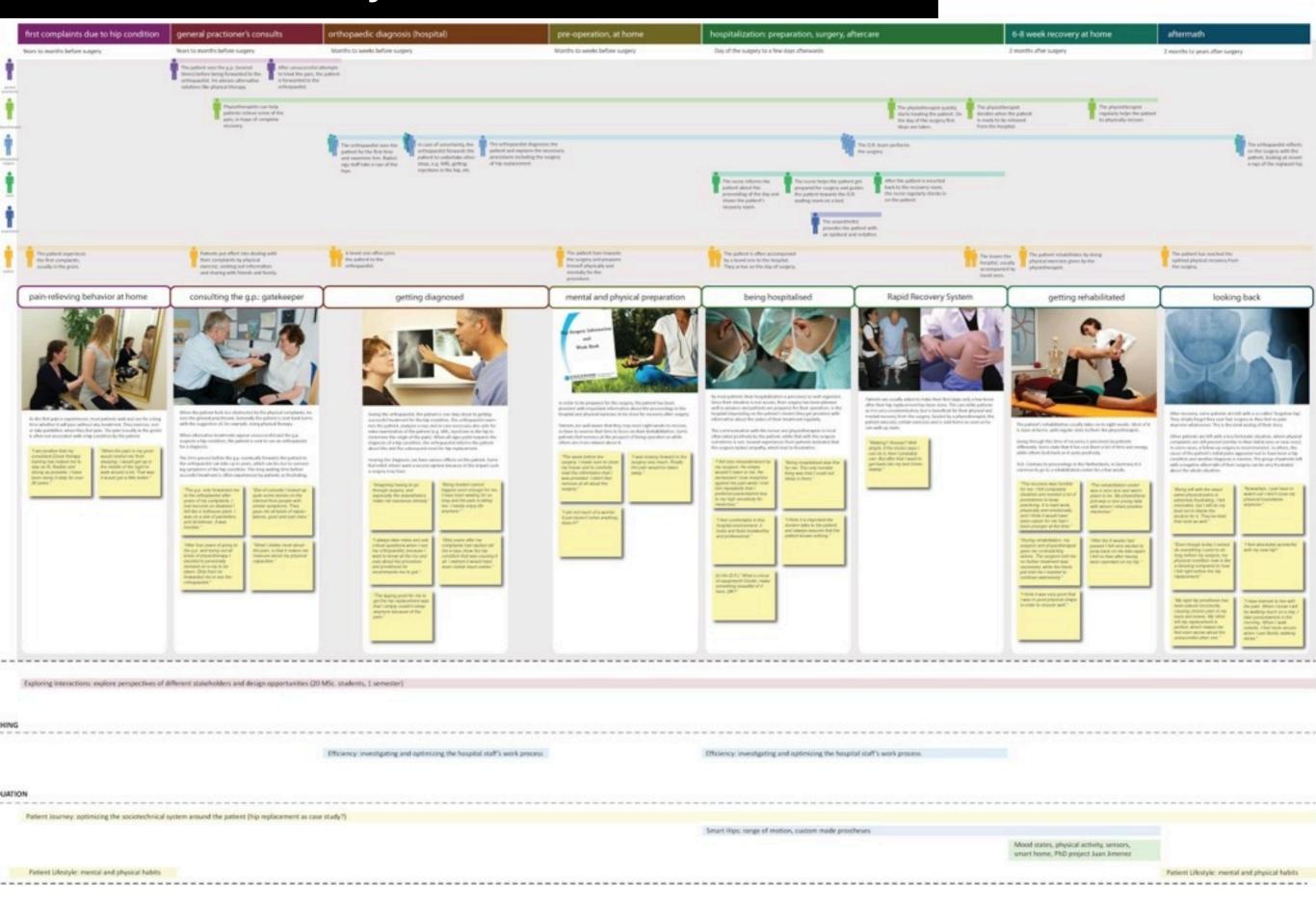
ID 4250 Exploring Interactions Moving myself

Patient recovery: Self-management

Final presentation Tommie Varekamp

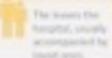
Patient recovery



Patient recovery



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Current situation

Patient concerns:

- When should I stop and rest?
- Should I exercise more?
- How far should I go?
- How did I perform this day?

Unawareness or doubts about personal limits and progress



Design goal



To support the self management of patients:

"Create awareness about the personal progress and limits of patients while taking into account the role of the physiotherapist"

Interaction vision

Feel the satisfaction of pushing your limits with small steps at the time

Interaction vision

Feel the satisfaction of pushing your limits with small steps at the time



Qualities: Personal Subtle Supportive Evocative

Too much intensity

General Activity

Not enough activity

Too much activity

Not enough intensity

Exercise intensity















Conclusions:

- Different kind of pulses to attract attention
- Warmth and tactility of the material are important aspects











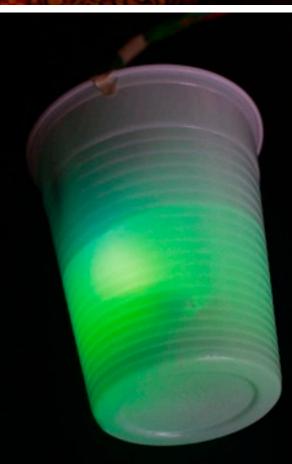
Conclusions:

- One shape that can be hold in different ways
- Color feedback can be explained in different ways.









Final design



Components:

Measuring sensors are integrated in the support stockings

Wearable clip provides feedback to patients

Clip and sensors are wirelessly connected

Interaction movie

Final design

Clip:

Feedback is provided by a combination of light and vibration.

Can be placed in different ways on the body.

Thin enough to be placed under clothing.

Size and shape fits the hand palm in different positions

Exercise cards are used to keep track of progress and for information



Evaluation study







Evaluation study

Conclusions:

- All participants related the product behavior to the correct meaning.

- Clear was valued over subtle.
- All feedback was considered positive.

- Own responsibility was considered important and a must.





Further recommendations

Further research the role of the physiotherapists

Further research the parameters that need to be measured

Test the user-product interaction over time