Summer Student Research Program
Project Description

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PROJECT TITLE (200 Characters max):
The Effect of Supplemental Subchondral Bone Grafting in Benign-Aggressive Epi-Metaphyseal Bone Tumors

HYPOTHESIS:
By supplementing fixation of epiphyseal bone defects after tumor excision with subchondral bone grafting rather than cement alone, there would be a decrease in fracture and degenerative changes with no change in recurrence rates.

PROJECT DESCRIPTION (Include design, methodology, data collection, techniques, data analysis to be employed and evaluation and interpretation methodology)
A Chart review of the 40-45 patients with 2 groups of treatments, with outcome analysis of 3 simple endpoints.

SPONSOR’S MOST RECENT PUBLICATIONS RELEVANT TO THIS RESEARCH:
None

IS THIS PROJECT SUPPORTED BY EXTRAMURAL FUNDS?
Yes ☐ or No ☒
(IF YES, PLEASE SUPPLY THE GRANTING AGENCY’S NAME)

THIS PROJECT IS: ☒Clinical ☐Laboratory ☐Behavioral ☐Other
(Evidence Based Medicine)

THIS PROJECT EMPLOYS RADIOISOTOPES ☐No

THIS PROJECT INVOLVES THE USE OF ANIMALS ☐No

PENDING ☐ APPROVED ☒ IACUC PROTOCOL #

THIS PROJECT INVOLVES THE USE OF HUMAN SUBJECTS ☐Yes – Chart Review

PENDING ☒ APPROVED ☐ IRB PROTOCOL # M

WHAT WILL THE STUDENT LEARN FROM THIS EXPERIENCE?

1) A thorough understanding of the pathologies involved with benign-aggressive epiphyseal bone tumors, such as giant cell tumor of bone, chondroblastoma and aneurismal bone cyst including surgical options.
2) A basic introduction into chart review, outcome analysis and basic statistics.
3) Preparing a scientific manuscript.