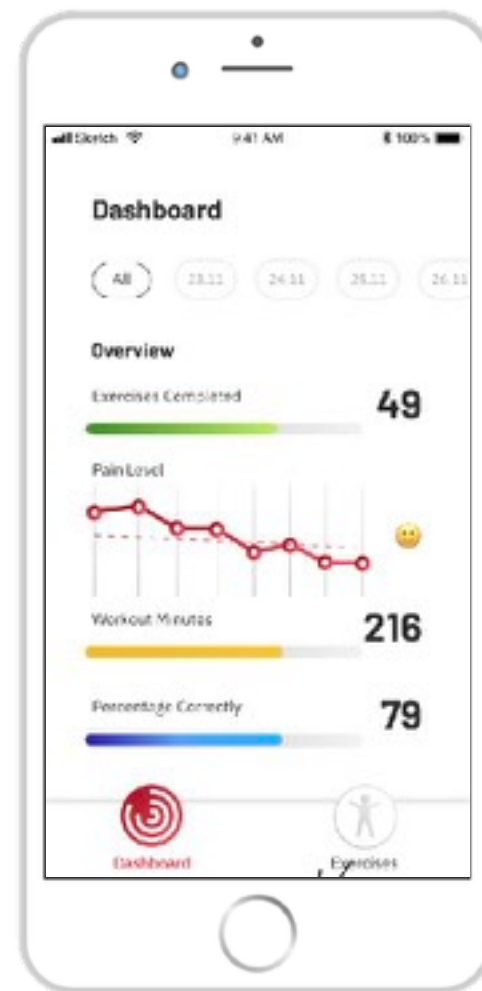


Realtime feedback



Post exercise feedback



Detailed Analysis per repetition

A mobile app will be used to give comprehensive feedback in real time as well as post exercise feedback.

## Mobile App

The device was tested with two patients, who belonged to the target population, for the duration of one week. Parameters being tested were adoption of such a device in an Indian household, ability to understand areas of improvement and delta in strength, pre and post experiment. One patient dropped out of the experiment (reason unstated).

Evaluation of the prototype was conducted with one patient. The device was found to be useful, and helpful in correcting wrong movements. The delta in strength for experimental group pre-experiment vs post-experiment was 6.5kgf. The delta in strength for control group pre-experiment vs post-experiment was 2kgf.

The mobile application was presented as a click through prototype to 7 users and 4 experts, all of whom rated the application positively in the semi-structured descriptive qualitative SUS based interview that was conducted.

## **Evaluation**