

The Use Of Smart Glasses In The Elderly Wound Care

A research project and design proposal
on the contribution of Smart Glasses to the
elderly wound care.



About the Smart Glasses in the elderly wound care

With an ageing society and fewer people willing to work in healthcare, the pressure on the healthcare sector is growing. And the high workload increased even more with the COVID-19 pandemic. Next to these factors increase, caregivers need to make numerous decisions each day, is their work emotionally demanding and though to be done. When continuing to work in this way, the quality of care provision will decrease. Therefore technical solutions, like Smart Glasses, can be a way to reduce these high pressures and maintain or even improve the quality of care. The company 1Minuut already offers an option with Smart Glasses to make knowledge easily, safely and everywhere available to the care provider. Two different Smart Glasses, the VuzixM400 and Google Enterprise 2, and their software Genzō are already used in several elderly care organisations. The Smart Glasses of 1Minuut and their software Genzō make it already possible to let an expert remotely see an elderly client when a nurse wears the Smart Glasses.

The focus of the project

This project focused on two parts. First, the current use and experiences of Smart Glasses (mainly of 1Minuut) are explored and researched. The second part of the research consisted of developing a design proposal of how Smart Glasses can contribute to supporting caregivers in elderly wound care.

The results

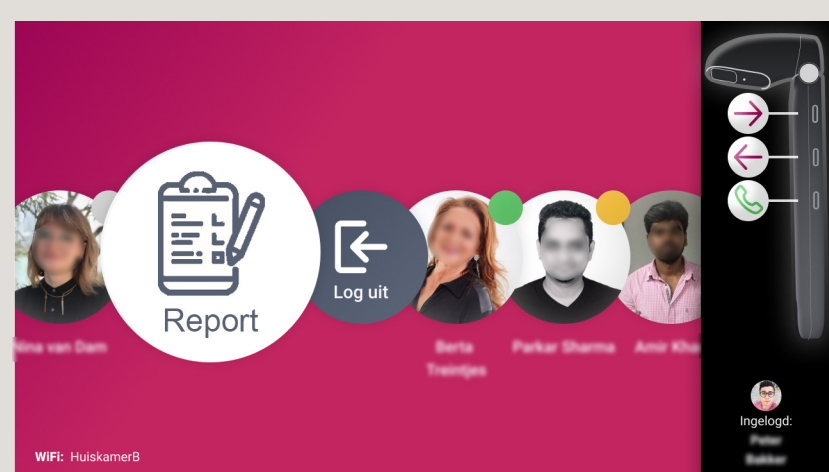
The main results of the research were that Smart Glasses do offer many advantages, especially for the person watching along and the clients. Less effort needs to be made when experts can see an elderly client remotely, and time will be saved. Smart Glasses wearers receive expertise on distance and can act faster, which improves the provision of care for the elderly.

However, Smart Glasses are not yet fully used. This is mainly because there are not yet that many opportunities with and features for the Smart Glasses. In addition, nurses do not yet experience what is really in it for them. Some, especially elderly nurses, find it challenging to control. In conclusion, it takes them more time than it benefits them. Therefore they do not use the Smart Glasses much and choose the old manner.

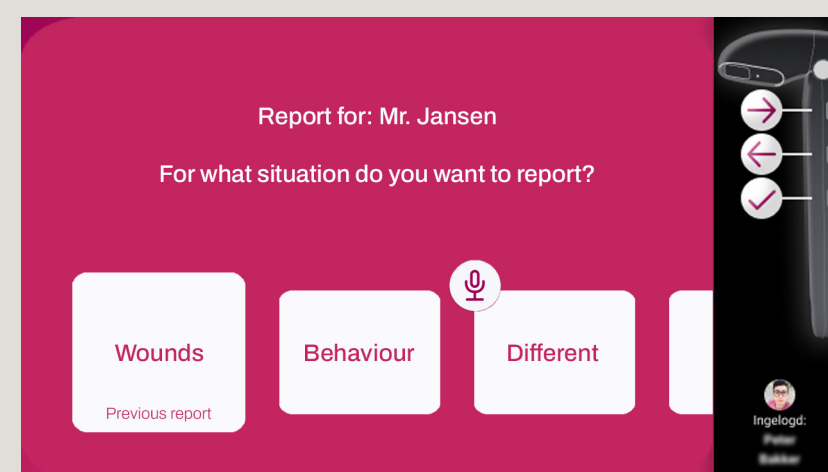
Furthermore, nurses mainly use the Smart Glasses when a call is scheduled. They mention that good communication between the nurse and the expert at a distance is essential, as is the reason for use. Therefore an implementation plan is necessary.

The second part of the study focused on proposing a design for how Smart Glasses can support caregivers in elderly wound care. In a short 5-step design sprint, a reporting tool for the Smart Glasses was proposed. This feature helps nurses report wounds with the Smart Glasses by voice. Smart Glasses wearers will be guided through different steps of the report. Closed questions are presented about the wounds, and commonly used answers are shown, which can be selected by saying the answer out loud. There is always an option to add another answer or report at another moment. Reporting can happen now directly in the client's room after the nurse has finished the tasks. When finished reporting, it will be automatically uploaded to the client's information file. This makes reporting more accessible, faster and more consistent.

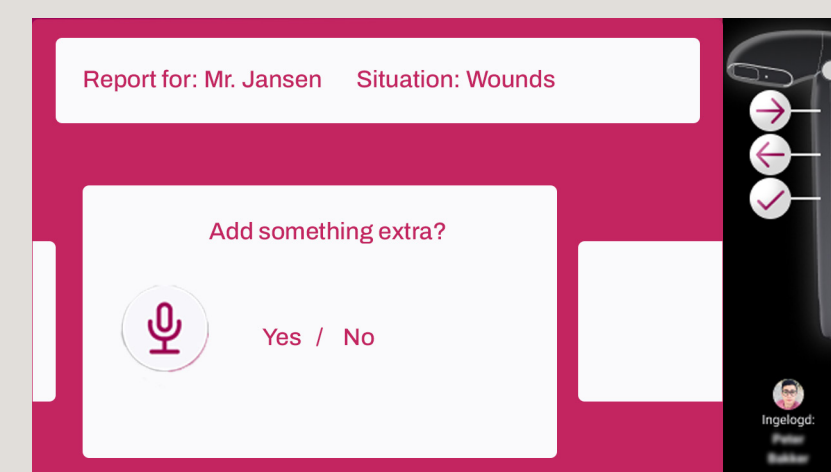
The design proposal



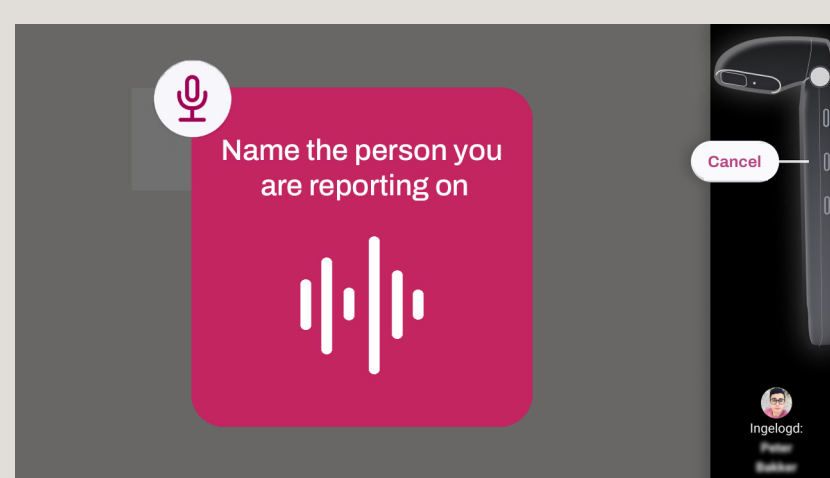
1. Select the report option.



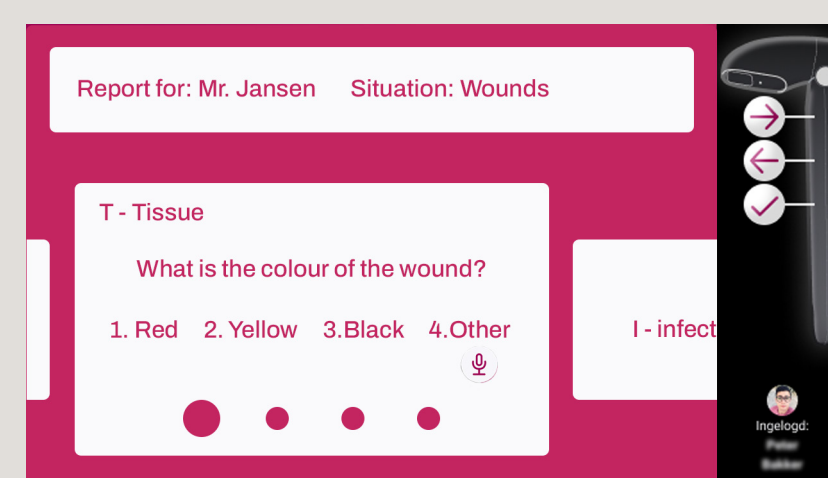
3. Name the situation to report on



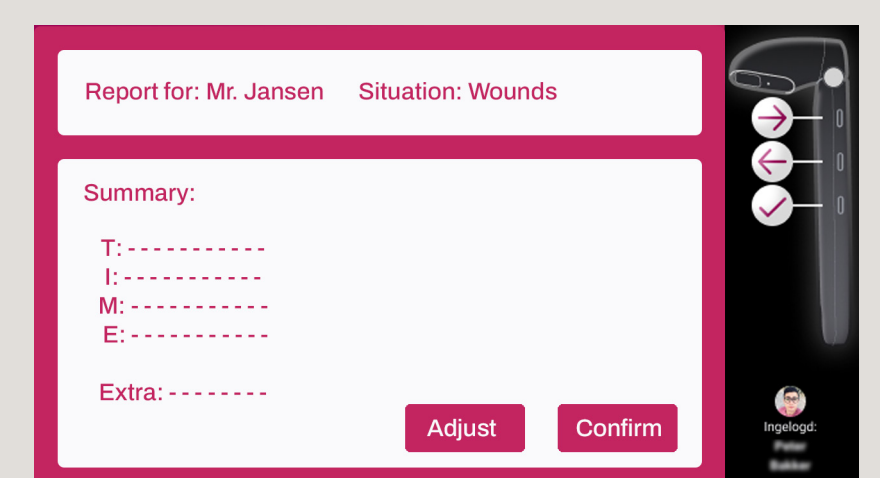
5. Add something when things were not mentioned



2. Name the person you want to report



4. Follow the steps. Answer by voice



6. Adjust or confirm the summary and upload to the client file.

Karlijn de Jong
The Use Of Smart Glasses In The Elderly Wound
Care
29-04-2022
Design for Interaction

Committee
Chair: Evangelos Niforatos
Mentor: Mailin Lemke
Company mentor: Kevin Semmelink
Company 1Minuut

