KOASK

PRESENTED BY ALI KAMRAN, CHRIS HAWK, SPENCER BRIERE, AND RACHEL QUAPP

ALBERTA BONE AND JOINT HEALTH INSTITUTE

- Partnering with University of Calgary, CIHR, and Alberta Health Services
- Goal of the project is to assist KOA patients with the management of their disease
- ▶ Through increased engagement in the care process
- Development of a risk management and resource tool

KNEE OSTEOARTHRITIS

- Osteoarthritis is a condition where cartilage wears away
- More than 27 million people in the U.S. have it
- Occurs in 10% of men and in 13% of women aged 60 years or older

RESEARCH

- Risk model and projections
- ▶ Three dimensions of KOA severity
 - Structural
 - Pain
 - Functional
- Exercise can alleviate symptoms and improve your condition

OUR ROLE

- Develop an app with a self-management planning module
 - Information gathering
 - ▶ Risk calculation and visualization
 - Recommend and track activities

KOASK

Be one step ahead of your knee osteoarthritis



KOASK

A self-management and knowledge app for those suffering from knee osteoarthritis (KOA).

GOING FORWARD

- Using the symptom scores to generate customized activity recommendations
- Improving surveys to make them more engaging and easier to take
- Implement further analytics to motivate users and provide more useful feedback



Symptom Tracking

Tracks pain, functionality, and stiffness to get a comprehensive picture of the condition



Risk Calculation

Calculates the current severity and stage of the knee osteoarthritis



7-Year Prediction

Get a glimpse into the future with a projected severity estimate

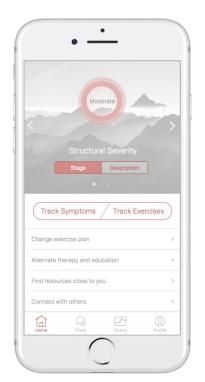


Exercise Planning

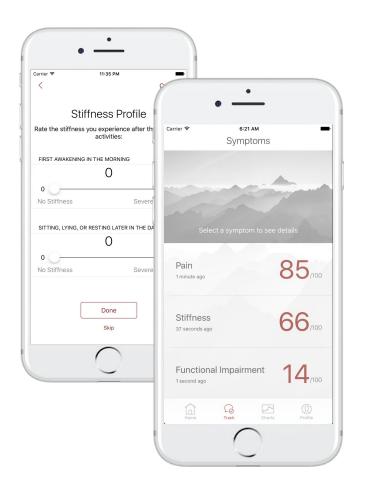
Provides a customizable exercise plan from a set of recommended activities





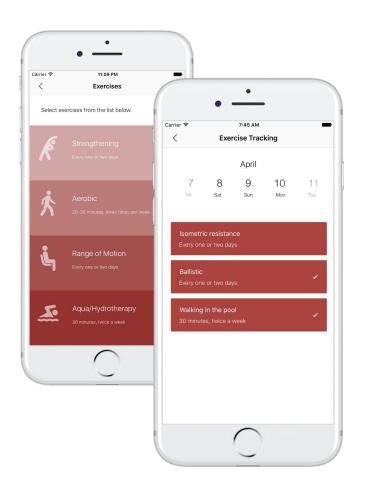






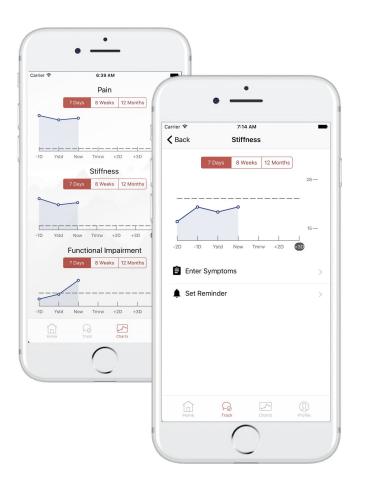


Symptom Tracking





Exercise Tracking





Risk Visualization



DEMO

Thank you!

Any questions?