

**Supplementary Table 3.** Feedback from Patients about the Application

Comments (Number of patients)	
Reasons for being unable to actively use the app from the inactive users	
Medical problem*	<i>Surgery related:</i> severe pain, persistent fever, bleeding at surgical site, postoperative nausea, dizziness, somnolence (n = 4) <i>Underlying condition:</i> cataract, old age (n = 3)
Technical problem*	Notification did not appear due to mobile phone settings or server issues. (n = 4) The app no longer works (freezes) on the home screen. (n = 3)
Smartphone habits*	Could not discover the notification of assessment. (n = 4) Didn't feel the need to enter a pain intensity. (n = 3) Don't regularly check the smartphone notifications or set notifications to vibrate. (n = 2)
Positive comments on the app	
	Felt helpful in understanding how to assess and manage postoperative pain. (n = 4)
	Easy to understand (especially since it is video rather than text). (n = 3)
	Would have liked to have watched the materials more in advance (e.g. at the outpatient clinic) (n = 2)
	Relieved anxiety before surgery. (n = 1)
	Liked the feeling of caring about own body. (n = 1)
Comments on potential improvements for the app	
	Lack of more detail assessment of the pain (e.g. location, nature, changes with posture). (n = 3)
	Felt difficult with sliding the bar or prefer to click on the numbers to select pain level. (n = 2)
	Inconvenient to be shown the previous answer results in default as references. (n = 2)
	Push notification does not link directly to the assessment screen. (n = 1)
	The text is small and hard to read. (n = 1)
	App installation process is quite complicated. (n = 1)

\*The reasons why the assessments could not be performed are again divided into three sub-categories.