DIGITAL INNOVATION BOARD:
EXPLORE

PROJEKTNAME   Power Rangers
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TRENDS & TECHNOLOGIE

→ Automation
→ AR/VR
→ wearables (wearable sensors for easy data collection)
→ Database supported documentation (based on keywords)
→ exercise suggester
→ Sensors
→ blockchain
→ The Performance Matrix
→ Gait Scanners

POTENTIELLE PARTNER & WETTBEWERB

→ Physioswiss
→ Who
→ ZHAW
→ Insurance Companies
→ Documentation for other medical fields (in case system is extended)
→ Sport Institutions (EHSM)

→ Kuramed
→ Physiosys
→ Appointmed
→ Physiotec
→ Patientassist

FAKTEN

→ 66 % work independent
→ 32 % are employed
→ 2 % combined

→ physical records 60.5%
→ electronic records 34.7%
→ combined records 4.8%
→ Fast way of documenting (documentation is not always paid)
→ Session lasts 20 to 25 minutes
→ 43 Median age

→ Computer used to take notes 5.7%
→ Computer used to take measurements 15.1%
→ 84% of physiotherapists do not know legal requirements for a documentation
→ Physiotherapy is 21,2 % of all medical services
→ Not paid: Working in Practices
→ Paid for documentation part: hospitals + clinics

→ Musculoskeletal 51.1%
→ Neuromuscular 3.1%
→ Internal system/cardio-pulmonary 45.8%

POTENZIALFELDER

→ Physioswiss
→ Klinik
→ Praxis
→ Home (Exercise)

→ Neurology
→ Musculoskeletal
→ internal medicine (corona)
→ Older people
→ Paediatrics
→ Private practice
→ Sports
→ Jaw Specialist

USER(S)

→ Therapist
→ Hospitals
→ Clinics
→ Practice
→ Private practitioners
→ Nursing homes

→ Science community
→ Educational Institution
→ Teacher and student
→ PhysioSwiss
→ Patients

NEEDS

→ Personalized and flexible structure for documentation
→ System that provides data for scientific community
→ A tool that could contribute to relationships between therapist and patient
→ Legal sufficiency of and security through documentation
→ Data security
→ Mobility of using the tool for documentation
→ Faster way of documenting (during the session)
→ Fast access to patient's treatment history
→ Indication of mental state of patients
→ Easier way to share and show exercises to patients
→ Fast information processing
→ Drawing and visual representation options
→ Visualizing of progress for motivation of patients

INSIGHTS

→ Each physiotherapist has his own „way" of documenting, and would like to switch to a tool that would work in a familiar for him way
→ Nowadays for therapists it is important to keep personal connection with a patient
→ More attention is paid to Mental Health of patients. Mental state plays an important role in a process of creation treatment plan
→ Realization of success is very important for patients. Older people like to see their progress and statistics.
→ Therapists working in a praxis are not paid for documenting part.
→ Flags to categorize mental influences of patient = Red: Disease, Yellow: Mental, Blue: Work or Relations
→ Speech-to-Text not suitable because of patient observation.
→ Patient Relationship are essential part of successful therapy.
→ Measuring, ganglabor and exercise observation through technology can improve documentation
→ improved documentation with explicit data helps to strengthen professionalism and reputation
→ Most of therapists prefer a structure familiar for them. They would like to have flexibility in documenting process.
→ Through changing educational system specifications will extinguish (ZHAW uses Maitland-Concepts)
→ Personalisation: Subgroups of physiotherapy
→ Digital documentation is proffered by therapists because of reliability in a long term.

TOUCHPOINTS

→ Tablet
→ Keyboard
→ Stylus
→ Phone (for the Users at home)
→ PC

→ Wearable
→ Sensors
→ Camera

→ Web-Interface
→ E-Mail

→ Video & Photo

HOW MIGHT WE

→ How might we providing valuable data for further scientific research?

→ How might we develop an application that is personalised with high quality tools, which enable faster & more detailed documentations?

→ How might we design a tool that is simple and provides the benefits of the latest technology?

→ How might we create an application that brings together the benefits of analog and digital?

→ How might we develop a database for documentation based on an algorithm and keywords?

→ How might we bring all the involved instances together to work simultaneously in a universally understandable manner?