#### What are the functions of bones?

- support and protection
- movement
- a Ca<sup>2\*</sup> (and PO<sub>4</sub><sup>3\*</sup>) store
- 4. a bone marrow store

#### what are the components of the bone's matrix?

- 1. type 1 collagen fibres (~90-95%)
- some proteoglycans (~5%)

#### what is the main function of collagen?

provides the tensile strength

#### what is the main function of proteoglycans?

provide the compressive strength

#### what are the two types of bones?

- Compact bone (aka cortical bone) → dense, stiff structure
- Trabecular bone (aka cancellous or spongy bone) → spongy, light structure

#### What is the porosity of the compact bone?

low porosity (5-25%)

#### What is the porosity of the trabecular bone?

high porosity (up to 70%)

#### where can u find cortical and trabecular bone?

In long bones cortical bone forms the shaft → diaphysis

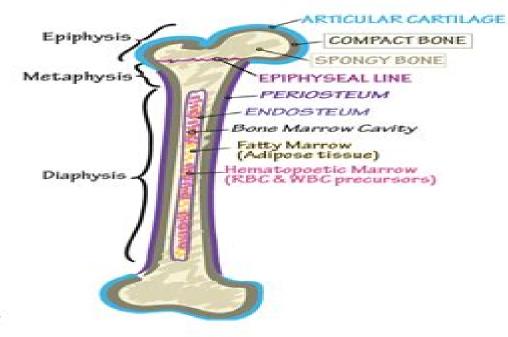
Trabecular bone is found at the ends → epiphysis/metaphysis

#### What is between the epiphysis and the metaphysis?

the epiphyseal growth plate

#### how does the growth of the long bones occur?

Growth of the long bones occur at the growth plate until ~18 when it fuses with the metaphysis



#### What is ossification?

During fetal life, bones are modelled in cartilage (type 1 collagen) and then mineralized / the natural process of bone formation.

# What controls the cartilage proliferation at the growth plate and elongation of the bones?

- 1. growth hormone
- insulin-like growth hormone (IGF-1)

#### what happens once growth plate fuses?

cartilage proliferation and elongation stop vascularisation and ossification of the bone start

#### what is the unit of bone growth?

the osteon

#### what is an osteon?

a series of concentric circles of collagen deposition around a blood vessel

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**Christian G. Meyer** 

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