The Evaluation of the Intercalary Prosthetic Device in Musculoskeletal Cancer Patients: A Retrospective Analysis.

HYPOTHESIS:

The modular intercalary device OsteoBridge® IDSF® may have promising advantages over other available systems through advantages in its modularity in stem diameter and length, cementation or interlocking capabilities, and its unique ability to be used in the tibia.

PROJECT DESCRIPTION (Include design, methodology, data collection, techniques, data analysis to be employed and evaluation and interpretation methodology)

This is a retrospective review of patients implanted with the OsteoBridge® IDSF® device. Surgical technique included resection of the lesions using oncologic principles, and cementation of the intramedullary rods and implantation of the spacer, maintaining preoperative length and rotational alignment. Demographic, pathological, and surgical data will be collected and outcomes analyzed.

SPONSOR'S MOST RECENT PUBLICATIONS RELEVANT TO THIS RESEARCH:


Beebe KS, Song K, Ross E. Early Experience with the Non-Invasive Expandable Prosthesis: Functional Outcome and Kinematic Analysis- Accepted to Archives of Physical Medicine and Rehabilitation

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

THIS PROJECT EMPLOYS RADIOISOTOPES

THIS PROJECT INVOLVES THE USE OF ANIMALS ☒

PENDING ☐ APPROVED ☒ IACUC PROTOCOL #

THIS PROJECT INVOLVES THE USE OF HUMAN SUBJECTS ☒

PENDING ☐ APPROVED ☒ IRB PROTOCOL # 0120090095
WHAT WILL THE STUDENT LEARN FROM THIS EXPERIENCE?
The student applicant should have a strong interest in pursuing orthopaedic surgery as a future career path as this project entails retrospectively analyzing data of an innovative method of reconstruction following tumor resection. The student will learn how to retrospectively collect and analyze data. They will also gain the experience of carrying out the scientific method and present their findings for a poster and future publication.