

# SYNOVIAL SARCOMA BACKGROUND

## What is Synovial Sarcoma?

- Synovial sarcoma is a cancer that can come from **different types of soft tissues, such as muscle or ligaments**. It can also form in soft tissues in the lung or abdomen.<sup>1</sup>
- Synovial sarcoma accounts for **approximately 6% to 10% of all soft tissue sarcomas**. The most common locations are the hip, knee, ankle, and shoulder.<sup>2</sup>
- It is a **deadly cancer** that often impacts people **in their thirties or younger**, with approximately **one-third** of synovial sarcomas occurring in childhood.<sup>3</sup>



“After suffering from misdiagnosis or years long journey to diagnosis, people living with synovial sarcoma struggle with limited and often ineffective treatment options. A treatment for synovial sarcoma patients that gives them more options, a better prognosis, and a better quality of life is long overdue.”

**BRANDI FELSER**  
CHIEF EXECUTIVE OFFICER, SARCOMA FOUNDATION OF AMERICA

## The Unmet Need

- The incidence of synovial sarcoma is estimated to be **2.75 per 100,000**.<sup>4</sup>
- There are **very limited treatment options** for people with synovial sarcoma, with half of cases not responding to surgery, radiation therapy, or chemotherapy.<sup>5</sup>
- The overall five-year survival rate for people with synovial sarcoma is between **36% to 76%**, depending on where the cancer is located, if it has spread, and how much of it can be removed through surgery.<sup>6</sup>
- Sarcomas can **recur and metastasize**, even after complete resections.<sup>7</sup>

## Current Available Treatment Options



Surgery



Radiation



Chemotherapy



Targeted drugs



“Amongst the limitations of using chemotherapy to treat synovial sarcoma is the need to always be on a therapy and to deal with the side effects that come from it. Chemo patients are not able to live a normal life. What we’re really looking for is a therapy where once it’s performed, it’s durable and you don’t need another one.”

**DR. BRIAN VAN TINE**  
ASSOCIATE PROFESSOR OF MEDICINE, DIVISION OF ONCOLOGY, SECTION OF MEDICAL ONCOLOGY, WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

### References

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- 2 “Synovial Sarcoma.” Adaptimmune Therapeutics Plc, Adaptimmune Therapeutics Plc, 2021, [www.adaptimmune.com/patients-families/cancer-information/synovial-sarcoma](http://www.adaptimmune.com/patients-families/cancer-information/synovial-sarcoma).
- 3 “Synovial Sarcoma.” Adaptimmune Therapeutics Plc, Adaptimmune Therapeutics Plc, 2021, [www.adaptimmune.com/patients-families/cancer-information/synovial-sarcoma](http://www.adaptimmune.com/patients-families/cancer-information/synovial-sarcoma).
- 4 “Synovial Sarcoma.” National Cancer Institute, National Cancer Institute, 27 Feb. 2019, [www.cancer.gov/pediatric-adult-rare-tumor/rare-tumors/rare-soft-tissue-tumors/synovial-sarcoma](http://www.cancer.gov/pediatric-adult-rare-tumor/rare-tumors/rare-soft-tissue-tumors/synovial-sarcoma).

- 5 “Patient Resources- What Is Sarcoma? Treatments & More.” Sarcoma Foundation of America, Sarcoma Foundation of America, 22 May 2020, [www.curesarcoma.org/patient-resources/](http://www.curesarcoma.org/patient-resources/).
- 6 “Synovial Sarcoma.” National Cancer Institute, National Cancer Institute, 27 Feb. 2019, [www.cancer.gov/pediatric-adult-rare-tumor/rare-tumors/rare-soft-tissue-tumors/synovial-sarcoma](http://www.cancer.gov/pediatric-adult-rare-tumor/rare-tumors/rare-soft-tissue-tumors/synovial-sarcoma).
- 7 Morrison, Blake A. “Soft tissue sarcomas of the extremities.” Proceedings (Baylor University Medical Center) vol. 16,3 (2003): 285-90. doi:10.1080/08998280.2003.11927915.