

# Assessing medical student knowledge and attitudes about Sarcoma education in undergraduate medical education

The purpose of this survey is to assess self-reported exposure to sarcoma education in US undergraduate medical students. Sarcomas are a diverse group of rare cancers that arise from mesenchymal cells. Management often involves surgical removal and patient outcomes decrease with advanced disease. One of the barriers to early care is a low index of suspicion among providers.

\* Required

1. Please indicate where you are in your medical education. If you're currently pursuing additional degrees (PhD, MPH, MS, etc..) please indicate the last completed year of your medical education.

*Mark only one oval.*

- Year 1
- Year 2
- Year 3
- Year 4

2. Which campus have you completed the majority of your education? \*

*Mark only one oval.*

- Minnesota
- Arizona

## 3. How much exposure have you had with sarcomas in medical school? \*

*Mark only one oval.*

- A great deal of exposure
- Some exposure
- Little or no exposure

## 4. Please rate your familiarity with the following sarcomas

*Mark only one oval per row.*

	Not at all familiar (what is that)	Somewhat familiar (I've heard of it)	Very familiar - xx
Osteosarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ewing Sarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Angiosarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Liposarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Leiomyosarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gastrointestinal Stromal Tumors (GIST)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Synovial Sarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Undifferentiated/unclassified soft tissue sarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kaposi Sarcoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

5. Please rate the degree to which the following components of sarcoma education are taught in medical school (Little no emphasis, taught but not emphasized, strongly emphasized) \*

*Check all that apply.*

	Little to no emphasis	Taught but not emphasized	Strongly emphasized
Pathology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clinical Presentation & Diagnosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Genetics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Treatment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Have you interacted with a patient in the clinic who has a sarcoma? \*

*Mark only one oval.*

- No  
 Yes, a few (1-5)  
 Yes, several (6-10)  
 Yes, many (11+)

7. How comfortable would you feel screening patients for sarcomas in a clinical setting? \*

*Mark only one oval.*

	1	2	3	4	5	
Not at all comfortable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very comfortable

8. What do you view as an effective method for educating medical students about rare conditions such as sarcomas? \*

*Check all that apply.*

- Lectures
- Emphasis of material on board exams
- Patient panel discussions
- Exposure to patients in the clinic

9. Please select 5 findings that would most raise your concern for an underlying soft tissue sarcoma. \*

*Check all that apply.*

- Painful lump
- Golf ball sized soft tissue mass
- Lump that is increasing in size
- A lump that is deep to muscle fascia
- A recurrent lump that has previously been excised
- Age
- Sex

10. What is the most sensitive marker for malignancy? \*

*Mark only one oval.*

- Tumor Depth
- Tumor size
- Ulceration
- Rapid Growth

11. Benign soft tissue masses are much more infrequent compared to malignant soft tissue sarcomas. \*

*Mark only one oval.*

True

False

12. What is the most common route for metastasis in sarcomas? \*

*Mark only one oval.*

Hematogenously

Lymphatics

13. What ideas do you have to improve the quality of education on sarcomas in medical school?

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