

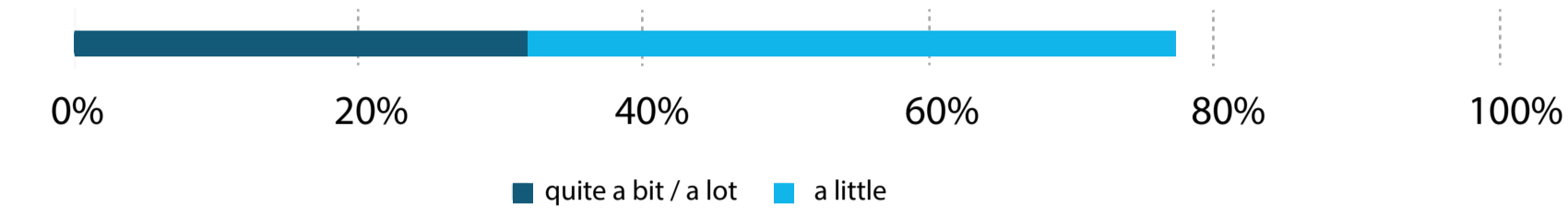
Development of toolkit to monitoring cancer-related fatigue in breast cancer patients

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Introduction

% fatigue after breast cancer diagnosis [1]



Treatments: not effective for everyone

Holistic monitoring > personalized advice > higher adherence, satisfaction, treatment effects

Aims

- 1) Domains of the holistic patient profile (HPP)
- 2) Develop and test toolkit to assess HPP

Methods

1. Design



2a. Toolkit

- Considered methods
- Questionnaires
 - Experience sampling
 - Apps
 - Wearables

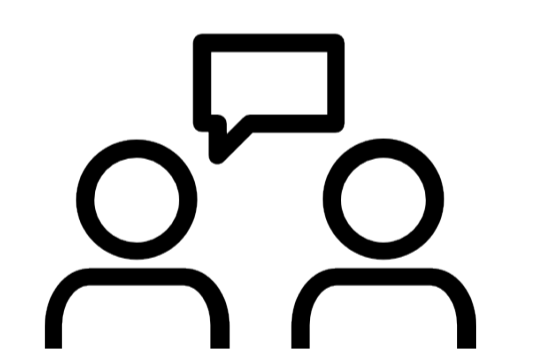
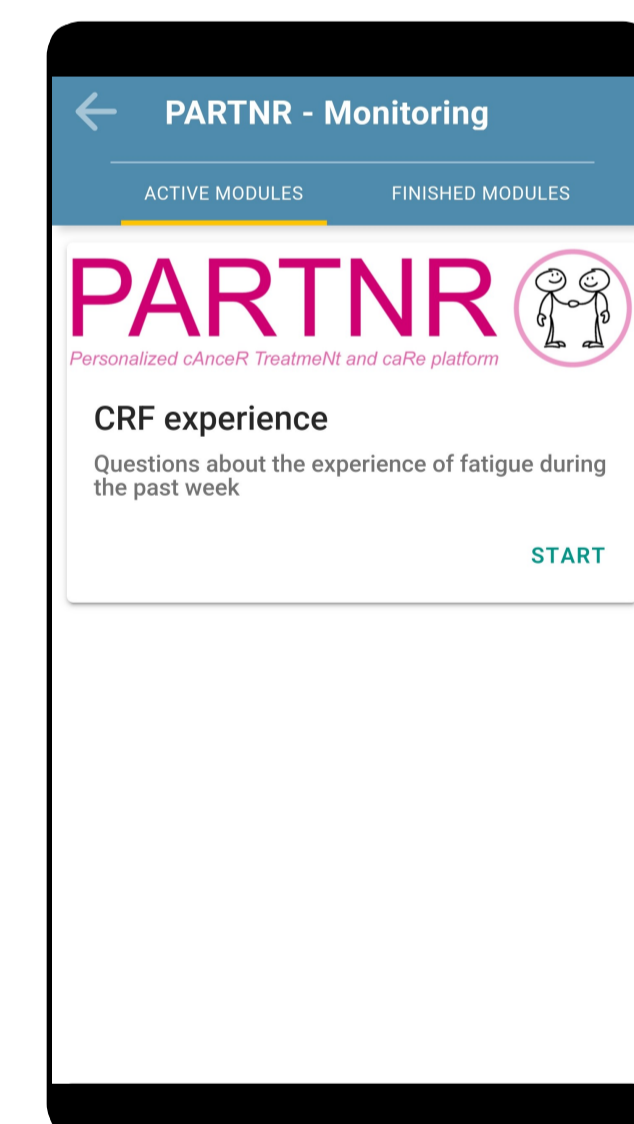
- Preferably
- Dutch
 - Breast cancer patients

- Question selection
- Highest discrimination parameter

2c. Feasibility test

One month usage n=19

2b. User testing toolkit

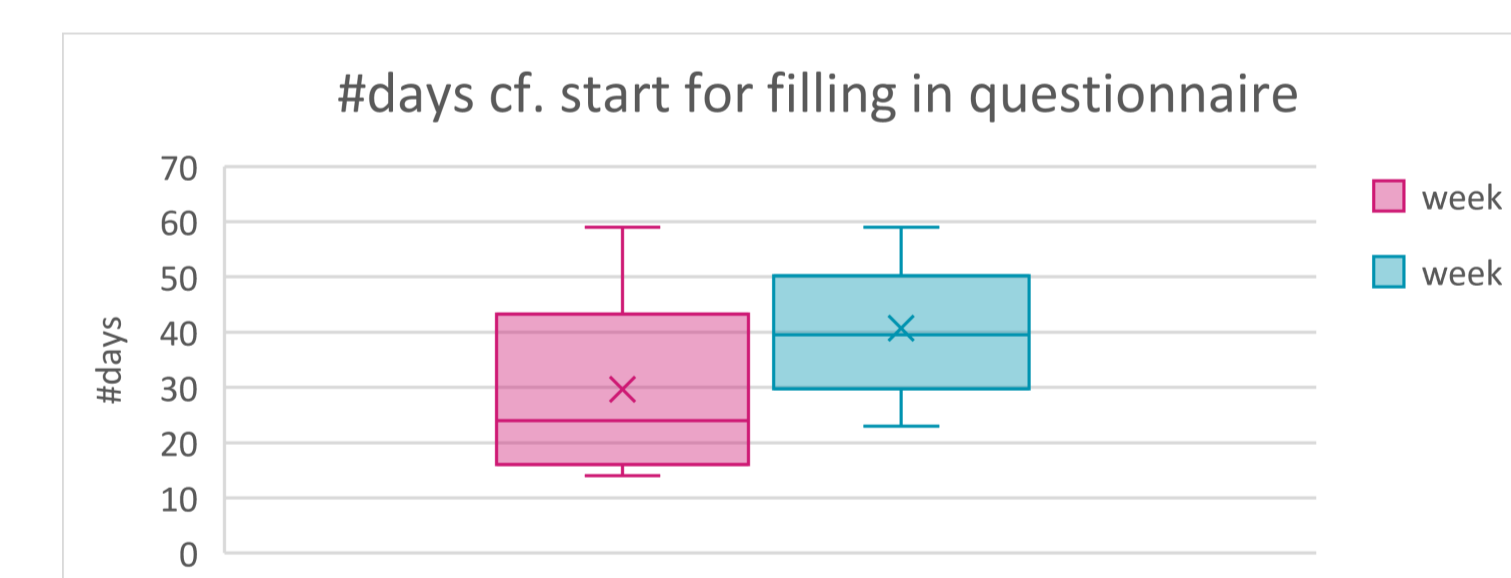
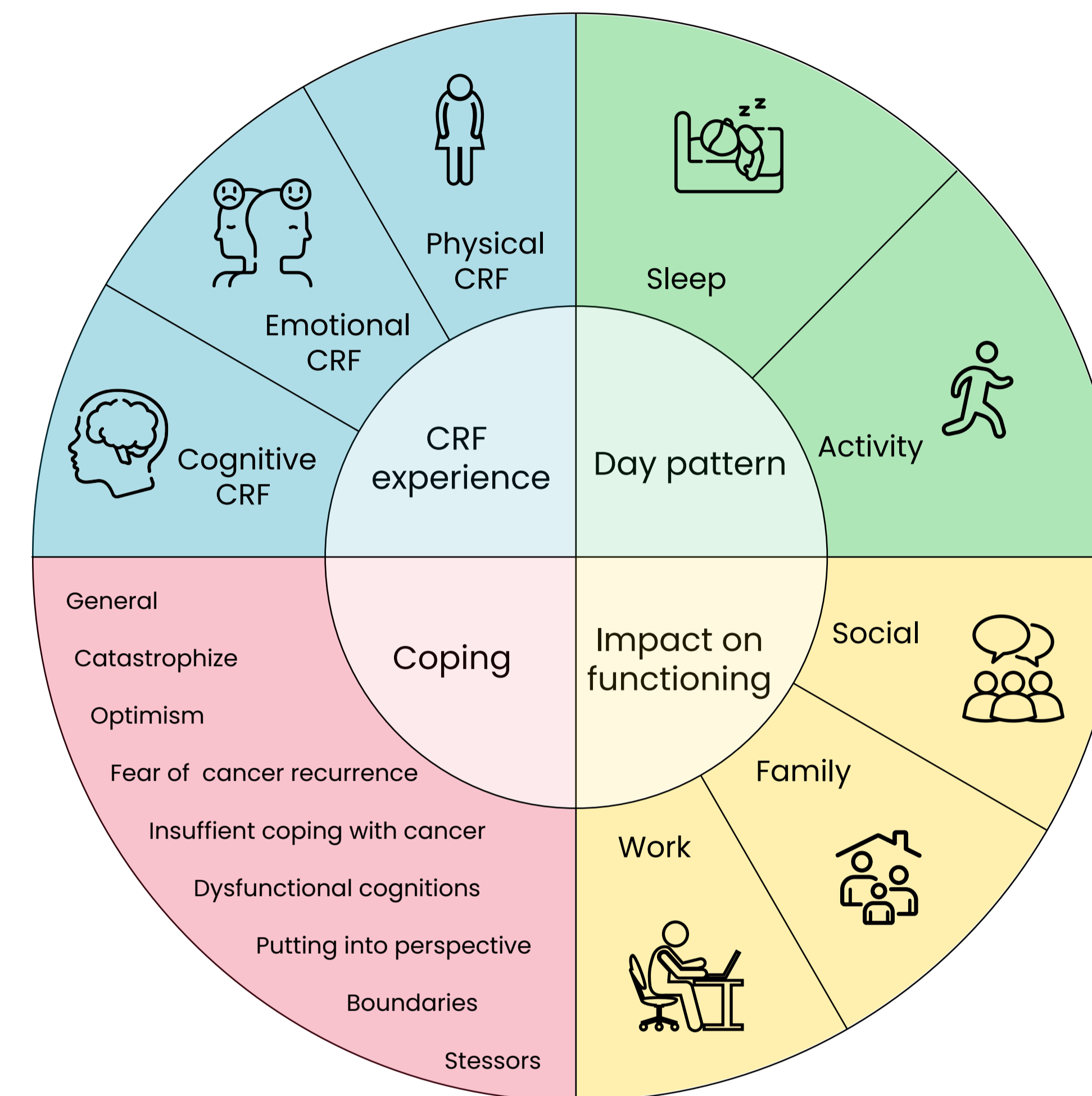


Thinking aloud
n=10

- Usability
- Twente Intervention and Interaction Machine [TIIM]

Results

1. Holistic patient profile



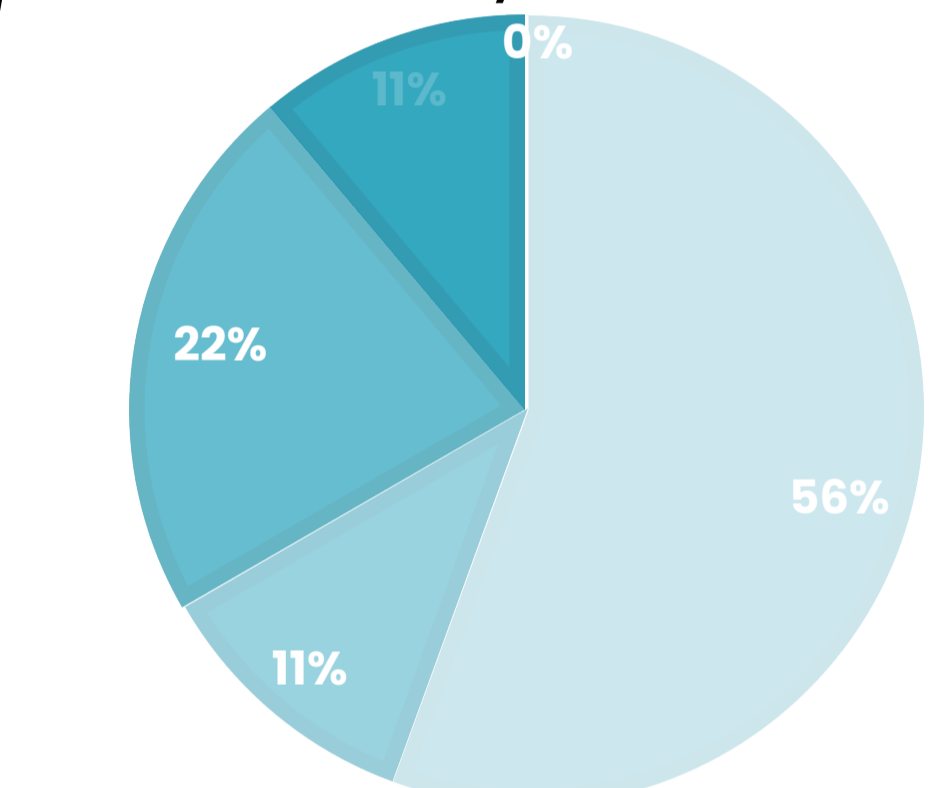
2a. Toolkit

86 questionnaires relevant > based on 25 questionnaires
Onboarding questions > some with deepening domains (*)

CRF experience	20 items
Day pattern*	20 items
Impact on functioning*	15 items
Coping	20 items

2b. User testing

Toolkit easy usable



Only minor textual changes suggested

2c. Feasibility test

- Desired improvements
- Introduction page
 - Reminder for newly available questionnaires
 - Remember login details

Conclusion

First holistic toolkit for monitoring cancer-related fatigue in breast cancer patients

Future studies

- Content validity health care professionals - ongoing
- Longitudinal study to assess variability of toolkit questions
- Ability of wearable to assess day pattern
- Toolkit data visualization

Study partners

UNIVERSITY OF TWENTE. | TECHMED CENTRE

PARTNR
Personalized cAncer Treatment and caRe platform



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Contact us



Presenter