

# CHOP Research Institute Summer Scholars Program



**J. Todd Lawrence, M.D., Ph.D.**

Orthopedic Surgery

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**Clinical Research:** Patient-oriented research examining the safety and effectiveness of diagnostics, medicines or medical devices (may involve human subjects or data collected from human subjects)

## Pediatric and Adolescent Sports Medicine

My two main research focuses are: **(1)** Clinical research on sports related injuries in adolescent athletes, including ACL tears, patella (knee cap) dislocations, shoulder dislocations, and cartilage injuries; and **(2)** Simulation research on model development and validation for teaching core orthopedic concepts such as fracture reduction and casting techniques.

- **Potential summer research project:**

Data collection, analysis or help with manuscript preparation on the following topics: **(1)** Parameters associated with increased risk of patella dislocation; **(2)** Treatment options for pediatric ankle "sprains" (actually a growth plate fracture); and **(3)** Validation of the effectiveness of a new distal radius (wrist) fracture model.

- **Students will learn the following techniques:**

**(1)** Chart review; **(2)** Database development; **(3)** Statistical analysis; **(4)** Radiograph analysis and measurement; and **(5)** Patient recruitment.

Please click [here](#) to read more about Dr. Lawrence