

Case Study Week 7 Joints

1. Structurally joints are classified as fibrous, cartilaginous, and synovial joints. The functional classification of joints is based on the type and degree of movement that they allow. The three types of joints in the functional classification are immovable, partly movable, and movable joints.
2. The hinge joint is the class of synovial joint located in the knee.
3. The anterior cruciate ligament(ACL) runs diagonally in the middle of the knee. ACL prevents the tibia from sliding out in front of the femur and provides stability to the knee.
4. Hemarthrosis is bleeding that occurs in one of the joints.
5. Yes Eli will be able to play college football next year after he recovers from his surgery.

References:

- Mulcahey, M (2022). Anterior Cruciate Ligaments (ACL): *Cruciate Ligaments*. Retrieved February 23, 2023, from <https://orthoinfo.aaos.org/diseases-conditions/anterior-cruciate-ligament-acl-injuries.com>
- National Library of Medicine. (2022, August 1). *Hemarthrosis*. Retrieved February 23, 2023, from <https://ncbi.nlm.nih.gov/books>