



[Home](#) → [Health Topics](#) → Bone Diseases

URL of this page: <https://medlineplus.gov/bonediseases.html>

Bone Diseases

Your bones help you move, give you shape and support your body. They are living tissues that rebuild constantly throughout your life. During childhood and your teens, your body adds new bone faster than it removes old bone. After about age 20, you can lose bone faster than you make bone. To have strong bones when you are young, and to prevent bone loss when you are older, you need to get enough calcium [<https://medlineplus.gov/calcium.html>] , vitamin D [<https://medlineplus.gov/vitamind.html>] , and exercise. You should also avoid smoking and drinking too much alcohol.

Bone diseases can make bones easy to break. Different kinds of bone problems include:





- Low bone density [<https://medlineplus.gov/bonedensity.html>] and osteoporosis [<https://medlineplus.gov/osteoporosis.html>] , which make your bones weak and more likely to break
- Osteogenesis imperfecta [<https://medlineplus.gov/osteogenesisimperfecta.html>] makes your bones brittle
- Paget's disease of bone [<https://medlineplus.gov/pagetsdiseaseofbone.html>] makes them weak
- Bones can also develop cancer [<https://medlineplus.gov/bonecancer.html>] and infections [<https://medlineplus.gov/boneinfections.html>]
- Other bone diseases, which are caused by poor nutrition, genetics, or problems with the rate of bone growth or rebuilding

NIH: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Start Here

- Bones, Muscles, and Joints [<https://kidshealth.org/en/parents/bones-muscles-joints.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/bones-muscles-joints.html>]

Diagnosis and Tests

- Alkaline Phosphatase [<https://medlineplus.gov/lab-tests/alkaline-phosphatase/>]  (National Library of Medicine)
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/fosfatasa-alcalina/>]
- 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 Density Scan [<https://medlineplus.gov/lab-tests/bone-density-scan/>]  (National Library of Medicine)
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/densitometria-osea/>]
- 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>]
- Bone X-Ray [<https://www.radiologyinfo.org/en/info/bonerad>]
 (American College of Radiology; Radiological Society of North America)
Also in Spanish [<https://www.radiologyinfo.org/es/info/bonerad>]
- Calcium Blood Test [<https://medlineplus.gov/lab-tests/calcium-blood-test/>]  (National Library of Medicine)
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-calcio-en-la-sangre/>]

Prevention and Risk Factors

- **Healthy Bones at Every Age** [<https://orthoinfo.aaos.org/en/staying-healthy/healthy-bones-at-every-age/>] (American Academy of Orthopaedic Surgeons)



Living With

- **Bone Healing** [<https://www.foothealthfacts.org/conditions/bone-healing>] (American College of Foot and Ankle Surgeons)
Also in Spanish [<https://www.foothealthfacts.org/conditions/bone-healing?lang=es-MX>]























Related Issues























- **Bone and Joint Problems Associated with Diabetes** [<https://www.mayoclinic.org/diseases-conditions/diabetes/in-depth/diabetes/ART-20049314?p=1>] (Mayo Foundation for Medical Education and Research)
Also in Spanish [<https://www.mayoclinic.org/es/diseases-conditions/diabetes/in-depth/diabetes/art-20049314?p=1>]
- **Exercise and Bone Health** [<https://orthoinfo.aaos.org/en/staying-healthy/exercise-and-bone-health>] (American Academy of Orthopaedic Surgeons)
- **Hyperparathyroidism** [<https://familydoctor.org/condition/hyperparathyroidism/?adfree=true>] (American Academy of Family Physicians)
Also in Spanish [<https://es.familydoctor.org/concion/hiperparatiroidismo-es/?adfree=true>]





















Specifics

- **Bone Spurs** [<https://www.mayoclinic.org/diseases-conditions/bone-spurs/symptoms-causes/syc-20370212?p=1>] (Mayo Foundation for Medical Education and Research)
Also in Spanish [<https://www.mayoclinic.org/es/diseases-conditions/bone-spurs/symptoms-causes/syc-20370212?p=1>]
- **Bone Tumor** [<https://orthoinfo.aaos.org/en/diseases--conditions/bone-tumor/>] (American Academy of Orthopaedic Surgeons)
- **Chondroblastoma** [<https://orthoinfo.aaos.org/en/diseases--conditions/chondroblastoma>] (American Academy of Orthopaedic Surgeons)
- **Chondromyxoid Fibroma** [<https://orthoinfo.aaos.org/en/diseases--conditions/chondromyxoid-fibroma>] (American Academy of Orthopaedic Surgeons)
- **Enchondroma** [<https://orthoinfo.aaos.org/en/diseases--conditions/enchondroma>] (American Academy of Orthopaedic Surgeons)
- **Extra-Abdominal Desmoid Tumors (Aggressive Fibromatoses)** [<https://orthoinfo.aaos.org/en/diseases--conditions/extra-abdominal-desmoid-tumors>] (American Academy of Orthopaedic Surgeons)
- **Fibrous Dysplasia** [<https://www.niams.nih.gov/health-topics/fibrous-dysplasia>]  (National Institute of Arthritis and Musculoskeletal and Skin Diseases)
- **Fibrous Dysplasia/McCune-Albright Syndrome** [<https://www.nidcr.nih.gov/health-info/fibrous-dysplasia-mccune-albright-syndrome>]  (National Institute of Dental and Craniofacial Research)
Also in Spanish [<https://www.nidcr.nih.gov/espanol/temas-de-salud/la-displasia-fibrosa-sindrome-de-mccune-albright>]
- **Hypophosphatasia** [<https://oif.org/wp-content/uploads/2019/10/hypophosphatasia-2.pdf>] (Osteogenesis Imperfecta Foundation) - **PDF**
- **Osteochondritis Dissecans** [<https://familydoctor.org/condition/osteochondritis-dissecans/?adfree=true>] (American Academy of Family Physicians)
Also in Spanish [<https://es.familydoctor.org/concion/osteocondritis-disecante-es/?adfree=true>]
- **Osteochondroma** [<https://orthoinfo.aaos.org/en/diseases--conditions/osteochondroma/>] (American Academy of Orthopaedic Surgeons)
- **Osteoid Osteoma** [<https://orthoinfo.aaos.org/en/diseases--conditions/osteoid-osteoma>] (American Academy of Orthopaedic Surgeons)
- **Osteopetroses** [<https://www.merckmanuals.com/home/children-s-health-issues/bone-disorders-in-children/osteopetroses>] (Merck & Co., Inc.)
Also in Spanish [<https://www.merckmanuals.com/es-us/hogar/salud-infantil/trastornos-%C3%B3seos-en-ni%C3%B1os/osteopetrosis>]


Genetics

- **Acromicric dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/acromicric-dysplasia>]  (National Library of Medicine)
- **Adams-Oliver syndrome:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/adams-oliver-syndrome>]  (National Library of Medicine)
- **Asphyxiating thoracic dystrophy:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/asphyxiating-thoracic-dystrophy>]  (National Library of Medicine)
- **Atelosteogenesis type 1:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/atelosteogenesis-type-1>]  (National Library of Medicine)
- **Atelosteogenesis type 2:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/atelosteogenesis-type-2>]  (National Library of Medicine)
- **Atelosteogenesis type 3:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/atelosteogenesis-type-3>]  (National Library of Medicine)
- **Boomerang dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/boomerang-dysplasia>]  (National Library of Medicine)
- **Buschke-Ollendorff syndrome:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/buschke-ollendorff-syndrome>]  (National Library of Medicine)
- **Caffey disease:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/caffey-disease>]  (National Library of Medicine)
- **Campomelic dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/campomelic-dysplasia>]  (National Library of Medicine)
- **Camurati-Engelmann disease:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/camurati-engelmann-disease>]  (National Library of Medicine)
- **Cantú syndrome:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/cantu-syndrome>]  (National Library of Medicine)
- **CHST3-related skeletal dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/chst3-related-skeletal-dysplasia>]  (National Library of Medicine)
- **Cranioectodermal dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/cranioectodermal-dysplasia>]  (National Library of Medicine)
- **Craniometaphyseal dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/craniometaphyseal-dysplasia>]  (National Library of Medicine)
- **Diastrophic dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/diastrophic-dysplasia>]  (National Library of Medicine)
- **Fibrochondrogenesis:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/fibrochondrogenesis>]  (National Library of Medicine)
- **Fibrodysplasia ossificans progressiva:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/fibrodysplasia-ossificans-progressiva>]  (National Library of Medicine)
- **Ghosal hematodiaphyseal dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/ghosal-hematodiaphyseal-dysplasia>]  (National Library of Medicine)
- **Gnathodiaphyseal dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/gnathodiaphyseal-dysplasia>]  (National Library of Medicine)
- **Greenberg dysplasia:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/greenberg-dysplasia>]  (National Library of Medicine)
- **Hereditary multiple osteochondromas:** MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/hereditary-multiple-osteochondromas>]  (National Library of Medicine)



- Hypophosphatasia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/hypophosphatasia>]  (National Library of Medicine)
- Intrauterine growth restriction, metaphyseal dysplasia, adrenal hypoplasia congenita, and genital anomalies: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/image-syndrome>]  (National Library of Medicine)
- Juvenile Paget disease: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/juvenile-paget-disease>]  (National Library of Medicine)
- Klippel-Feil syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/klippel-feil-syndrome>]  (National Library of Medicine)
- Langer mesomelic dysplasia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/langer-mesomelic-dysplasia>]  (National Library of Medicine)
- Larsen syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/larsen-syndrome>]  (National Library of Medicine)
- Léri-Weill dyschondrosteosis: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/leri-weill-dyschondrosteosis>]  (National Library of Medicine)
- Maffucci syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/maffucci-syndrome>]  (National Library of Medicine)
- Majeed syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/majeed-syndrome>]  (National Library of Medicine)
- Mandibuloacral dysplasia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/mandibuloacral-dysplasia>]  (National Library of Medicine)
- McCune-Albright syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/mccune-albright-syndrome>]  (National Library of Medicine)
- Melnick-Needles syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/melnick-needles-syndrome>]  (National Library of Medicine)
- Miller syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/miller-syndrome>]  (National Library of Medicine)
- Multicentric osteolysis, nodulosis, and arthropathy: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/multicentric-osteolysis-nodulosis-and-arthropathy>]  (National Library of Medicine)
- Multiple epiphyseal dysplasia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/multiple-epiphyseal-dysplasia>]  (National Library of Medicine)
- Nager syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/nager-syndrome>]  (National Library of Medicine)
- Ollier disease: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/ollier-disease>]  (National Library of Medicine)
- Osteopetrosis: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/osteopetrosis>]  (National Library of Medicine)
- Otopalatodigital syndrome type 1: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/otopalatodigital-syndrome-type-1>]  (National Library of Medicine)
- Otopalatodigital syndrome type 2: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/otopalatodigital-syndrome-type-2>]  (National Library of Medicine)
- Platyspondylic lethal skeletal dysplasia, Torrance type: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/platyspondylic-dysplasia-torrance-type>]  (National Library of Medicine)
- Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/polycystic-lipomembranous-osteodysplasia-with-sclerosing-leukoencephalopathy>]  (National Library of Medicine)

- Potocki-Shaffer syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/potocki-shaffer-syndrome>]  (National Library of Medicine)
- Progressive osseous heteroplasia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/progressive-osseous-heteroplasia>]  (National Library of Medicine)
- Proteus syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/proteus-syndrome>]  (National Library of Medicine)
- Pyle disease: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/pyle-disease>]  (National Library of Medicine)
- Rhizomelic chondrodysplasia punctata: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/rhizomelic-chondrodysplasia-punctata>]  (National Library of Medicine)
- Rothmund-Thomson syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/rothmund-thomson-syndrome>]  (National Library of Medicine)
- Schwartz-Jampel syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/schwartz-jampel-syndrome>]  (National Library of Medicine)
- SOST-related sclerosing bone dysplasia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/sost-related-sclerosing-bone-dysplasia>]  (National Library of Medicine)
- Spondylocarpotarsal synostosis syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/spondylocarpotarsal-synostosis-syndrome>]  (National Library of Medicine)
- Spondyloenchondrodysplasia with immune dysregulation: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/spondyloenchondrodysplasia-with-immune-dysregulation>]  (National Library of Medicine)
- Spondyloepiphyseal dysplasia congenita: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/spondyloepiphyseal-dysplasia-congenita>]  (National Library of Medicine)
- Stüve-Wiedemann syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/stuve-wiedemann-syndrome>]  (National Library of Medicine)
- Tarsal-carpal coalition syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/tarsal-carpal-coalition-syndrome>]  (National Library of Medicine)
- Tetra-amelia syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/tetra-amelia-syndrome>]  (National Library of Medicine)
- Trichorhinophalangeal syndrome type II: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/trichorhinophalangeal-syndrome-type-ii>]  (National Library of Medicine)
- Weyers acrofacial dysostosis: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/weyers-acrofacial-dysostosis>]  (National Library of Medicine)
- Winchester syndrome: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/winchester-syndrome>]  (National Library of Medicine)
- X-linked chondrodysplasia punctata 1: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/x-linked-chondrodysplasia-punctata-1>]  (National Library of Medicine)
- X-linked chondrodysplasia punctata 2: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/x-linked-chondrodysplasia-punctata-2>]  (National Library of Medicine)
- X-linked spondyloepiphyseal dysplasia tarda: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/x-linked-spondyloepiphyseal-dysplasia-tarda>]  (National Library of Medicine)

Videos and Tutorials

- Cracking Down on a Rare Bone Disorder [<https://www.youtube.com/watch?v=r8cy7AKtpg4>]  (National Institute of Dental and Craniofacial Research)

Clinical Trials



- ClinicalTrials.gov: Bone Diseases [<https://clinicaltrials.gov/search?cond=%22Bone+Diseases%22&aggFilters=status:not%20rec>]  (National Institutes of Health)
- ClinicalTrials.gov: Osteomyelitis [<https://clinicaltrials.gov/search?cond=%22Osteomyelitis%22&aggFilters=status:not%20rec>]  (National Institutes of Health)

Journal Articles


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

- Article: Ferroptosis and bone health: bridging the gap between mechanisms and therapy. [<https://www.ncbi.nlm.nih.gov/pubmed/40740786>]
- Article: Nucleic acid aptamers in orthopedic diseases: promising therapeutic agents for bone... [<https://www.ncbi.nlm.nih.gov/pubmed/40707473>]
- Article: Exploring Bone Health in Cystic Fibrosis: A Study From a Lung... [<https://www.ncbi.nlm.nih.gov/pubmed/40671433>]
- Bone Diseases -- see more articles [<https://pubmed.ncbi.nlm.nih.gov/?term=%22Bone+Diseases%22%5Bmajr%3Anoexp%5D+AND+humans%5Bmh%5D+AND+english%5Bla%5D+AND+%22last+1+Year%22+%5Bedat%5D+NOT+%28letter%5Bpt%5D+OR+case+reports%5Bpt%5D+OR+editorial%5Bpt%5D+OR+comment%5Bpt%5D%29+AND+free+full+text%5Bsb%5D+>]

Reference Desk

- Appendicular Skeleton [<https://training.seer.cancer.gov/anatomy/skeletal/divisions/appendicular.html>]  (National Cancer Institute)
- Axial Skeleton [<https://training.seer.cancer.gov/anatomy/skeletal/divisions/axial.html>]  (National Cancer Institute)

Find an Expert

- National Institute of Arthritis and Musculoskeletal and Skin Diseases [<https://www.niams.nih.gov/>] 
Also in Spanish [<https://www.niams.nih.gov/es/portal-en-espanol/>]

Children

- 3 Ways to Build Strong Bones [<https://kidshealth.org/en/parents/strong-bones.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/strong-bones.html>]
- Campomelic dysplasia [<https://rarediseases.info.nih.gov/diseases/10027/campomelic-dysplasia/>]  (Genetic and Rare Diseases Information Center)
Also in Spanish [<https://rarediseases.info.nih.gov/espanol/11882/displasia-campomelica/>]
- Campomelic Dysplasia (For Parents) [<https://kidshealth.org/en/parents/campomelic-dysplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/campomelic-dysplasia.html>]
- Cartilage Hair Hypoplasia (For Parents) [<https://kidshealth.org/en/parents/cartilage-hair-hypoplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/cartilage-hair-hypoplasia.html>]
- Diastrophic Dysplasia (For Parents) [<https://kidshealth.org/en/parents/diastrophic-dysplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/diastrophic-dysplasia.html>]
- Ellis-Van Creveld Dysplasia (For Parents) [<https://kidshealth.org/en/parents/ellis-dysplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/ellis-dysplasia.html>]
- Health Lesson: Learning About Bones [<https://www.niams.nih.gov/health-topics/educational-resources/health-lesson-learning-about-bones>]  **Easy-to-Read** (National Institute of Arthritis and Musculoskeletal and Skin Diseases)
- Kids and Their Bones [<https://www.niams.nih.gov/health-topics/kids-and-their-bones>]  (National Institute of Arthritis and Musculoskeletal and Skin Diseases)
Also in Spanish [<https://www.niams.nih.gov/es/informacion-de-salud/la-salud-de-los-huesos-de-los-ninos>]

- **Kniest Dysplasia (For Parents)** [<https://kidshealth.org/en/parents/kniest-dysplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/kniest-dysplasia.html>]
- **Multiple Epiphyseal Dysplasia (For Parents)** [<https://kidshealth.org/en/parents/multiple-epiphyseal-dysplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/multiple-epiphyseal-dysplasia.html>]
- **Osteochondritis Dissecans (For Parents)** [<https://kidshealth.org/en/parents/osteochondritis-dissecans.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/osteochondritis-dissecans.html>]
- **Pseudoachondroplasia (For Parents)** [<https://kidshealth.org/en/parents/pseudoachondroplasia.html>] (Nemours Foundation)
- **Spondyloepiphyseal Dysplasia Congenita (SEDc) (For Parents)** [<https://kidshealth.org/en/parents/sedc-dysplasia.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/sedc-dysplasia.html>]
- **Your Bones** [<https://kidshealth.org/en/kids/bones.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/kids/bones.html>]

Teenagers

- **Blount Disease** [<https://kidshealth.org/en/parents/blount-disease.html>] (Nemours Foundation)

Patient Handouts

- **ALP - blood test** [<https://medlineplus.gov/ency/article/003470.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003470.htm>]
- **ALP isoenzyme test** [<https://medlineplus.gov/ency/article/003497.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003497.htm>]
- **Blount disease** [<https://medlineplus.gov/ency/article/001584.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001584.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 pain or tenderness** [<https://medlineplus.gov/ency/article/003180.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003180.htm>]
- **Bone tumor** [<https://medlineplus.gov/ency/article/001230.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001230.htm>]
- **Bowlegs** [<https://medlineplus.gov/ency/article/001585.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001585.htm>]
- **Fibrous dysplasia** [<https://medlineplus.gov/ency/article/001234.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001234.htm>]
- **Osteomalacia** [<https://medlineplus.gov/ency/article/000376.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/000376.htm>]
- **Osteopenia - premature infants** [<https://medlineplus.gov/ency/article/007231.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/007231.htm>]



MEDICAL ENCYCLOPEDIA

Aging changes in the bones - muscles - joints [<https://medlineplus.gov/ency/article/004015.htm>]

ALP - blood test [<https://medlineplus.gov/ency/article/003470.htm>]

ALP isoenzyme test [<https://medlineplus.gov/ency/article/003497.htm>]

Blount disease [<https://medlineplus.gov/ency/article/001584.htm>]

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

Bone pain or tenderness [<https://medlineplus.gov/ency/article/003180.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>]

Bowlegs [<https://medlineplus.gov/ency/article/001585.htm>]

Calcium blood test [<https://medlineplus.gov/ency/article/003477.htm>]

Craniotabes [<https://medlineplus.gov/ency/article/001591.htm>]

Fibrous dysplasia [<https://medlineplus.gov/ency/article/001234.htm>]

Hyperbaric oxygen therapy [<https://medlineplus.gov/ency/article/002375.htm>]

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

McCune-Albright syndrome [<https://medlineplus.gov/ency/article/001217.htm>]

Orthopedic services [<https://medlineplus.gov/ency/article/007455.htm>]

Osteitis fibrosa [<https://medlineplus.gov/ency/article/001252.htm>]

Osteomalacia [<https://medlineplus.gov/ency/article/000376.htm>]

Osteopenia - premature infants [<https://medlineplus.gov/ency/article/007231.htm>]

Phosphorus blood test [<https://medlineplus.gov/ency/article/003478.htm>]

Pseudohypoparathyroidism [<https://medlineplus.gov/ency/article/000364.htm>]

Skeletal limb abnormalities [<https://medlineplus.gov/ency/article/003170.htm>]

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

X-ray - skeleton [<https://medlineplus.gov/ency/article/003381.htm>]

Related Health Topics

- Bone Cancer [<https://medlineplus.gov/bonecancer.html>]
- Bone Density [<https://medlineplus.gov/bonedensity.html>]
- Bone Infections [<https://medlineplus.gov/boneinfections.html>]
- Osteogenesis Imperfecta [<https://medlineplus.gov/osteogenesisimperfecta.html>]
- Osteonecrosis [<https://medlineplus.gov/osteonecrosis.html>]
- Osteoporosis [<https://medlineplus.gov/osteoporosis.html>]
- Paget's Disease of Bone [<https://medlineplus.gov/pagetsdiseaseofbone.html>]
- Rickets [<https://medlineplus.gov/rickets.html>]

National Institutes of Health

The primary NIH organization for research on *Bone Diseases* is the National Institute of Arthritis and Musculoskeletal and Skin Diseases [<http://www.niams.nih.gov/>]

Other Languages

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

NIH MedlinePlus Magazine

More Than Two Decades of NIH Research Gives Answers on a Rare Disease Affecting Bones, Skin, and the Endocrine System [<https://magazine.medlineplus.gov/article/more-than-two-decades-of-nih-research-gives-answers-on-a-rare-disease-affecting-bones-skin-and-the-endocrine-system>]

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