

Perspectives of Different Dementia Stakeholders on Person-Centred AI-enhanced Assistive Technology for People with Dementia

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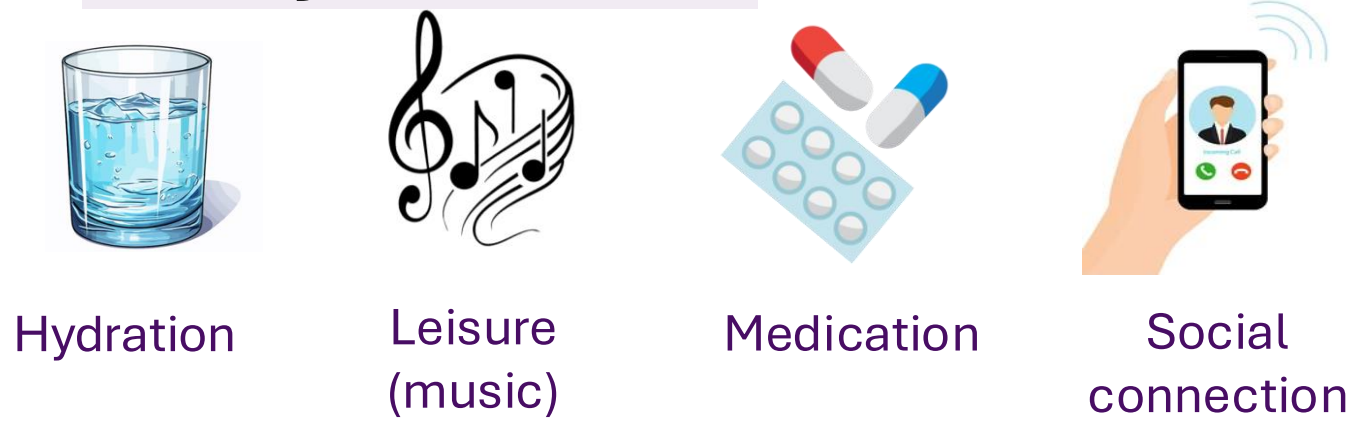
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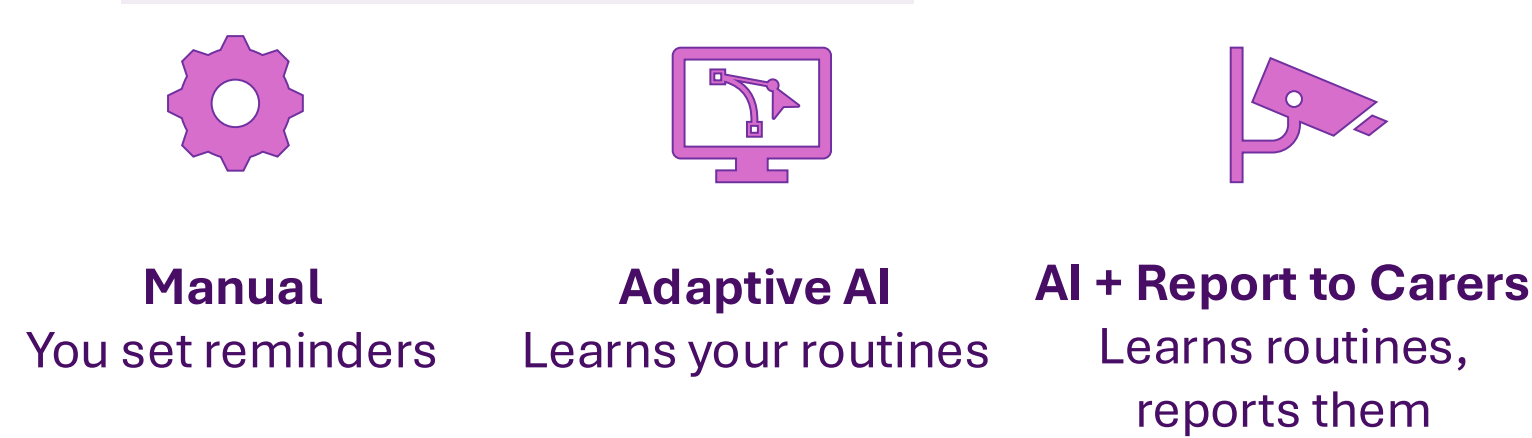
- AI offers new opportunities to support people living with dementia. (Steijger et al., 2025)
- Person-centred design requires understanding the needs and preferences of end users. (Brookman et al., 2023)
- People living with dementia are rarely included alongside other stakeholders when designing AI technologies. (Bradley et al., 2023)
- This study compares perspectives across five key dementia stakeholder groups.

Method

4 daily scenarios:



3 autonomy options:

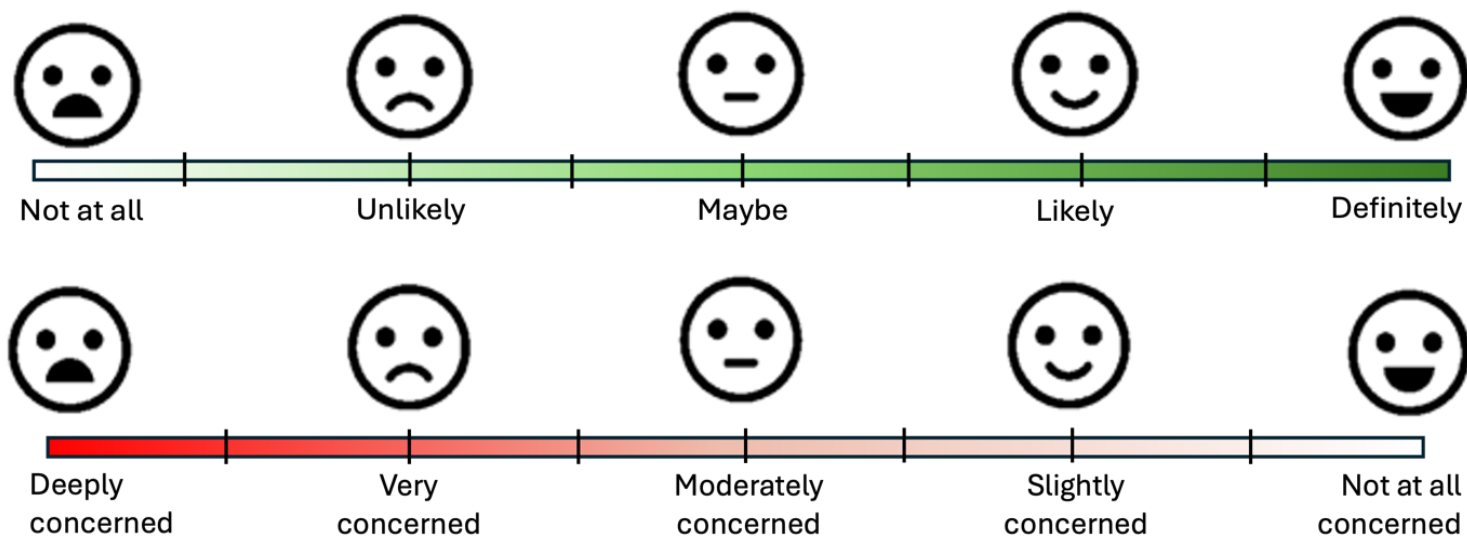


2 types of rating scales:

1. How likely would you be to use this machine?
2. How concerned will you be if the machine makes a mistake?

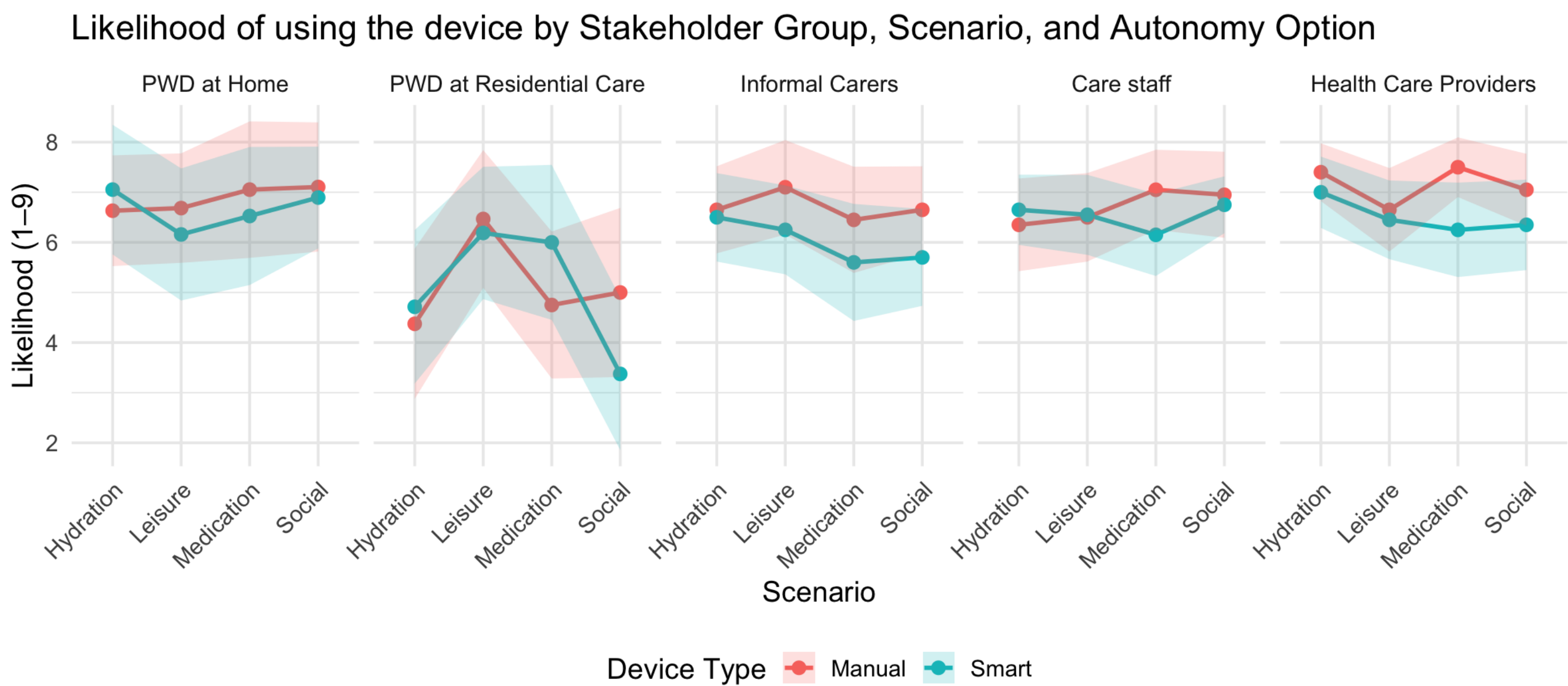
5 groups of participants

People with dementia living at home (Interview)	N=19
People living at residential aged care (Interview)	N = 18
Family caregivers (Survey)	N = 20
Care staff working with people with dementia (Survey)	N = 20
Health care providers for people with dementia (Survey)	N = 20



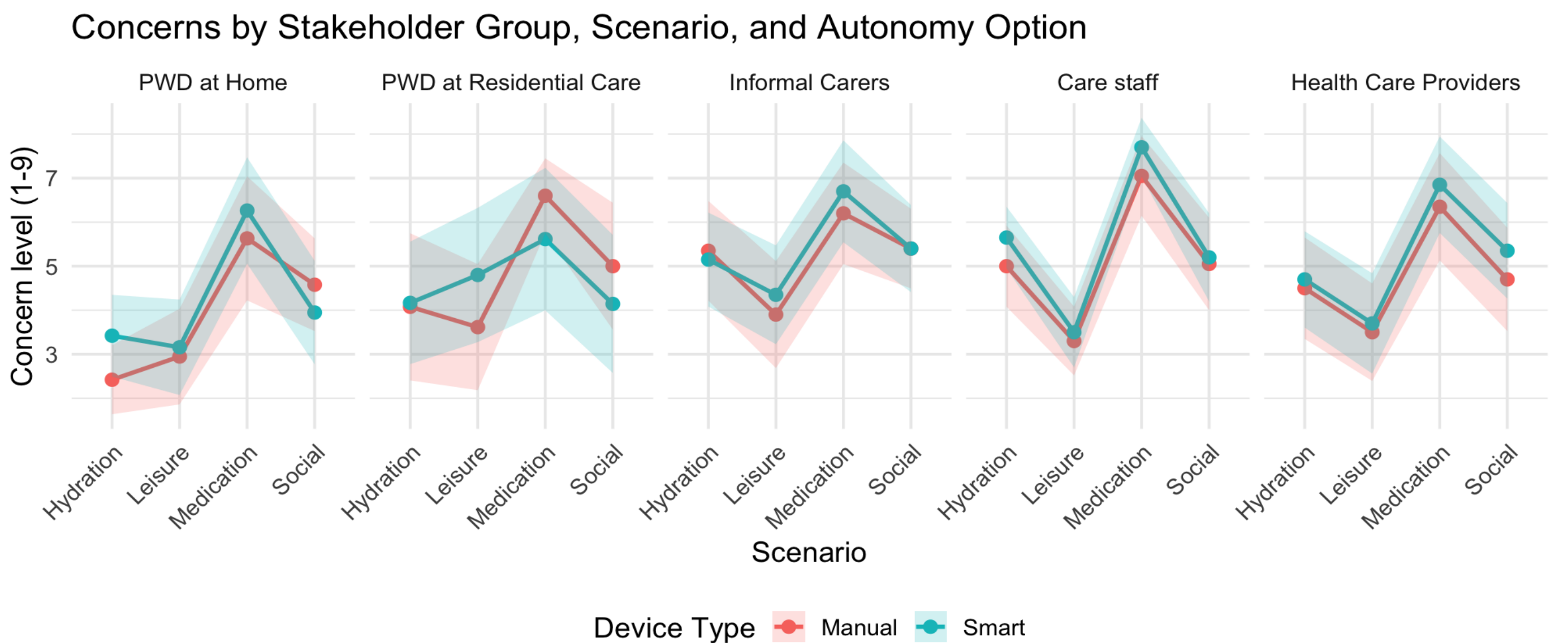
Finding 2

Participants in aged care are least likely to use a device likely to use the device for music



Finding 3

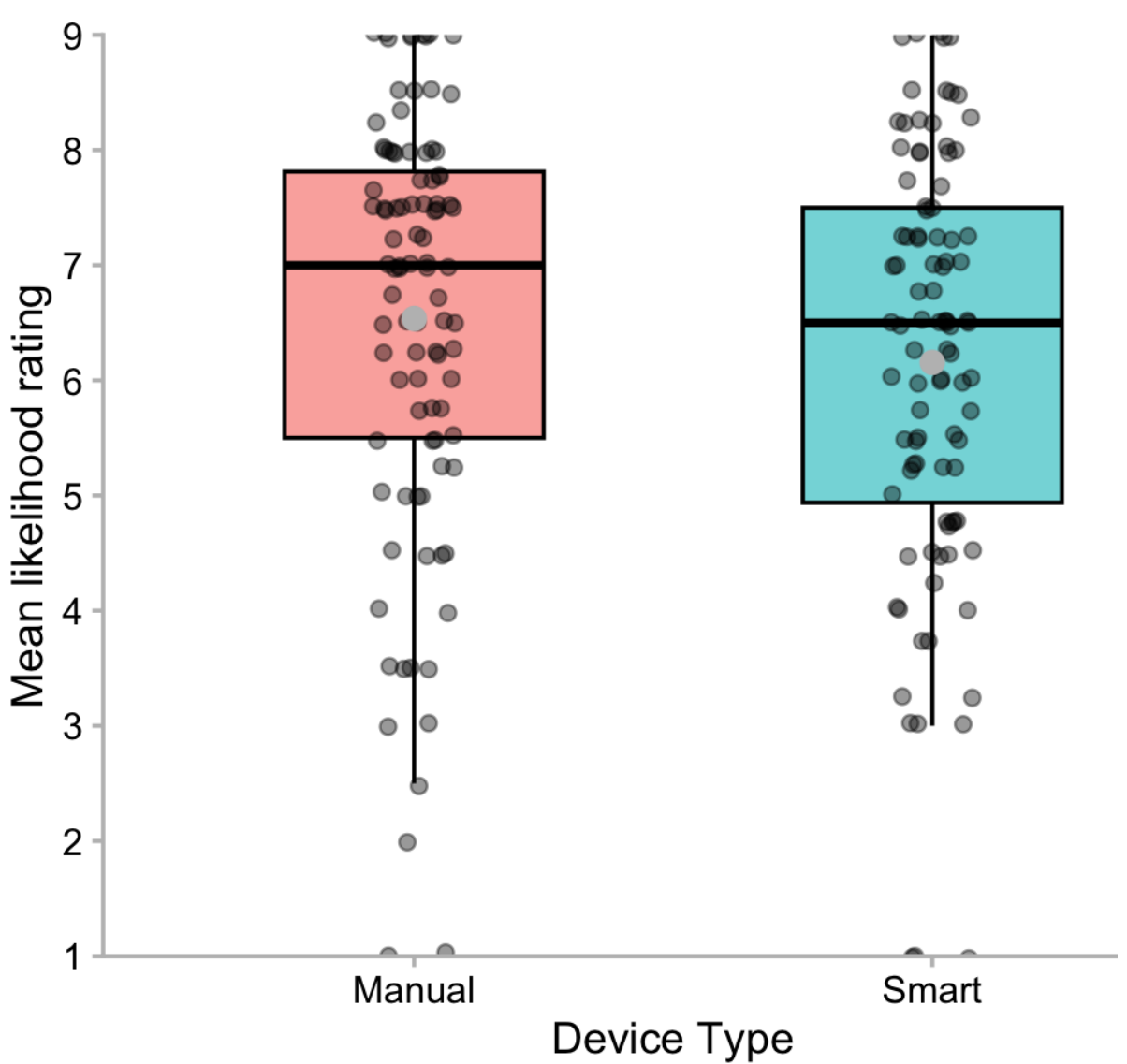
Leisure scenarios produced the lowest concern levels, Medication the highest



Finding 1

Participants prefer manual device over the smart one

“I am upset with Alexa. It keeps repeating the same thing instead of broad [range of music]. It's really annoying me.”
(participant living with dementia at home)



Finding 4

Differences in the views of people with dementia versus the other dementia stakeholders

Other stakeholders reported higher likelihood & higher concerns than people with dementia in hydration and social connection scenarios:

“My concern is that technology is sometimes foisted on people when they don't want it. And I think that's shocking. I'm glad I don't have family who are going to foist things on me.” (participant living with dementia at home)

“I don't like it [the device to send reminders to my carer]. I'd be very concerned. that would just be an invasion. He's already doing so much. I would hate that for him. I guess later on, that would be a different response.” (participant living with dementia at home)

