

# EASYASSESS

## DEVELOPMENT AND EVALUATION OF A WEB-BASED APPLICATION FOR DIGITAL FINDINGS AND DOCUMENTATION IN PHYSIOTHERAPY EDUCATION

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# MOTIVATION - 1

## BACKGROUND

### Cooperation

- Institute for eHealth
- Institute for Physiotherapy

### Study course of Physiotherapy

- Use of a paper based general finding report
- Multidisciplinary: For all investigations
- Starting point for the Java based web-application EasyAssess - a tool for reporting physiotherapy documentations online



# MOTIVATION - 2

## RESEARCH TOPIC

### Challenges

- Standardized documentation in Physiotherapy
- Quality assurance and reducing the workload
- Transparency of clinical decisions
- Acceptance of new technology
- Interoperability

### Key question

- What steps are necessary for a successful implementation of a web-application for diagnostic assessment in physiotherapy education?



# RESEARCH DESIGN AND RESULTS - 1

## EASYASSESS

### Requirements

- Functionality: Security, data protection

### Efficiency, effectiveness and usability

Nr.	Deployment	Subject group	Usability-Test
Beta-Version	February 2014	52 Students from PTH11	Use during internship, online survey
Version 2	May 2014	Subjects from PTH	Moderated usability-test
Version 3	August 2014	Self test by developer	Heuristic evaluation WCA-Guidelines

EA easy assess

Abmelden

Angemeldet als: Larissa Lang

## Übersicht PatientInnen

← Zurück zur Übersicht

Name	Geburtsdatum	Hauptzuweisungsdiagnose	Erstellt am
A. T.	23.04.1995	Tracheotomie nach subglottis Karzinom	16.08.2014
B. E.	11.12.1967	Kniepatient	17.08.2014

Anmerkungen von BetreuerInnen: Bitte ergänze die PatientInnen aus deinem zweiten Praktikum!

✓ Symptom-Nummer: S1 S2 S3 S4 S5

Ziehe die Elemente auf das Body Chart und zeichne mit dem Mauszeiger die Merkmale ein.

### Auf ICF-EBENE Struktur – Body Chart

✗ Symptompunkte zurücksetzen ✗ Häkchen löschen ✗ Skizze löschen

## B. E.

### Planung der Untersuchung: Hypothesen

← Zurück zur Übersicht Zurück Weiter

Hypothesen hinzufügen:

1

2

3

4

5

6

7

8

physische Beeinträchtigung und assoziierte Ursachen in den Strukturen/Geweben

3

Sensibilitätsstörung + Hypothese hinzufügen

Hypothesen	Bestätigung	durch Test / Bemerkungen
peripherer nozizeptiver Schmerz	✓	
Wundheilungsphase?	■	neue Hypothese: Sensibilitätsstörung
Zelluntergang, fehlender Abtransport   lymphpflichtiger Last	✓	Abtransport notwendig!!

Inhalte speichern



## RESEARCH DESIGN AND RESULTS - 2

### ADDED VALUES

- Easy access and distribution through web portal
- Efficient patient management
- Create a clinical documentation with one click
- Interactive assessment and feedback loops
- Reduction of bureaucracy and format effort
- Stick to statutory requirements and standards
- Familiarity with the existing finding
- Follow a clear didactical path (CR-cycle)
- Usage on tablet and smartphone



# FUTURE PERSPEKTIVE

## EDUCATION AND COMMERCIAL USE

### State-of-the-art learning tool for physiotherapy education

- 6<sup>th</sup> semester students: Obligatory during their internship
- Autumn: Every class inserts findings in EasyAssess

### Commercial versions

- Extended student version (app)
- Trial version for outpatient clinics (students internship)
- Versions for therapists, patients
  - Interfaces: Automatically billing support and feedback from doctor,
  - ELGA, hospital information system

### Benefits approved through:

- Collaboration with degree program PTH, experts and students
- Usability testing

### General tool for standardized documentation in Physiotherapy