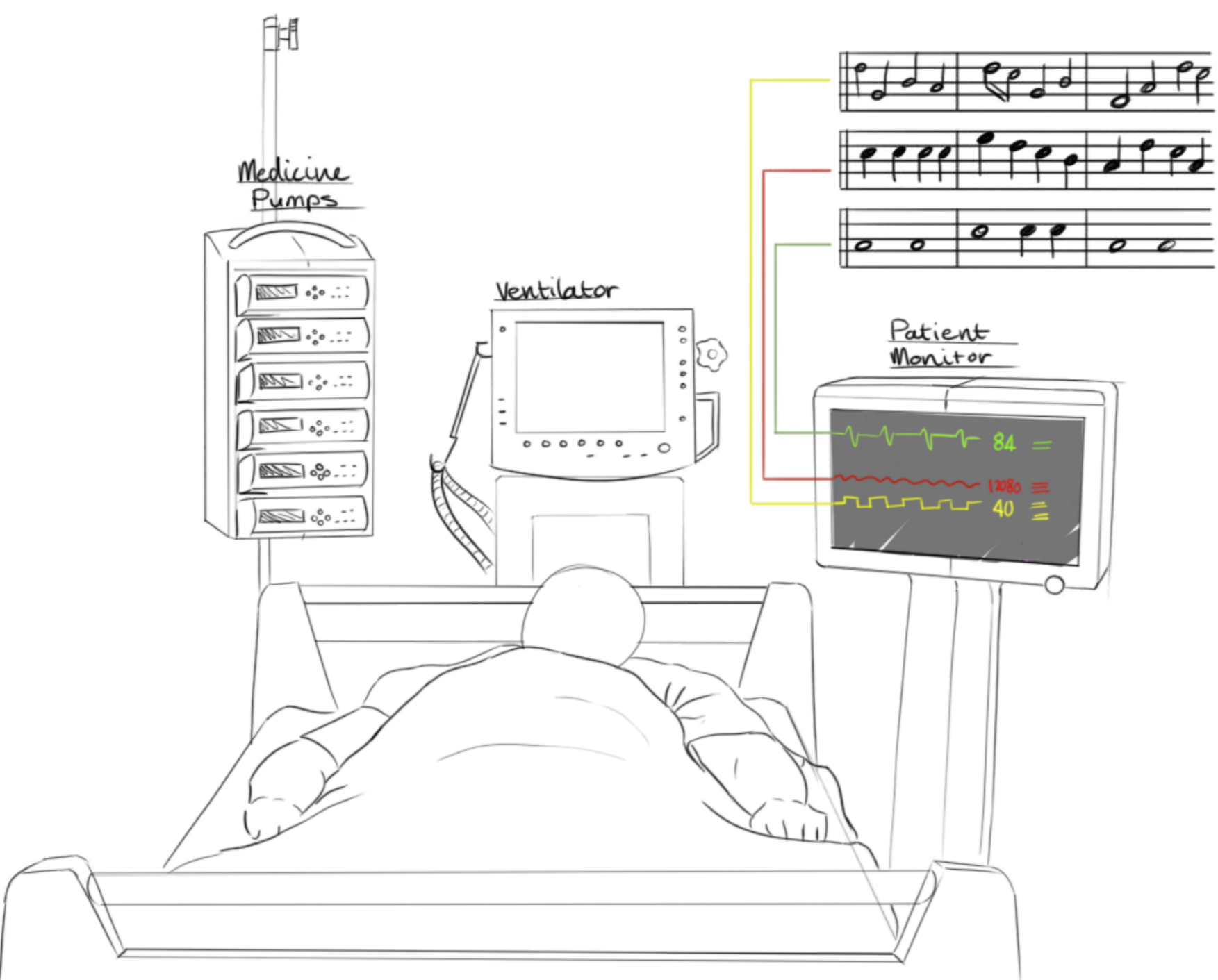


Care Tunes

Music as a nurses' monitoring tool



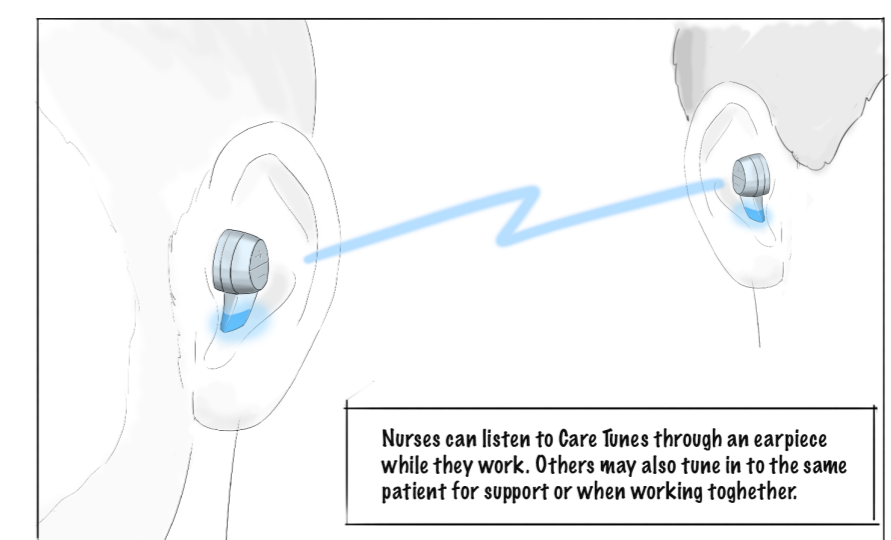
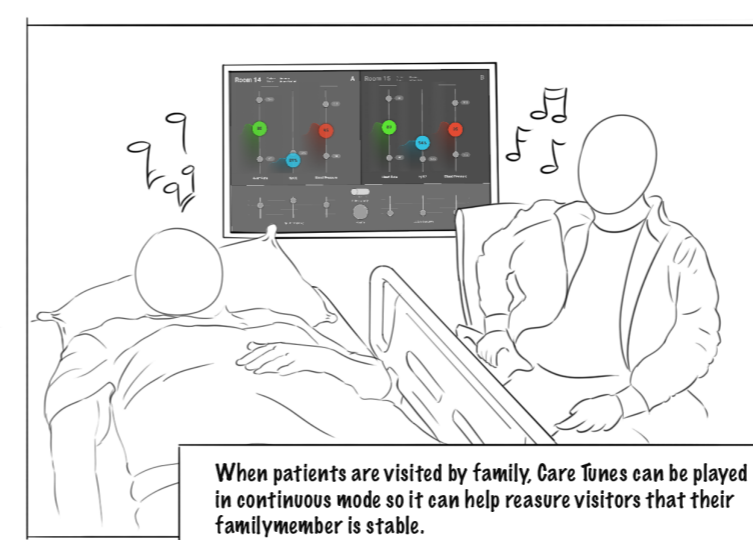
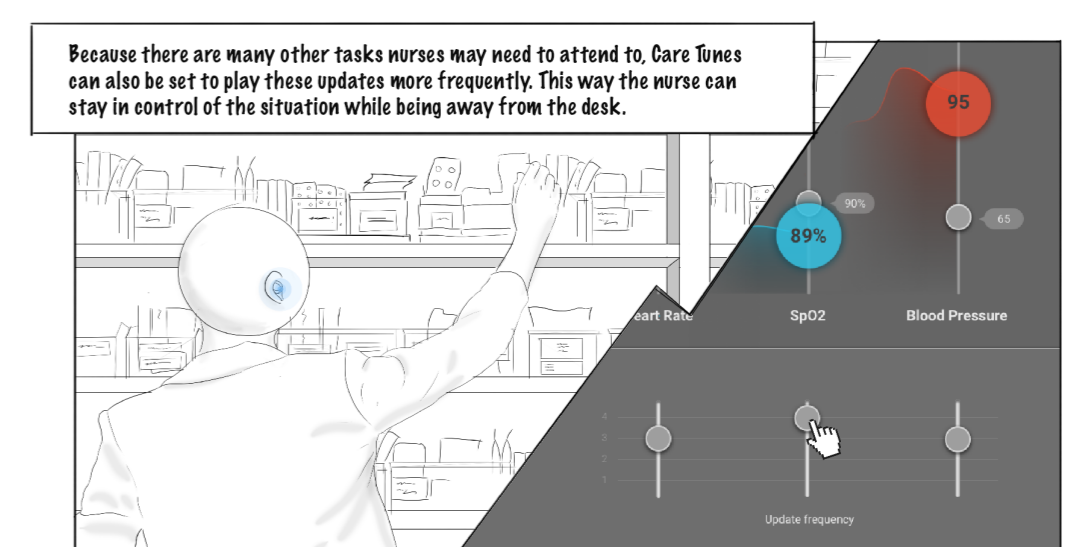
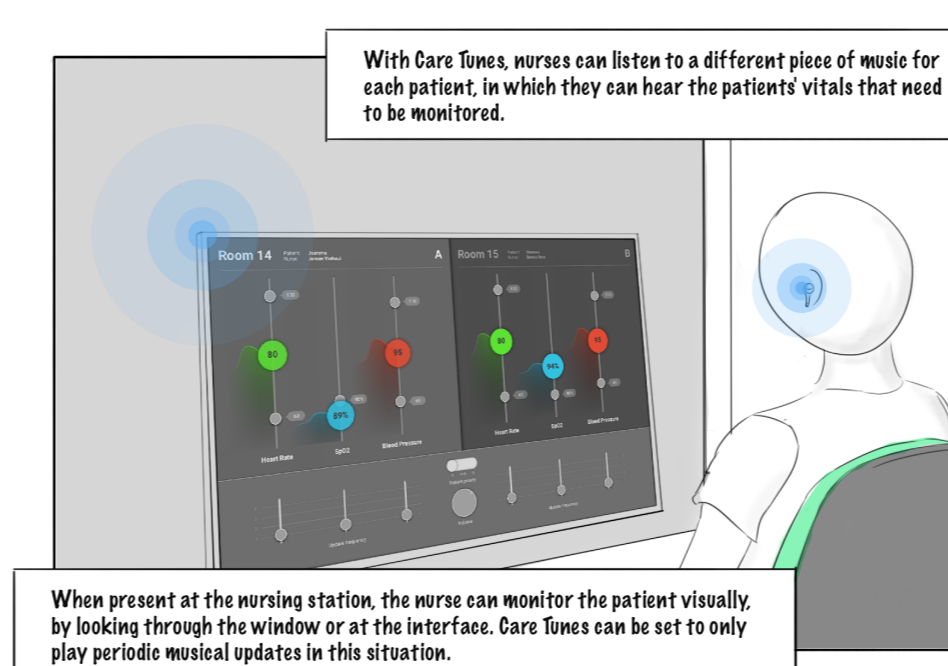
Monitoring through music

Care Tunes is a product design that allows nurses to listen to music to monitor their patients. By wearing an earpiece that plays the music, nurses can constantly be aware of their patients health without having to listen to the cacophony that is caused by alarms.

Care Tunes attempts to offers much more information than alarms do in the sonification of patient data. This lets nurses listen to a pleasant musical stream to get all the information they need about their patient.

Alarm fatigue

Nurses working in the ICU of the Erasmus Medical Center in Rotterdam are exposed to a vast amount of sounds from medical equipment. The amount of alarms nurses cope with causes alarms fatigue, which causes nurses to become desensitised to alarms. Not only is this a threat to patient safety, it also causes stress.



The Care Tunes dashboard

Using Care Tunes requires nurses to recognise sounds they hear in sequence and link them to the parameters they want to monitor. To support this, the Care Tunes dashboard was designed. This interface provides visual support through animation that moves with each of the sounds. This way, nurses can learn which sound corresponds with which parameter by looking at the interface. As they practice this they can rely ever more on their hearing to monitor patients.

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Care Tunes: Nurses as a nurses' monitoring tool
April 23rd, 2018
Design for Interaction

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