„CANIS – Mobile Notfallprotokollierung: Systemlandschaft und Human-Computer-Interfaces“

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CANIS

- **Research project** financed by **Austrian Research Promotion Agency (FFG)** – **FH Plus program**

- **Cooperation Partner:**
  - Ilogs information logistics GmbH, Klagenfurt, Austria
  - Carinthian Chamber of Physicians, Department for Emergency and Rescue Services

- **Additional Partner:**
  - University of Klagenfurt, Klagenfurt, Austria
  - Vienna General Hospital

- **2-year project** (August, 2005 - July, 2007)
CANIS Goals

Motivation

- **Increase quality** of
  - patient's treatment
  - documentation

- **Extend digital documentation**
  - various data input modalities
  - synchronous data recording (speech recognition)

- **Bi-directional communication**
  Hospital ↔ Emergency Physician (EP)
  - patient's health status, blood group
  - allergies, pre-medication...

- **Assessment of**
  - **feasible mobile devices**
  - to support **data entry** for
  - **electronic medical response systems**
  - with the **emergency physician** as primary actor
Data Security

Legal security requirements: differ from country to country

1. Authentication
2. Confidentiality
3. Integrity
4. Liability
5. Availability
Hardware Requirements

- Display
- Weight
- Protection & Operating Conditions
- Power Supply
- Connections
Results

- Full-functional basic system by ilogs GmbH
- Successful pilot phase in Graz (6 months)

Prototypes for various Setups
Conclusion

• Main priority
  – to rescue/save lives
  – to minimize damage to life and limb

• Improve quality of
  – Patient‘s treatment
  – Documentation

  Through: digital data acquisition

• Usability issues
• Acceptability
Thank you for your Attention!

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