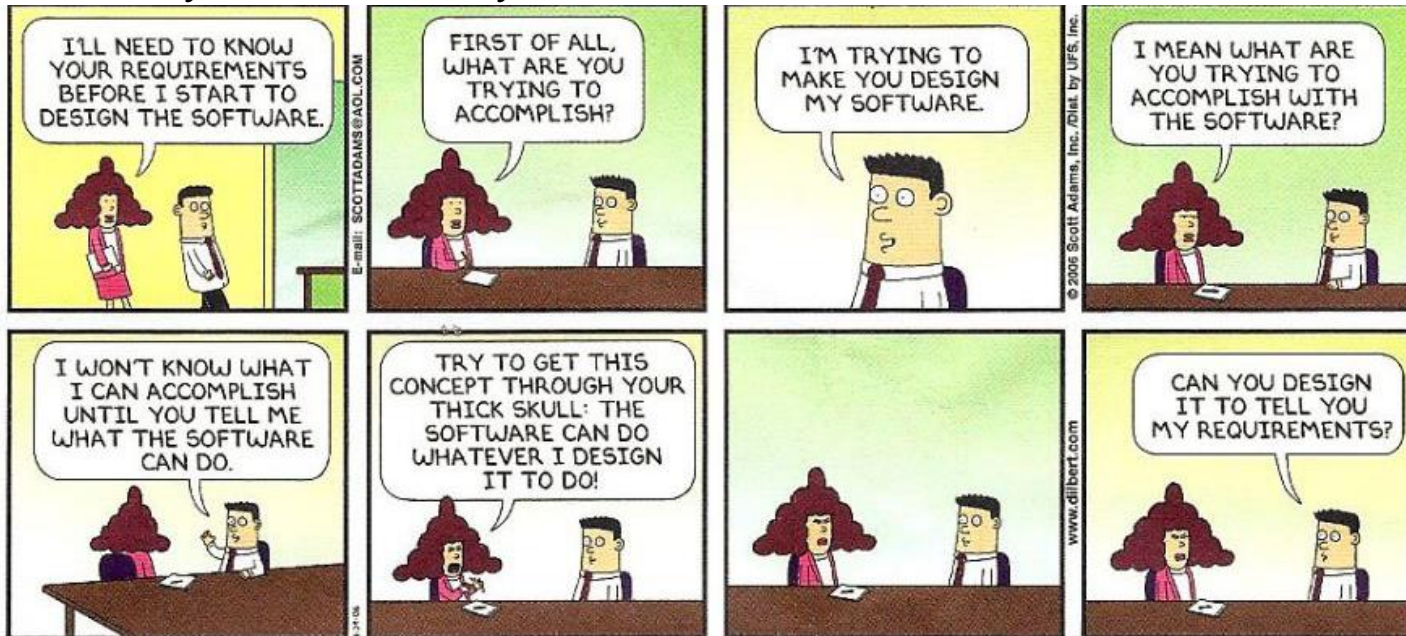


Thank you very much for your attention



The problems that persist...

The buyers are usually not the users



The products seldomly do all the things they supposedly do

