

Problem Statement

Develop a device to prevent, monitor, or treat the effects of chronic and acute knee injuries in athletes.

Key Considerations

- Specify your team's chosen pathology (disease/condition)
- Specify your team's chosen target population
- Specify symptoms the patient/population would likely be experiencing
- Define the device's purpose (prevention, monitoring, treatment)
- Specify the patient's physical control limitations (see Background document for more information)
- Research competing products on the market

Design Considerations

Below are some suggestions to implement into your device design. Please refer to the judging criteria to guide your final decisions.

Required

- Straightforward assembly (if applicable)
- Accessibility - designed for independent use
- Fits users of various physiques
- Longevity

Nice to have

- Discreet
- Easy to travel with
- Addresses various stages of injury
- Addresses various injuries
- Low-cost
- Durable, easy to maintain
- Personalizable (adjusts to patient's anatomy)

