ökonomische Aspekte

telematischer Anwendungen am praktischen Beispiel

PDAs statt Papier

Telemedizin am Unfallort

die Gesundheitskarte

M. Reng, Regensburg

PDAs sind unentbehrlich...!

NEW UCLA AvantGo Server

NEW UCLA AvantGo Installation Instructions

Purchasing Considerations Class of 2005

Purchasing Considerations Class of 2004

PDA User Group

Medical Students Home Page

HOME

Want to print this page?
Click here then click on your browser's print button.

Effective Summer 2001 beginning with the class of 2003, 3rd and 4th year students will be required to have a PDA - Personal Digital Assistant or handheld computing device - for two primary reasons: to enable "point of contact" access to information resources; and to prepare students for practicing medicine in the 21st century.

Class of 2004 / Class of 2005

Notes from the 04.14.03 PDA Requirement Meeting for the class of 2005 (includes video of meeting). If you have any further questions please call either Evie Kumpart @ 310.825.1045 or Peter Lavarreda @ 310.206.8114.

Hardware Requirement:
The minimum equipment required is a PDA with a Palm Operating System (OS) and 8 MB of memory with a memory expansion slot. Models containing 16 MB of internal memory also meet the minimum requirement. Student are expected to synchronize their PDA with their home computers a minimum of once a week preferably at the end of the week in order to submit Patient Log data and receive important updates from UCLA AvantGo server.

Software Requirement:
Students are required to use the UCLA AvantGo server for submitting Patient Log information from their PDA as well as a Pharmacopeia, a Med Calculator, a Document Reader, and a Security program.

UCLA AvantGo Client Installation - http://www.medsch.ucla.edu/pda/installation.htm

PDA Software

The PDA Requirement Committee has identified various software programs available in each category.

Pharmacopeias (Required - Select One)

The primary elements to look for in a "PDA Drug Companion" are: drug name lookup, class lookup, dosages, costs, drug interactions, drug mechanisms, and program updateability at time of routine synchronization. ePocrates contains all of these elements and is free.

ePocrates Rx	Peer-reviewed drug information including off-label indications and formularies in an easy to use format. Includes over 2800 drug monographs and the ability to check up to 30 different drugs for potential interacations. Also allows user to look up adult/peds dosing, contraindications/cautions, drug interactions, adverse reactions, Mfr/cost information and other information (i.e. pregnancy, lactation and mechanism of action). Drug database is updated daily. Memory	**FREE**

PDA DB of Links
Submit a Link!

BruinWalk/Price Grabber

Hardware (7)
- Doctor Digital Voice Recorders/MP3 Player Palm Handheld
- WideRay Wireless for PDAs
- MatchBook Products
- Sony Clie
- HandEra
- ...More Links!

Software (28)
- Clinical Pharmacology
- OmniMD
- Qvadis
- AirSpell, LLC
- OsteoEd
- ...More Links!

Purchasing / Bargains (2)
- Tech Bargain
- My Simon

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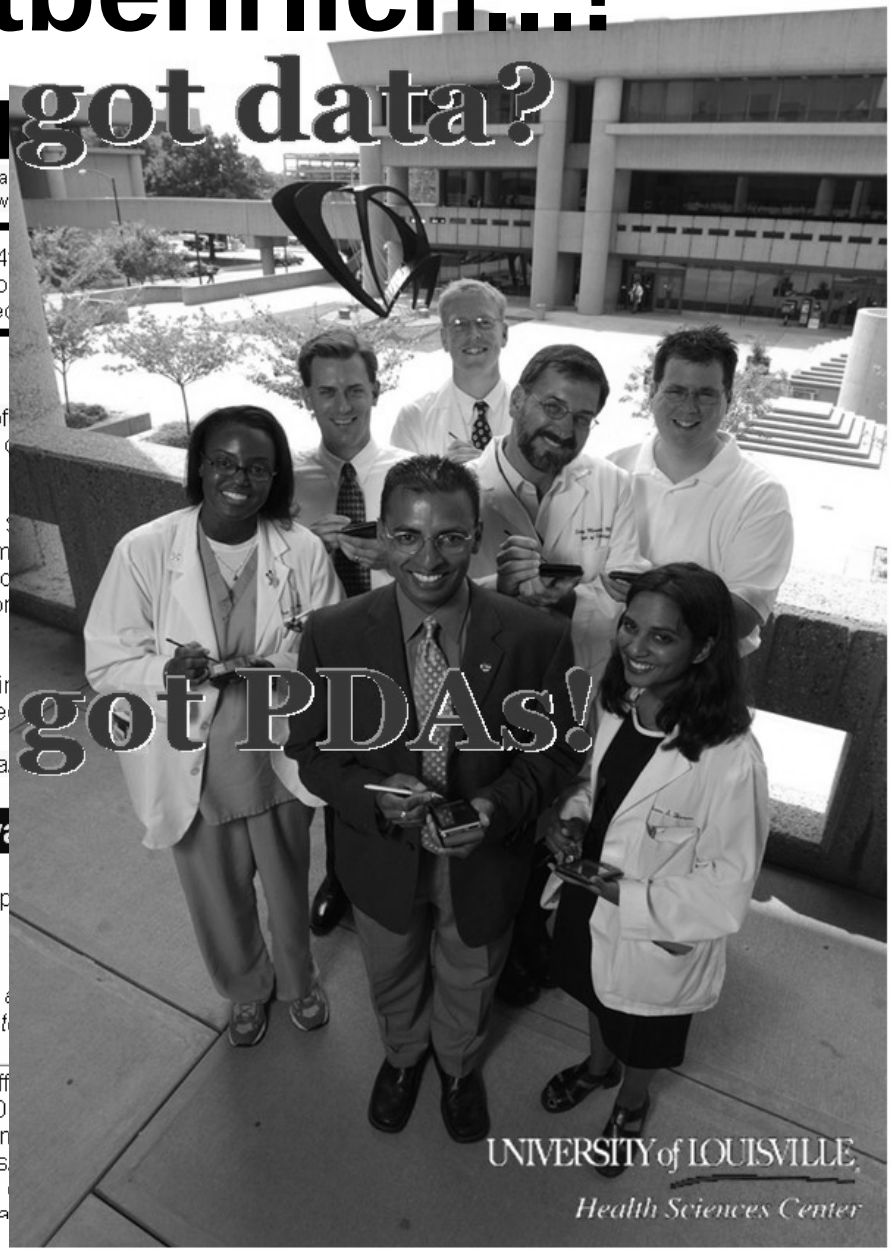
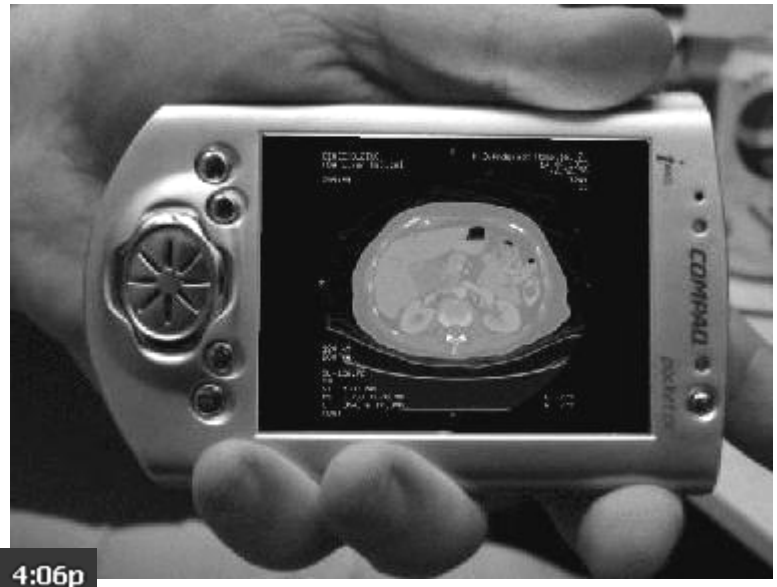
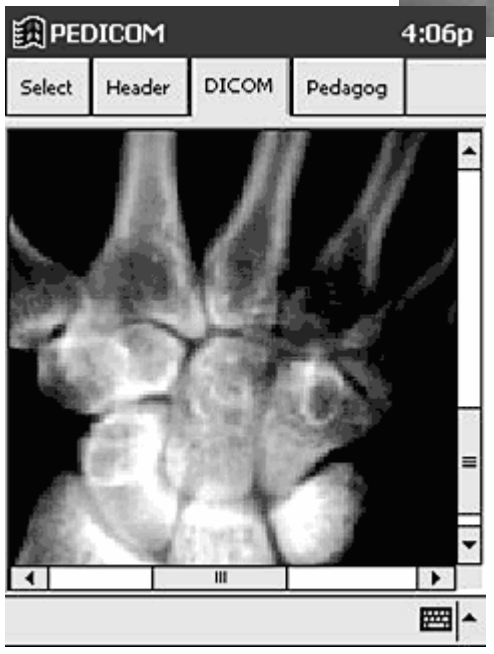
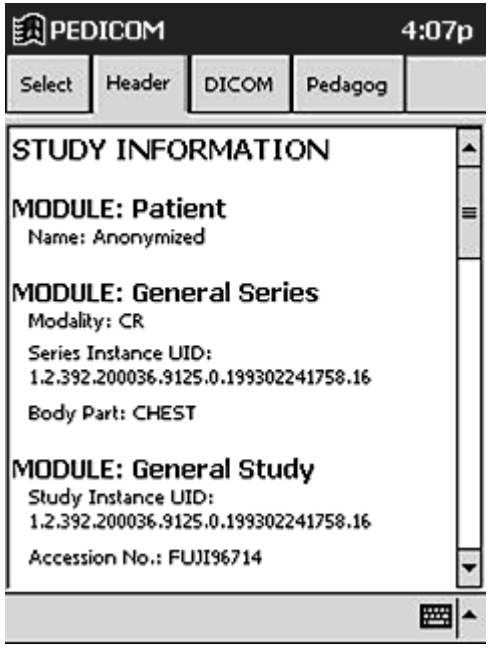


PDA-PACS

www.pedicom.com



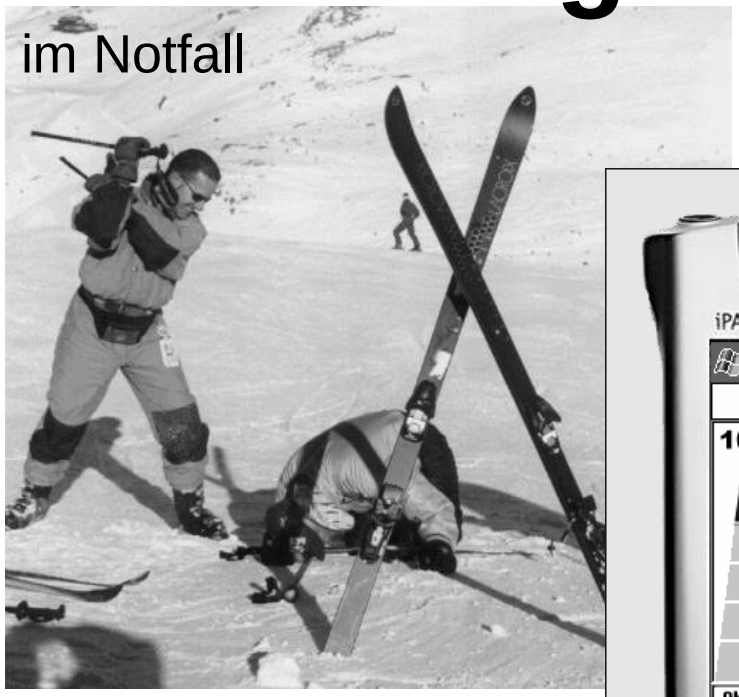


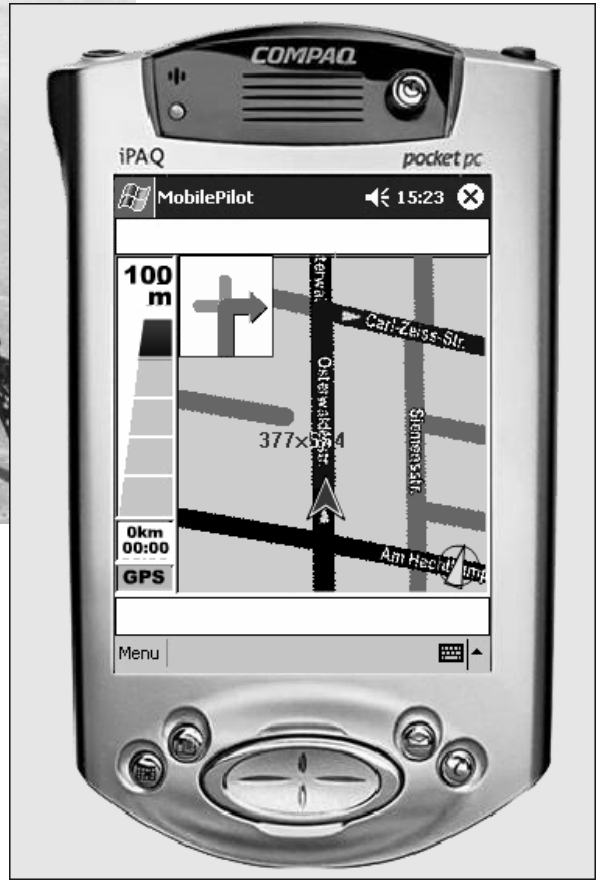


DICOM-Viewer für Palm-OS

PDA-Navigation

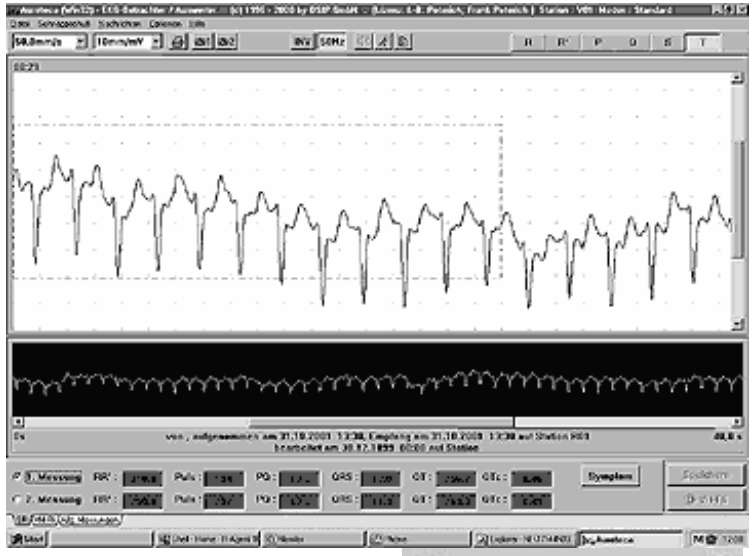
im Notfall





elektronisches Stethoskop

www.stethographics.com



GPS
monitoring

das Herz-Handy

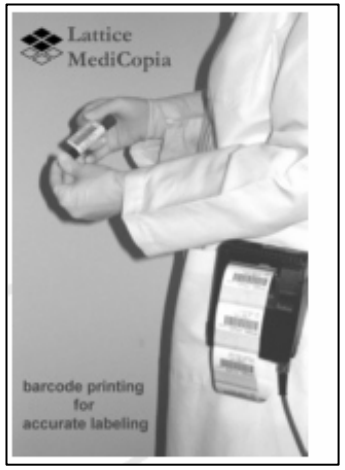
„spezifische“ Anwendungen

www.lattice.com

Blood Bank. The growth in the number of autologous blood donors in recent years has provided the blood bank with increased incentive to adopt bar code and mobile handheld computing technology. The issues faced here are even more serious than in the laboratory. In the blood bank, the result of an error can often result in the loss of a patient's life.

> An elderly man died at a New York medical center when he was given the wrong blood during a transfusion mix-up. The hospital blamed two nurses who failed to follow proper procedures during the transfusion. The nurses did not match the transfusion form with the patient's name and medical record number on the patient's wristband. The nurses did not match the blood type with the patient's blood group in the medical record. [6]
>
> The FDA sited a large blood bank for more than 200 violations of federal blood safety guidelines including blood that was ". . . mixed up and subsequently sent out. . ." with incorrectly labeled blood types. [7] Since the beginning of 1990, over 25,000 mishaps have occurred. [8] There is also the most dreaded complication of blood transfusion: acute hemolytic reaction. Most of these reactions are the result of human error, such as the transfusion of properly labeled blood to the wrong person, improper identification of pretransfusion blood samples, or clerical errors occurring within the blood bank. [9]

When patients are admitted to the hospital, the bar coded ID number on their wristband allows virtually fail-safe matching of patient and blood.



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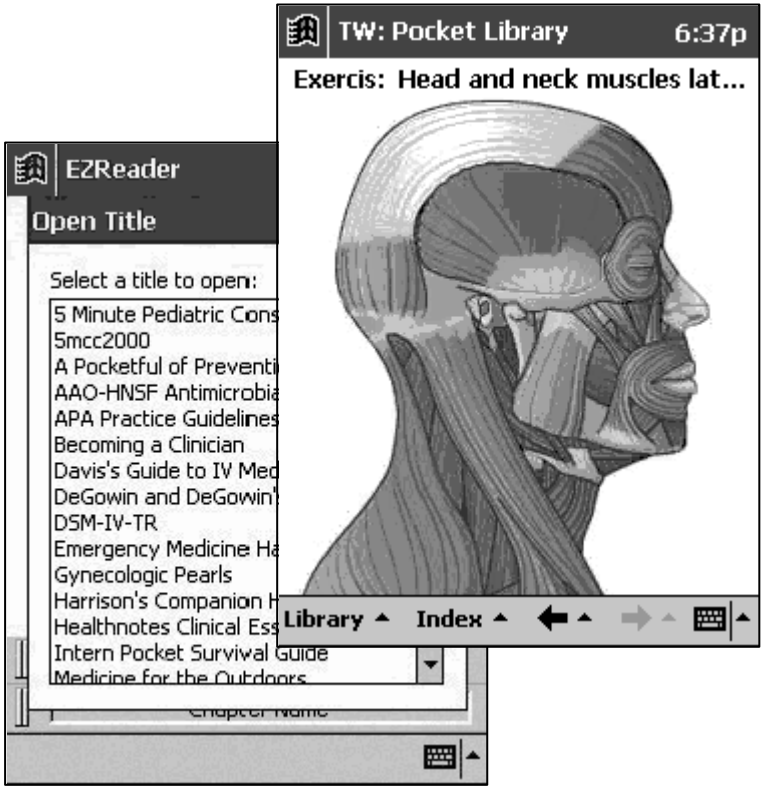
medizinische Nachschlagewerke



Allscripts' Pocket Anatomy
www.allscript.com

medizinische Dokumentation

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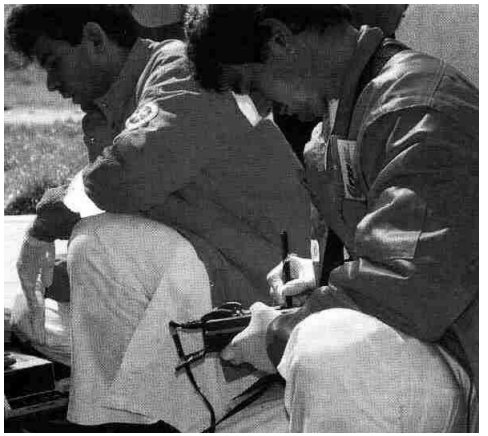
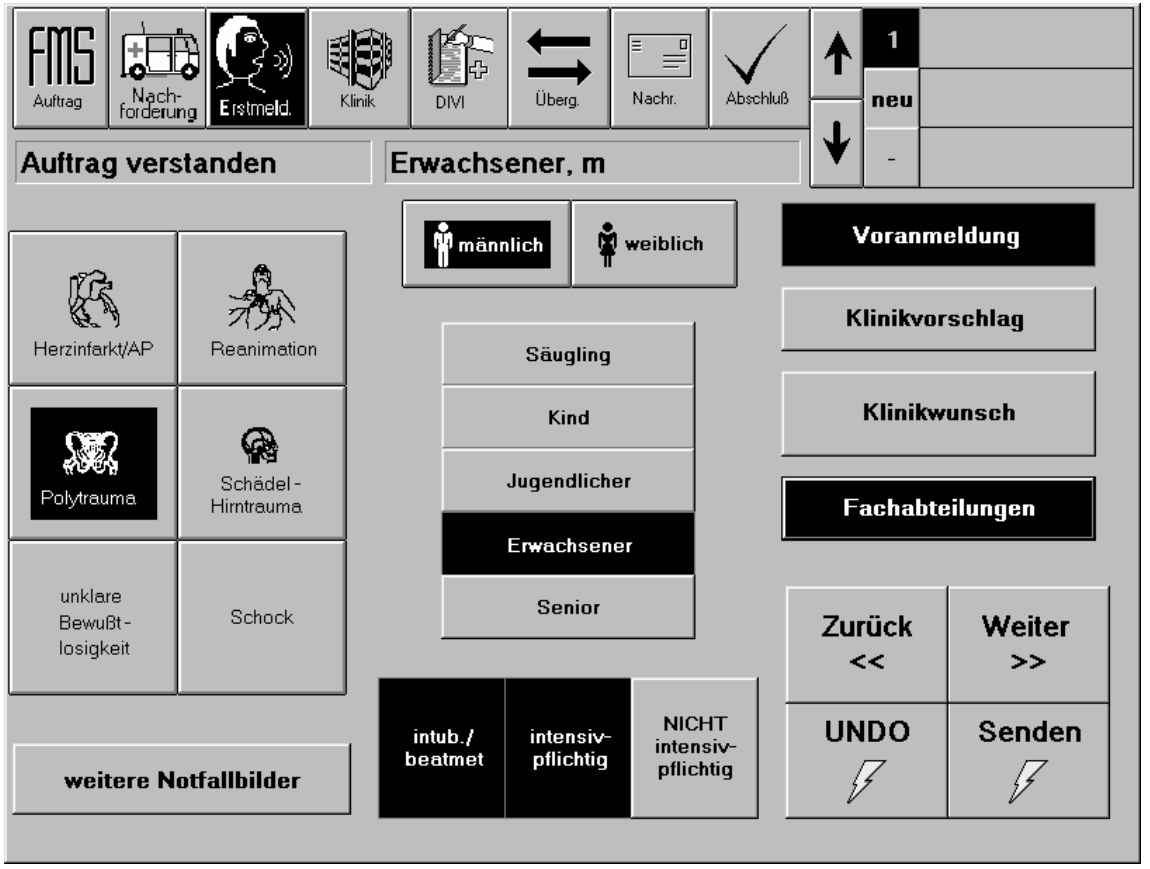
M. Reng, Regensburg

Telemedizin

im Notfall schneller mehr Daten



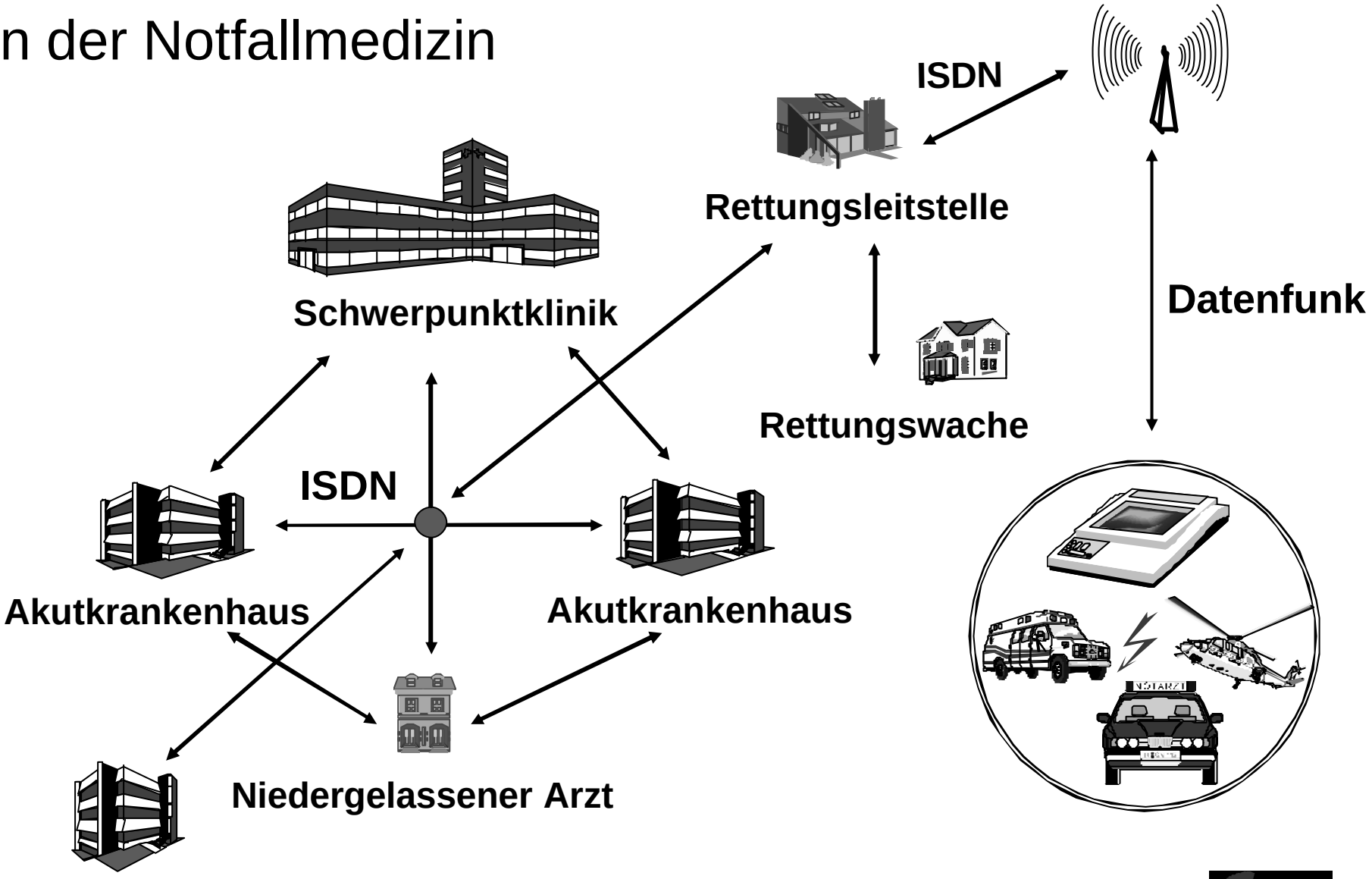


ist unsere Hardware “hard” genug

waterproof, shockproof

www.toughbook.com

Kommunikations- und Informationsnetzwerk in der Notfallmedizin



ist eine umfassende Vorab-Information ökonomisch?

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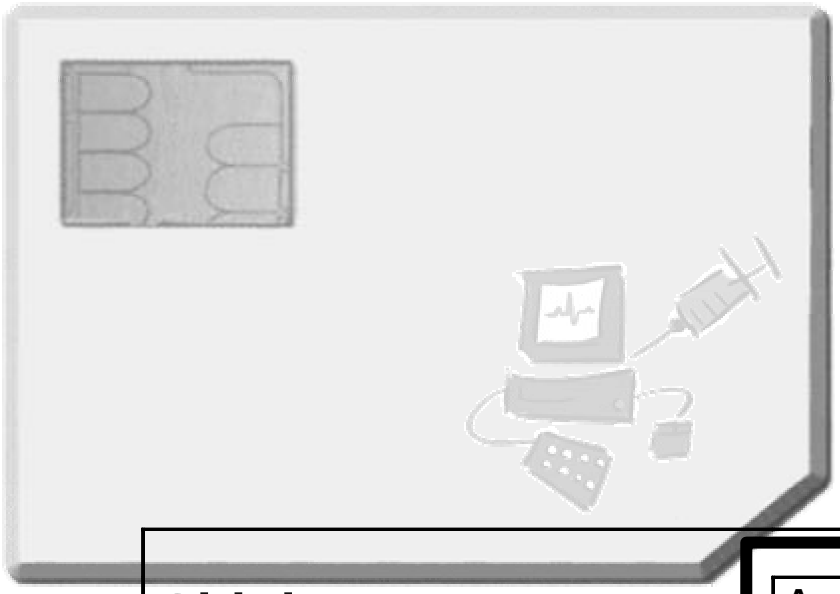


Gesundheits-karte

Chipkarte

evtl. verschlüsselt
oder nur mit PIN zu lesen

Nutzbar nur in Verbindung mit
Health Professional Card (HPC)

Arzneimittelfach	**Notfallinformationen**
Weitere Gesundheitsinformationen/-karten/-pässe	**„Blind-/Tresorfachfach“**
Elektron. Rezept	**Arztbrieffach**
Verweis/Pointerfunktion	**Patientenaufzeichnungen**
Administrative Daten	

Kopie zur Sicherheit bei Trustcenter oder Arzt des Vertrauens
Patient erhält auf Wunsch schriftl. Ausdruck bei Arzt / Apotheke

Automatischer Abgleich

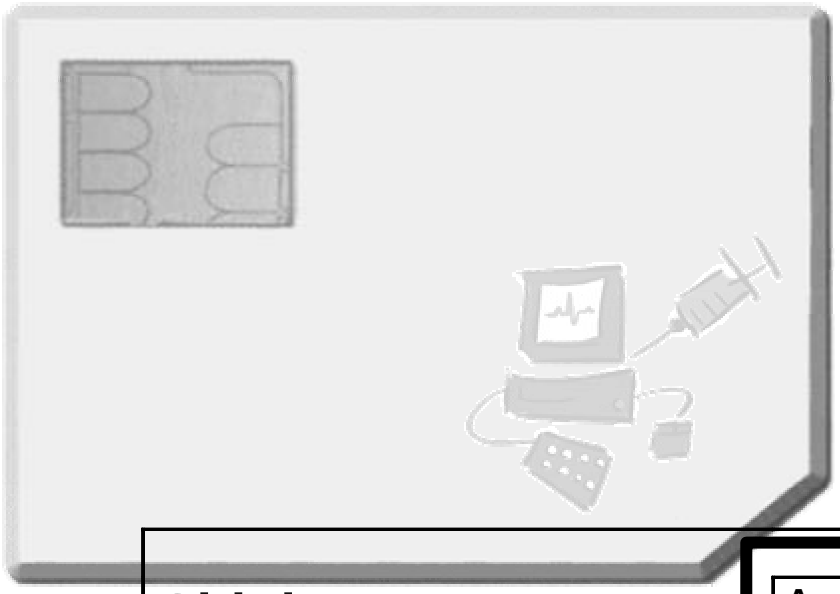
???

- Nebenwirkungen
- Wechselwirkungen
- Kontraindikationen

Mit dem neuen System wird die Qualität der Arzneimittelversorgung verbessert: Prüfungen auf Wechselwirkungen von Arzneimitteln und Kontraindikationen können durchgeführt und daraufhin Warnhinweise erzeugt werden. Diese Prüfungen sollen Ärzten und Apothekern zur Verfügung stehen und – das ist ganz wichtig – automatisch erfolgen.
Dazu werden die Arzneimittel des Patienten und bestimmte Patientenmerkmale auf seiner persönlichen Krankenversichertenkarte gespeichert. Dies setzt voraus, dass der Patient diese Dokumentation wünscht. Zu empfehlen ist diese Dokumentation besonders den chronisch kranken Menschen, die viele verschiedene Medikamente brauchen und auf eine abgestimmte Arzneimitteltherapie angewiesen sind.

- Wissen ist Macht
- Beschränkt zu wissen ist Ohnmacht
- Wissen beschränken ist Übermacht

(Oettinger)



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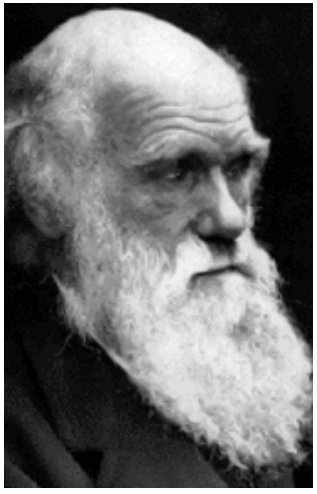
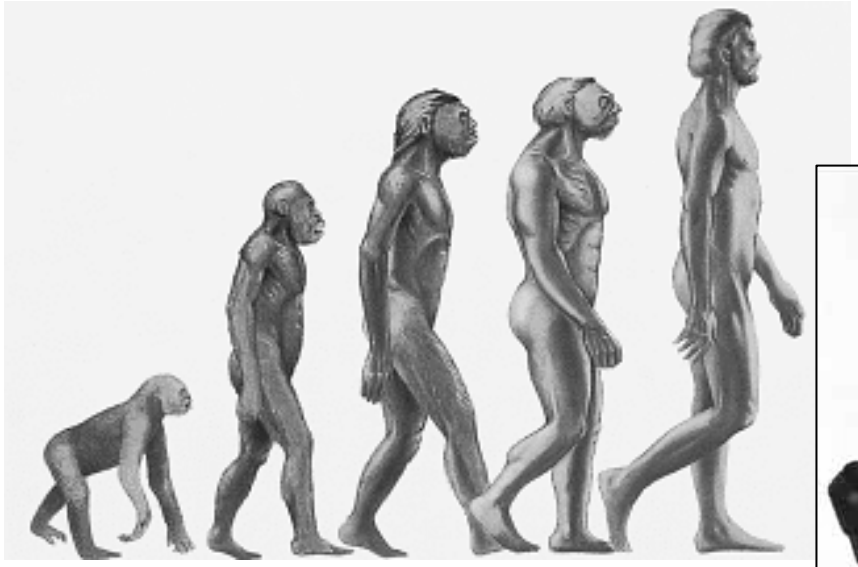
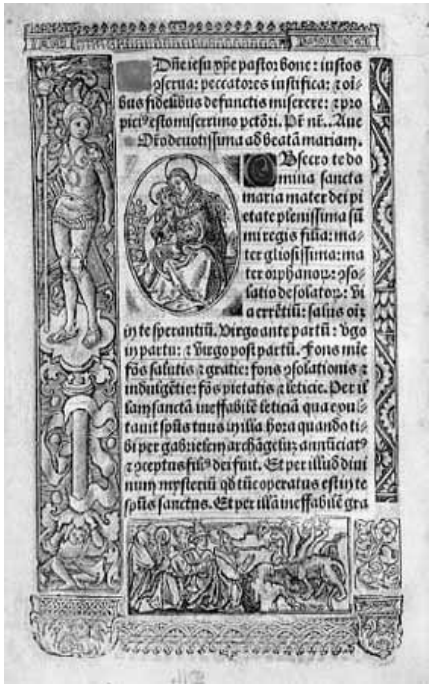
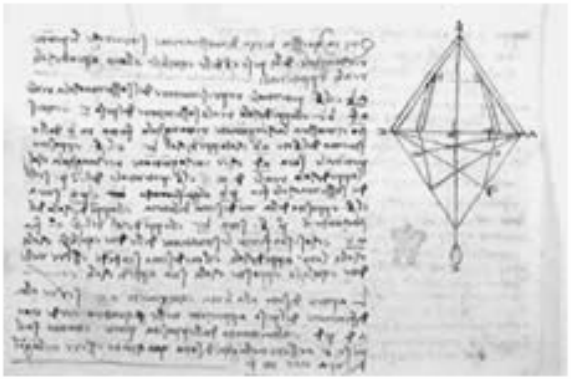
Arztbriefe müssen auch gelesen werden…

Evolutiuon der Telematik



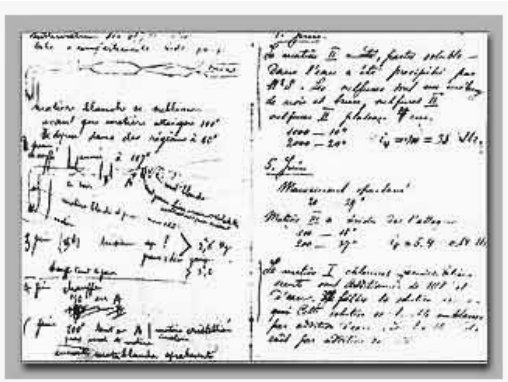


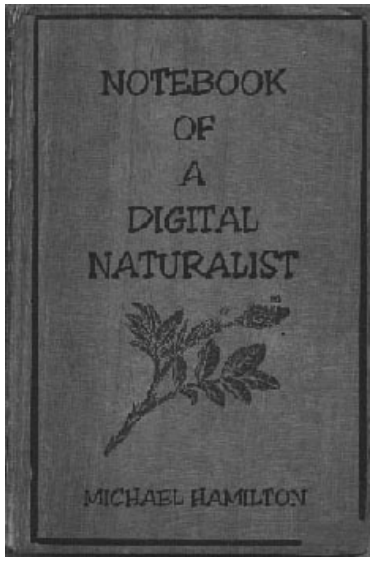


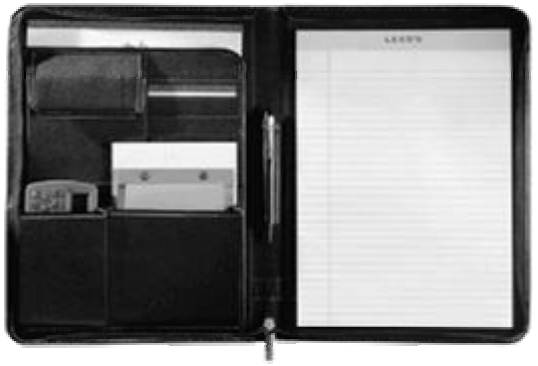


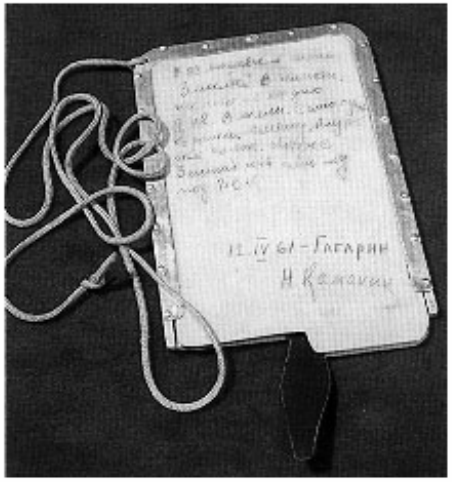
8–15 zinsige Schatzanweisung des Deutschen Reichs
1923 Ausgabe II
über 100000 M.
Einhunderttausend Mark Reichswährung
№ 474638

evolutionary formats









Ökonomie in der Telematik

- ist nicht eine Frage der Technologie
  - wireless smart mobile
  - multipurpose potable portal solution
  - multimedia web-based network
- ist nicht eine Frage der Applikation
  - platform-independent
  - pure-JAVA XML-client
  - intuitive interactive interface

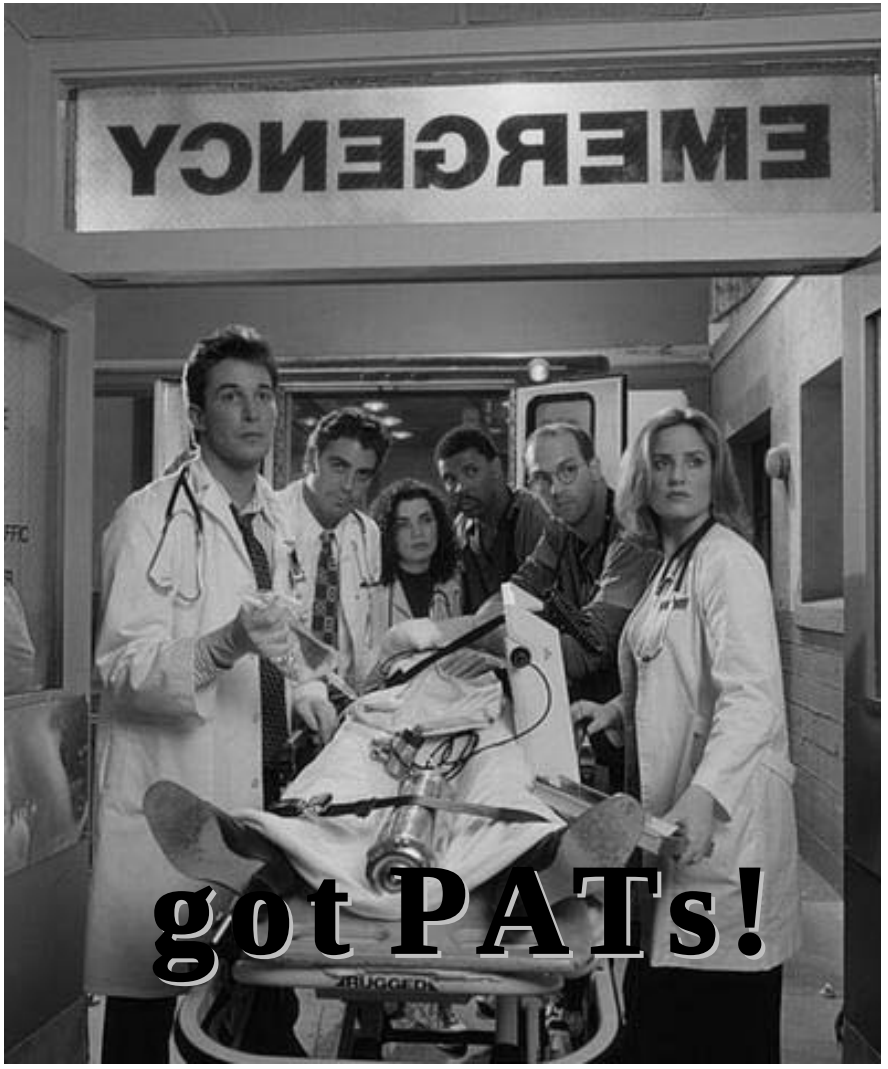
Ökonomie in der Telematik

- ist ausschließlich eine Frage der praktischen Nützlichkeit
  - “Mehrwert” gegenüber existierenden Lösungen
  - “ROI” für erforderlichen Mehraufwand
  - “total cost of usership” im konkreten Nutzungsszenario
- die Nützlichkeit definiert der

Nutzer

Ökonomie ist immer eine Frage des geeigneten Equipments

Zusammenfassung

- computers are only needed
  if there is something to compute
- don’t use computers
  to do work
  you did not have before
- perform eminence based computing

fragen Sie die Anwender...