

### **Section: Contact Information**

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### **Section: Project Requirements and Description**

#### **Group: Requirements to submit AOI**

A comprehensive review of previously published data has been completed. : **Yes**

The specific aims are clear and focused. : **Yes**

The investigator has appropriate experience and expertise to develop the concept proposal; if not, has identified a mentor or senior co-investigator. : **Yes**

The investigator agrees to develop an initial draft of the concept proposal within 6 weeks of approval of the AOI and to finalize the concept proposal within 6 months. : **Yes**

Project Title : **Long-term functional, surgical, and socioeconomic outcomes of local control (radiotherapy, amputation, or limb salvage/reconstructive options) in patients with primary bone sarcomas in the modern era of orthopedic oncology**

Planned research population (eligibility criteria) :

**Lower extremity bone sarcoma survivors who underwent any form of local control management, including primary limb salvage procedures, amputation or radiotherapy. We will restrict our study to the expanded cohort (1987-99), where interrogate modern prosthetic design, materials science, and surgical techniques were instituted and continue to this day**

Proposed specific aims :

**1) Describe the long-term functional and psychosocial outcomes of osseus sarcoma patients treated with various local control options in the modern era of orthopedic oncology, including amputation, radiotherapy, and primary limb salvage procedures as stratified by technique -- rotationplasty, endoprosthesis, allograft, or allograft-composite reconstruction.**

**2) Determine the long-term socioeconomic outcomes of osseus sarcoma patients treated with various local control options in the modern era of orthopedic oncology, including amputation, radiotherapy, and primary limb salvage procedures as stratified by technique -- rotationplasty, endoprosthesis, allograft, or allograft-composite reconstruction.**

**3) Identify the proportion of patients in each local control strategy group that received medical care in the previous two years and the type of medical care received. Further, identify factors predictive of recent medical care.**

**4) Determine the late complication profile for each local control strategy, including local**

recurrence and surgical intervention such as revision or amputation. Further, identify risks factors for late complications specific to initial local control strategy.

Will the project require non-CCSS funding to complete? : **No**

If yes, what would be the anticipated source(s) and timeline(s) for securing funding? :

**Group: Does this project require contact of CCSS study subjects for:**

Additional self-reported information : **No**

Biological samples : **No**

Medical record data : **No**

If yes to any of the above, please briefly describe. :

**Group: What CCSS Working Group(s) would likely be involved? (Check all that apply)**

Second Malignancy :

Chronic Disease : **Primary**

Psychology / Neuropsychology : **Secondary**

Genetics :

Cancer Control :

Epidemiology / Biostatistics :

**Section: Outcomes or Correlative Factors**

Late mortality : **Secondary**

Second Malignancy : **Secondary**

**Group: Health Behaviors**

Tobacco : **Secondary**

Alcohol : **Secondary**

Physical activity : **Secondary**

Medical screening : **Secondary**

Other : **Secondary**

If other, please specify : **Late (>5 years) surgical procedures, late (>5 years) recurrence**

**Group: Psychosocial**

Insurance : **Secondary**

Marriage : **Secondary**

Education : **Secondary**

Employment : **Secondary**

Other : **Secondary**

If other, please specify :

**Group: Medical Conditions**

Hearing/Vision/Speech :

Hormonal systems :

Heart and vascular : **Secondary**

Respiratory : **Secondary**

Digestive : **Secondary**

Surgical procedures : **Primary**

Brain and nervous system :

Other :

If other, please specify :

**Group: Medications**

Describe medications :

**Group: Psychologic/Quality of Life**

BSI-18 : **Secondary**

SF-36 : **Primary**

CCSS-NCQ :

PTS : **Secondary**

PTG :

Other :

If other, please specify :

**Group: Other**

Pregnancy and offspring : **Secondary**

Family history :

Chronic conditions (CTCAE v3) : **Correlative Factors**

Health status : **Secondary**

**Group: Demographic**

Age : **Correlative Factors**

Race : **Correlative Factors**

Sex : **Correlative Factors**

Other :

If other, please specify :

**Group: Cancer treatment**

Chemotherapy : **Correlative Factors**

Radiation therapy : **Correlative Factors**

Surgery : **Correlative Factors**

**Section: Anticipated Sources of Statistical Support**

CCSS Statistical Center : **Yes**

Local institutional statistician :

If local, please provide the name(s) and contact information of the statistician(s) to be involved. :

Will this project utilize CCSS biologic samples? : **No**

If yes, which of the following? :

If other, please explain :

**Section: Other General Comments**

Other General Comments :

**It may be necessary to re-review Expanded Cohort operative notes to classify the primary local control surgical modality for some patients.**

I agree to share this information with St. Jude : **Yes**