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## Bone Cancer

Cancer that starts in a bone is uncommon. Cancer that has spread to the bone from another part of the body is more common.


There are three types of bone cancer:

- Osteosarcoma - occurs most often between ages 10 and 19. It is more common in the knee and upper arm.
- Chondrosarcoma - starts in cartilage, usually after age 40
- Ewing's sarcoma - occurs most often in children and teens under 19. It is more common in boys than girls.


The most common symptom of bone cancer is pain. Other symptoms vary, depending on the location and size of the cancer. Surgery is often the main treatment for bone cancer. Other treatments may include amputation, chemotherapy, and radiation therapy. Because bone cancer can come back after treatment, regular follow-up visits are important.

*NIH: National Cancer Institute*


### Start Here

- Bone Tumor [<https://orthoinfo.aaos.org/en/diseases--conditions/bone-tumor/>] (American Academy of Orthopaedic Surgeons)
- Primary Bone Cancer [<https://www.cancer.gov/types/bone/bone-fact-sheet>]  (National Cancer Institute)  
Also in Spanish [<https://www.cancer.gov/espanol/tipos/hueso/hoja-informativa-hueso>]
- What Is Bone Cancer? [<https://www.cancer.org/cancer/types/bone-cancer/about/what-is-bone-cancer.html>]  
(American Cancer Society)  
Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/acerca/que-es-cancer-de-hueso.html>]

### Diagnosis and Tests

- Bone Biopsy [<https://www.radiologyinfo.org/en/info/bonebiopsy>]  
(American College of Radiology; Radiological Society of North America)  
Also in Spanish [<https://www.radiologyinfo.org/es/info/bonebiopsy>]
- Bone Cancer Stages [<https://www.cancer.org/cancer/types/bone-cancer/detection-diagnosis-staging/staging.html>]  
(American Cancer Society)  
Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/deteccion-diagnostico-clasificacion-por-etapas/clasificacion-por-etapas.html>]
- Bone Scan [<https://www.mayoclinic.org/tests-procedures/bone-scan/about/pac-20393136?p=1>]  
(Mayo Foundation for Medical Education and Research)  
Also in Spanish [<https://www.mayoclinic.org/es/tests-procedures/bone-scan/about/pac-20393136?p=1>]
- Stages of Ewing Sarcoma [[https://www.cancer.gov/types/bone/patient/ewing-treatment-pdq#\\_28](https://www.cancer.gov/types/bone/patient/ewing-treatment-pdq#_28)]  
 (National Cancer Institute)  
Also in Spanish [[https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-ewing-pdq#section/\\_22](https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-ewing-pdq#section/_22)]
- Tests for Bone Cancer [<https://www.cancer.org/cancer/types/bone-cancer/detection-diagnosis-staging/how-diagnosed.html>]  
(American Cancer Society)




Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/deteccion-diagnostico-clasificacion-por-etapas/como-se-diagnostica.html>]

- **TP53 Genetic Test** [<https://medlineplus.gov/lab-tests/tp53-genetic-test/>]  (National Library of Medicine)  
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-genetica-tp-53-proteina-tumoral-53/>]

## Prevention and Risk Factors

- **Risk Factors for Bone Cancer** [<https://www.cancer.org/cancer/types/bone-cancer/causes-risks-prevention/risk-factors.html>]  
(American Cancer Society)  
Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/causas-riesgos-prevencion/factores-de-riesgo.html>]



## Treatments and Therapies

- **Drugs Approved for Bone Cancer** [<https://www.cancer.gov/about-cancer/treatment/drugs/bone>]  (National Cancer Institute)
- **Surgery for Bone Cancer** [<https://www.cancer.org/cancer/types/bone-cancer/treating/surgery.html>] (American Cancer Society)  
Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/tratamiento/cirugia.html>]
- **Treatment Option Overview (Ewing Sarcoma)** [[https://www.cancer.gov/types/bone/patient/ewing-treatment-pdq#\\_47](https://www.cancer.gov/types/bone/patient/ewing-treatment-pdq#_47)]  
 (National Cancer Institute)  
Also in Spanish [[https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-ewing-pdq#section/\\_46](https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-ewing-pdq#section/_46)]
- **Treatment Option Overview (Osteosarcoma)** [[https://www.cancer.gov/types/bone/patient/osteosarcoma-treatment-pdq#\\_50](https://www.cancer.gov/types/bone/patient/osteosarcoma-treatment-pdq#_50)]  
 (National Cancer Institute)  
Also in Spanish [[https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-osteosarcoma-pdq#section/\\_46](https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-osteosarcoma-pdq#section/_46)]




## Living With

- **Living as a Bone Cancer Survivor** [<https://www.cancer.org/cancer/types/bone-cancer/after-treatment/follow-up.html>]  
(American Cancer Society)  
Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/despues-del-tratamiento/cuidado-de-seguimiento.html>]

## Specifics

- **Bone Metastasis** [<https://www.mayoclinic.org/diseases-conditions/bone-metastasis/symptoms-causes/syc-20370191?p=1>]  
(Mayo Foundation for Medical Education and Research)  
Also in Spanish [<https://www.mayoclinic.org/es/diseases-conditions/bone-metastasis/symptoms-causes/syc-20370191?p=1>]
- **General Information about Ewing Sarcoma** [<https://www.cancer.gov/types/bone/patient/ewing-treatment-pdq>]  
 (National Cancer Institute)  
Also in Spanish [<https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-ewing-pdq>]
- **General Information about Osteosarcoma and Undifferentiated Pleomorphic Sarcoma (UPS), Formerly Called Malignant Fibrous Histiocytoma (MFH) of Bone** [[https://www.cancer.gov/types/bone/patient/osteosarcoma-treatment-pdq#\\_1](https://www.cancer.gov/types/bone/patient/osteosarcoma-treatment-pdq#_1)]  
 (National Cancer Institute)  
Also in Spanish [[https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-osteosarcoma-pdq#\\_1](https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-osteosarcoma-pdq#_1)]
- **Metastatic Bone Disease** [<https://orthoinfo.aaos.org/en/diseases--conditions/metastatic-bone-disease/>]  
(American Academy of Orthopaedic Surgeons)

## Genetics

- **Chordoma: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/chordoma>]  (National Library of Medicine)
- **Ewing sarcoma: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/ewing-sarcoma>]  
 (National Library of Medicine)
- **Li-Fraumeni syndrome: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/li-fraumeni-syndrome>]  
 (National Library of Medicine)

## Statistics and Research




- **Cancer of the Bone and Joint** [<https://seer.cancer.gov/statfacts/html/bones.html>]  (National Cancer Institute)

What's New in Bone Cancer Research? [<https://www.cancer.org/cancer/types/bone-cancer/about/new-research.html>]

(American Cancer Society)

Also in Spanish [<https://www.cancer.org/es/cancer/tipos/cancer-de-hueso/acerca/nuevas-investigaciones.html>]

## Clinical Trials


- ClinicalTrials.gov: Bone Neoplasms [<https://clinicaltrials.gov/search?cond=%22Bone+Neoplasms%22&aggFilters=status:not%20rec>]  (National Institutes of Health)
- ClinicalTrials.gov: Osteosarcoma [<https://clinicaltrials.gov/search?cond=%22Osteosarcoma%22&aggFilters=status:not%20rec>]  (National Institutes of Health)
- ClinicalTrials.gov: Sarcoma, Ewing [<https://clinicaltrials.gov/search?cond=%22Sarcoma,+Ewing's%22&aggFilters=status:not%20rec>]  (National Institutes of Health)

## Journal Articles


### References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- Article: The Design of a Patient-Centered Hierarchal Composite Outcome for a Multi-Center... [<https://www.ncbi.nlm.nih.gov/pubmed/40558261>]
- Article: Outcomes of Radium-223 and Stereotactic Ablative Radiotherapy Versus Stereotactic Ablative Radiotherapy... [<https://www.ncbi.nlm.nih.gov/pubmed/40334149>]
- Article: Methotrexate, Doxorubicin, and Cisplatin Versus Methotrexate, Doxorubicin, and Cisplatin + Ifosfamide... [<https://www.ncbi.nlm.nih.gov/pubmed/40138604>]
- Bone Cancer -- see more articles [<https://pubmed.ncbi.nlm.nih.gov/?term=%22Bone+Neoplasms%22%5Bmajr%3Anoexp%5D+AND+humans%5Bmh%5D+AND+english%5Bla%5D+AND+%22last+1+Year%22+%5Bedat%5D+AND+%28patient+education+handout%5Bpt%5D+OR+guideline%5Bpt%5D+OR+clinical+trial%5Bpt%5D%29++NOT+%28letter%5Bpt%5D+OR+case+reports%5Bpt%5D+OR+editorial%5Bpt%5D+OR+comment%5Bpt%5D%29+AND+free+full+text%5Bsb%5D+>]

## Find an Expert

- American Cancer Society [<https://www.cancer.org/>]
- Choosing a Cancer Doctor [<https://www.cancer.org/cancer/managing-cancer/finding-care/where-to-find-cancer-care/choosing-a-cancer-doctor.html>] (American Cancer Society)  
Also in Spanish [<https://www.cancer.org/es/cancer/como-sobrellevar-el-cancer/encontrar-tratamiento/como-elegir-un-medico-y-un-hospital/como-seleccionar-a-un-medico.html>]
- National Cancer Institute [<https://www.cancer.gov/>]   
Also in Spanish [<https://www.cancer.gov/espanol>]

## Children

- Childhood Cancer: Osteosarcoma [<https://kidshealth.org/en/parents/cancer-osteosarcoma.html>] (Nemours Foundation)  
Also in Spanish [<https://kidshealth.org/es/parents/cancer-osteosarcoma.html>]
- Childhood Chordoma Treatment [<https://www.cancer.gov/types/bone/patient/child-chordoma-treatment-pdq>]  (National Cancer Institute)  
Also in Spanish [<https://www.cancer.gov/espanol/tipos/hueso/paciente/tratamiento-cordoma-infantil-pdq>]

## Patient Handouts

- After chemotherapy - discharge [<https://medlineplus.gov/ency/patientinstructions/000012.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/patientinstructions/000012.htm>]
- Bone lesion biopsy [<https://medlineplus.gov/ency/article/003923.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003923.htm>]
- Bone tumor [<https://medlineplus.gov/ency/article/001230.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001230.htm>]

- Ewing sarcoma [<https://medlineplus.gov/ency/article/001302.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001302.htm>]
- Osteosarcoma [<https://medlineplus.gov/ency/article/001650.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001650.htm>]



## MEDICAL ENCYCLOPEDIA

After chemotherapy - discharge [<https://medlineplus.gov/ency/patientinstructions/000012.htm>]

Bone lesion biopsy [<https://medlineplus.gov/ency/article/003923.htm>]

Bone scan [<https://medlineplus.gov/ency/article/003833.htm>]

Bone tumor [<https://medlineplus.gov/ency/article/001230.htm>]

Bone x-ray [<https://medlineplus.gov/ency/article/003808.htm>]

Ewing sarcoma [<https://medlineplus.gov/ency/article/001302.htm>]

Joint x-ray [<https://medlineplus.gov/ency/article/003810.htm>]

Osteosarcoma [<https://medlineplus.gov/ency/article/001650.htm>]

Thoracic spine x-ray [<https://medlineplus.gov/ency/article/003806.htm>]

## Related Health Topics

Bone Diseases [<https://medlineplus.gov/bonediseases.html>]

## National Institutes of Health

The primary NIH organization for research on *Bone Cancer* is the National Cancer Institute [<http://www.cancer.gov/>]

## Other Languages

Find health information in languages other than English [<https://medlineplus.gov/languages/bonecancer.html>] on *Bone Cancer*

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