

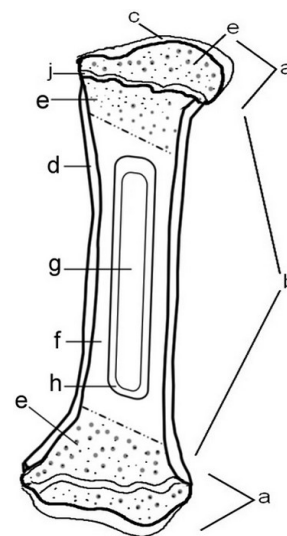
Skeletal system worksheet

Reading revision

Bones anatomy

- 1 medullary cavity
- 2 endosteum
- 3 compact bone
- 4 articular cartilage
- 5 epiphysis
- 6 cancellous (spongy) bone
- 7 epiphyseal line
- 8 periosteum
- 9 diaphysis

- a) It has a thin layer of compact bone, while internally the bone is cancellous. It is capped with articular cartilage.
- b) The shaft of the long bone. It has compact bone with a central cavity.
- c) It is found on both ends of long bones. It is slippery, smooth and bloodless.
- d) It a vascular, sensitive life support covering the bone.
- e) It is found mainly within the epiphysis and has a textured appearance.
- f) It is a dense bone with a repeated pattern arranged in concentric layers of solid bone tissue.
- g) It serves to lighten bone weight and provide space for marrow.
- h) This tissue lines the medullary cavity of bone.
- i) Also called the growth plate, it is found on both ends of the long bone.



Bones pathologies

1. Fractures

A fracture is a break in a bone. There are some types of fracture, match them with the definition and picture.

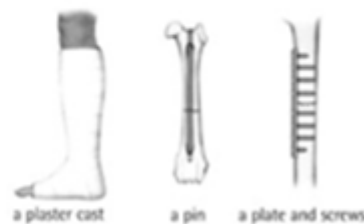
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|--------------------|--|
| 1. open (compound) | a) There is a break in the skin. |
| 2. comminuted | b) The bone is bent. It occurs mainly in children. |
| 3. displaced | c) The bone is broken into several pieces. |
| 4. greenstick | d) The broken pieces are separated. |
| 5. impacted | e) The broken pieces are pushed together. |



2. Treatment of fractures: Word Formation. Complete the correct form of the word.

Example: Most people find the idea of fame attractive 0 /attract/.

When the fragments of a _____ 1 /break/ bone heal and join together, they unite. _____ 2 /unite/ may be promoted, or helped, by reducing the fracture – replacing the fragments in their _____ 3 /anatomy/ position if they are displaced. After _____ 4 /reduce/, _____ 5



/excess/ movement of the bone is prevented by _____ 6 /fix/ – either external, for example a splint or plaster of Paris cast, or internal, for example a pin or plate and screws. A displaced fracture which is not reduced may result in _____ 7 /unite/- incomplete or incorrect union.

Wrist injuries

A What is the purpose of the video? Can you identify any key words?

B Decide if these statements are true or false.

- 1 Thousands of patients will profit from the new discovery.
- 2 A completely new type of ligament injury has been found.
- 3 Phil Jacobson has developed dull pain in his wrist following an ice-hockey incident.
- 4 A series of X-ray and MRI images helped identify the spot of the pain in Phil's wrist.
- 5 The source of wrist pain has not been identified so far only in a few patients.
- 6 Doctor Burger's diagnostic test is not complicated.
- 7 The pain in the wrist is due to an injury of the UT ligament.
- 8 Doctor Burger identified a type of wrist injury which he calls 'split-torn'.

C Fill-in the missing words:

- 1 The pain is caused by _____ and _____ of the ligament.
- 2 Doctor Burger fixes the injury by _____ away the damaged tissue and _____ the sides back together
- 3 Researchers will have to find out if this type of injury affects other areas of the body, for example the _____ or _____
- 4 According to Doctor Burger, similar injuries can be _____

D Discussion

Grammar

72.2 Put in a/an or the.

- 1 a This house is very nice. Has it got _____ garden?
b It's a beautiful day. Let's sit in _____ garden.
c I like living in this house, but it's a shame that _____ garden is so small.
- 2 a Can you recommend _____ good restaurant?
b We had dinner in _____ very nice restaurant.
c We had dinner in _____ best restaurant in town.
- 3 a She has _____ French name, but in fact she's English, not French.
b What's _____ name of that man we met yesterday?
c We stayed at a very nice hotel – I can't remember _____ name now.
- 4 a There isn't _____ airport near where I live. _____ nearest airport is 70 miles away.
b Our flight was delayed. We had to wait at _____ airport for three hours.
c Excuse me, please. Can you tell me how to get to _____ airport?
- 5 a 'Are you going away next week?' 'No, _____ week after next.'
b I'm going away for _____ week in September.
c Gary has a part-time job. He works three mornings _____ week.

73.3 Put in the or a where necessary. (See Unit 72 for a and the if necessary.)

- 1 Sun is star. The sun is a star.
- 2 I'm fed up with doing same thing every day.
- 3 Room 25 is on second floor.
- 4 Moon goes round earth every 27 days.
- 5 It was very hot day. It was hottest day of year.
- 6 We had lunch in nice restaurant by sea.
- 7 What's on at cinema this week?
- 8 I like to eat good breakfast before I go to work.
- 9 We missed our train because we were waiting on wrong platform.
- 10 Next train to London leaves from Platform 3.
- 11 You'll find information you need at top of page 15.