

# A Preliminary Analysis of Older Adults' Reactions to Design Concepts for Physical Activity Support

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## PROBLEM STATEMENT

Older adults living alone often encounter interrelated barriers to engaging in physical activity (PA).

## RESEARCH QUESTION

How can technology be better designed to support older adults living alone in maintaining their PA routines?

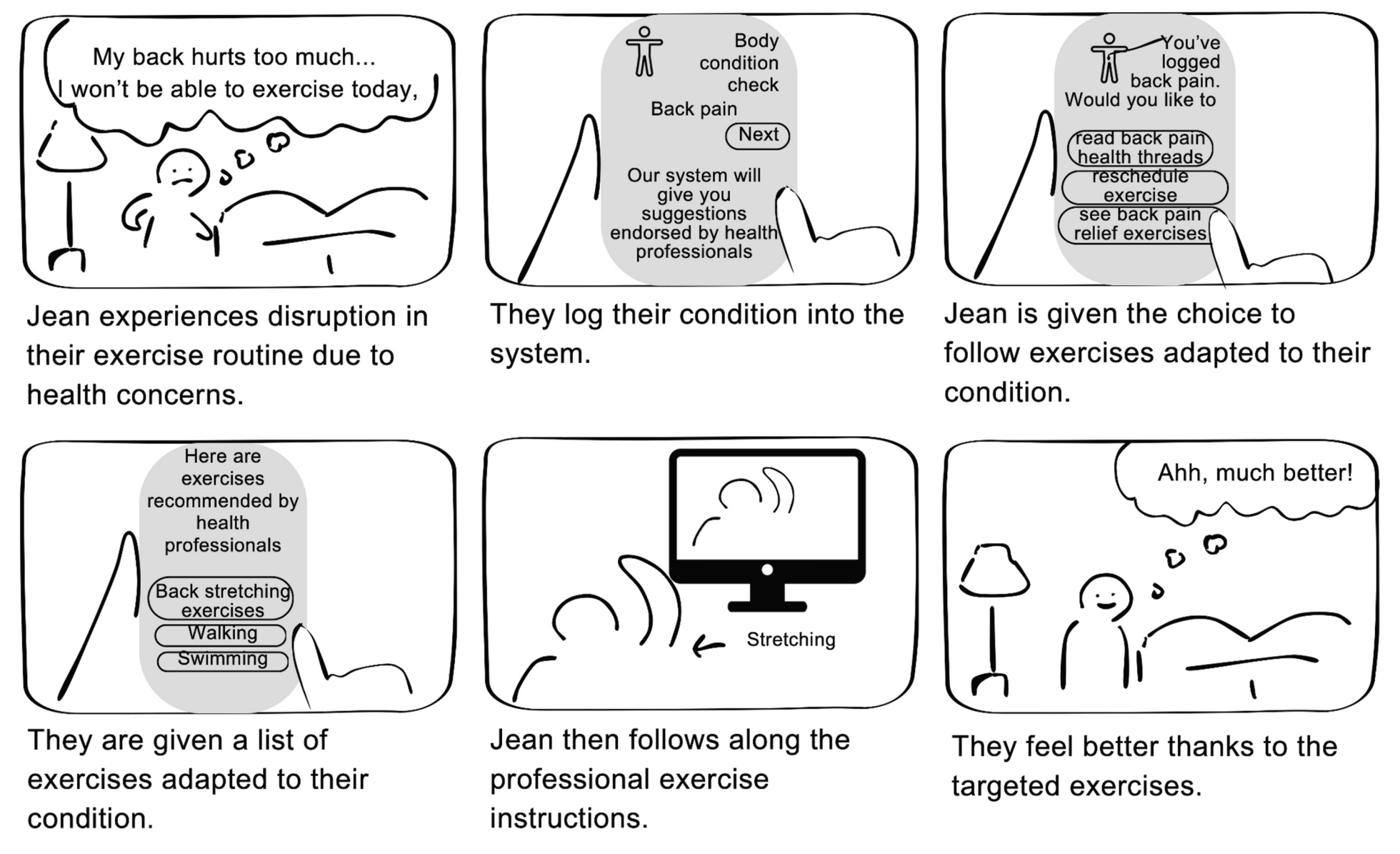
## METHODS

- Semi-structured interview (n=15) to elicit participants' views on 15 design concepts (drawn from prior work [1, 2]) envisioning potential tools for tackling interrelated barriers to PA engagement.
- Questionnaire (5-point Likert scale): perceived helpfulness and perceived intention.

## PRELIMINARY FINDINGS

Participants considered it helpful to provide alternative exercises in response to routine disruptions, while being concerned about the lack of professional guidance.

- Patricia (F, 70): *People who find they can't do one thing might be able to do something else. Doing anything is better than doing nothing.*
- Josette (F, 76): *How I should do it correctly?*

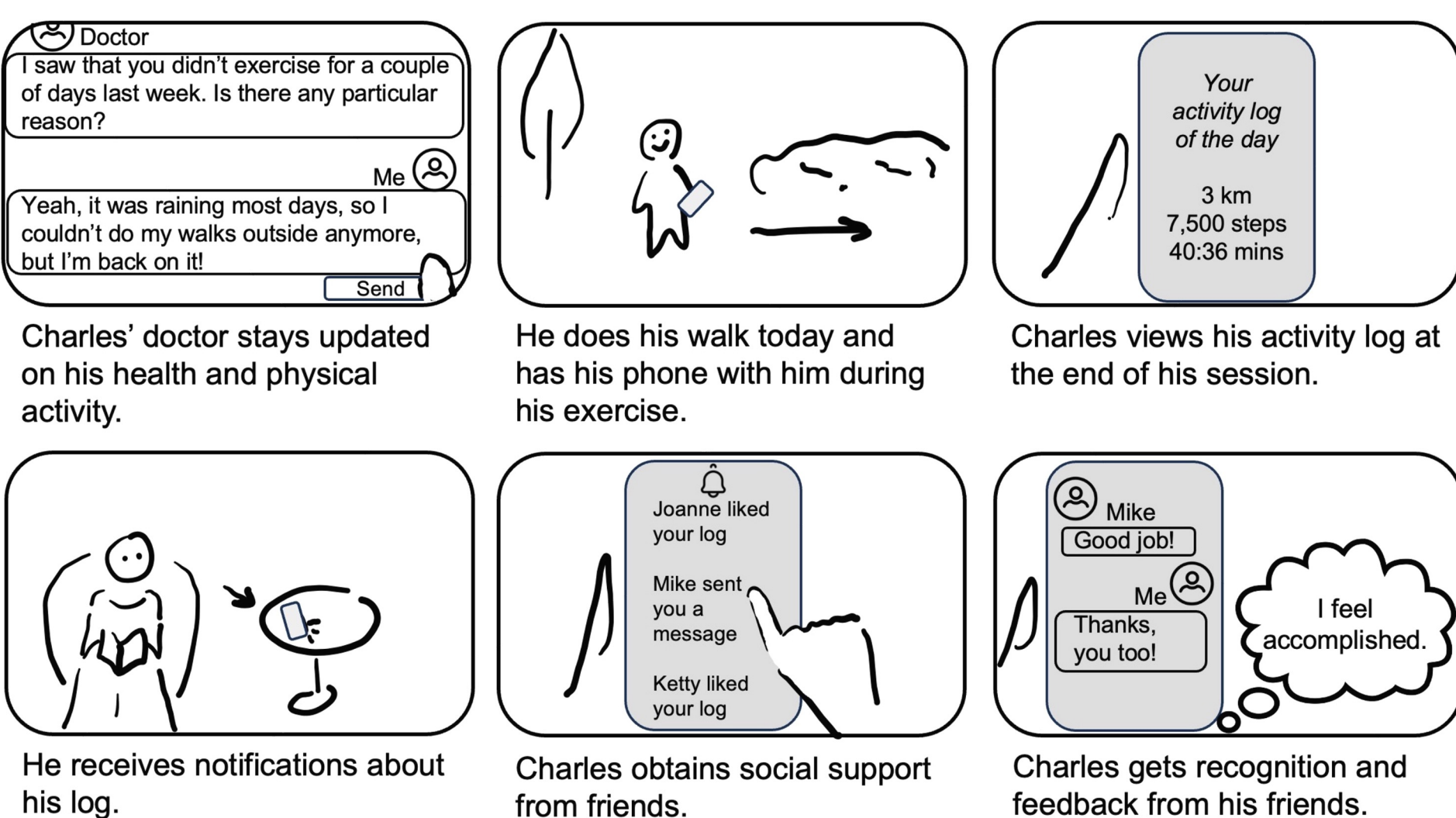


Participants responded least favourably to design ideas about sharing tracked activity data with accountability partners.

- Janet (F, 83) : *I don't need pats on the back.*
- Laura (F, 66): *I don't really have anybody to tell, who would say 'You're doing great.'*

## NEXT STEPS

We will perform a full thematic analysis of the interview data to more deeply understand participants' views on the design concepts and identify design implications for future PA promoting technologies.



## THIS RESEARCH

- **Highlights the misalignment between existing PA promoting technologies and older adults' unique PA needs.**
- **Reinforces the need for specific designs for older adults.**

References

[1] Muhe Yang and Karyn Moffatt. 2024. Navigating the Maze of Routine Disruption: Exploring How Older Adults Living Alone Navigate Barriers to Establishing and Maintaining Physical Activity Habits. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24)*, 2024. Association for Computing Machinery, New York, NY, USA.

[2] Chloe Fan, Jodi Forlizzi, and Anind Dey. 2012. Considerations for technology that support physical activity by older adults. *ASSETS'12 - Proceedings of the 14th International ACM SIGACCESS Conference on Computers and Accessibility*, 33–40.

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