# Terminology in Health Care and Public Health Settings

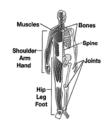
Unit 3 Musculoskeletal System

Component 3/Unit 3

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## Musculoskeletal System Overview

- · Muscular components
  - Muscles
- · Skeletal components
  - Bones of the skeleton
  - Joints



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## Musculoskeletal System Overview

- Functions
  - Internal framework of body
  - Supports body
  - Protects internal organs
  - Produces body movement



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## Musculoskeletal System

- Bones are connected to each other to form skeleton
  - Framework for the body
  - 206 bones
- Joint
  - Place where two bones meet
  - Held together by ligaments
  - Gives flexibility to skeleton
- Muscles are connected to the skeleton

### Myopathy

- Myopathy can cause weakness, pain or even páralysis.
- Some causes include
  - Injury or overuse, such as sprains or strains, cramps or tendinitis
  - Genetics, such as muscular dystrophy
  - Some cancers
  - Inflammation
  - Diseases of nerves that affect muscles
  - Infections
  - Certain medicines

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# Myositis

- Inflammation of your skeletal muscles
- Common causes can be an injury, infection or autoimmune dis
  - Polymyositis ca the muscles cl
  - Dermatomyosi a skin rash.
  - Both diseases prednisone, a other medicine

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sease.		
auses muscle weakness, usually in osest to the trunk of your body.		
tis causes muscle weakness, plus		
are usually treated with steroid medicine, and sometimes ss.		
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## Muscular dystrophy

- Cause muscle weakness and muscle loss.
- Some appear in infancy or childhood, while others may not appear until middle age or later.
- The person's muscles get weaker.
- Most eventually lose the ability to walk.
- There is no cure.
- Treatments include physical and speech therapy, orthopedic devices, surgery and medications.

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#### Muscular System Combining Forms

muscul/o muscle muscular
my/o muscle myopathy
myocardi/o heart muscle myocardium
tend/o tendon tendoplasty

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# The Spinal (Vertebral) Column

- Divided into five sections
  - Cervical
  - Thoracic
  - Lumbar
  - Sacrum
  - Соссух



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# **Upper Extremity**

- Arm
- · Consists of:
  - Humerus upper arm
  - Ulna part of forearm
  - Radius part of forearm
  - Carpals wrist bones
  - Metacarpals hand bones
  - Phalanges finger bones

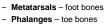


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## **Lower Extremity**

- Leg
- · Consists of:
  - Femur thigh bone
  - Patella knee cap
  - Tibia shin bone
  - Fibula lower leg bone
  - Tarsals ankle bones





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### **Fractures**

- · Types of fractures
  - Open or compound fracture.
  - Closed facture.
  - Stress fracture.
- Common causes due to car accidents, fall or sports injuries.
- Another cause is osteoporosis, which causes weakening of the bones.

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#### **Arthritis**

- · Means joint inflammation.
- Although it describes a symptom or sign rather than a specific diagnosis, it is often used to refer to any disorder that affects the joints.
- Arthritis is characterized by pain, swelling, inflammation, and stiffness.

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## Osteoporosis

- Makes your bones weak and more likely to break.
- Common in older women.
- Risk factors include
  - Getting older
  - Being small and thin
  - Having a family history of osteoporosis
  - Taking certain medicines
  - Being a white or Asian woman
  - Having osteopenia, which is low bone mass

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# Skeletal System Combining Forms

• arthr/o	joint	arthritis
• carp/o	wrist	carpal
<ul><li>cervic/o</li></ul>	neck	cervical
<ul><li>crani/o</li></ul>	skull	craniotomy
<ul><li>oste/o</li></ul>	bone	osteopathy
<ul><li>thorac/o</li></ul>	chest	thoracic
<ul><li>vertebr/o</li></ul>	vertebra	intervertebral

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