How does knee function change during post-natal growth?

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Overview of Knee Anatomy
Current Research

- The current study is designed to quantify the changes in knee function throughout growth.
- Stifle joints (knees) will be collected at 7 time points ranging from 6 weeks to 2 years (youth to skeletal maturity).
- Anatomical and biomechanical properties are studied with imaging and robotics.
Questions for Discussion

• Is overall knee function conserved throughout post-natal growth and aging? Is it optimized for a specific age range? What about the relative contribution of the tissue components?

• Is there an age where the joint can overcome an injury (ACL injury for example) by remodeling of the other tissues to restore near-normal function? If so, what is the mechanism?

• Can we improve future knee function by encouraging different gait patterns in young patients?