FUNCTIONS the



Keeps the body upright and prevents it from collapsing

PROTECTION 3

Shields soft organs such as the brain, heart, and lungs

3 MOVEMENT

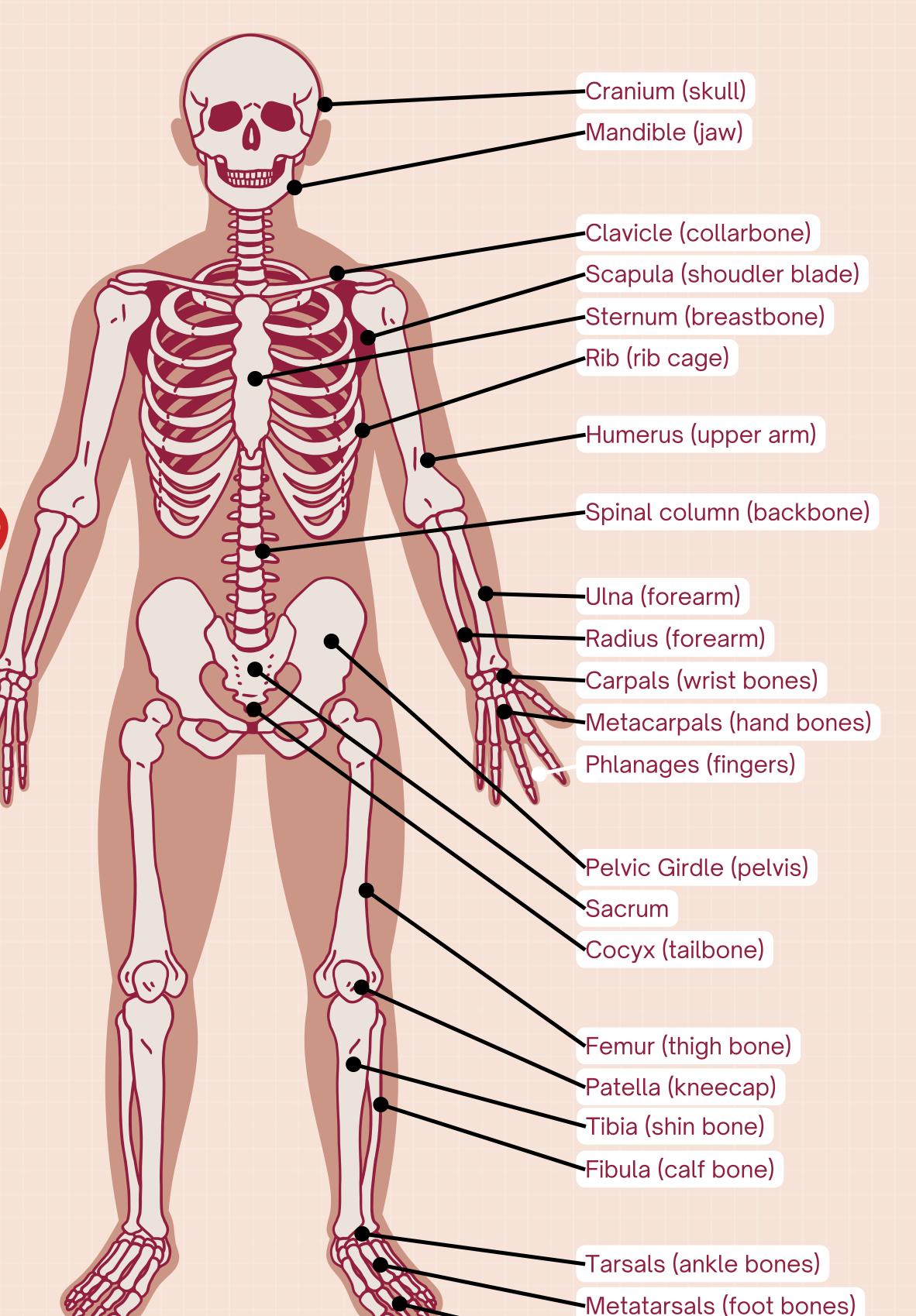
Allows movement by working together with the muscles

STORAGE 4

Minerals like calcium & phosphorus

5 BLOOD CELL PRODUCTION

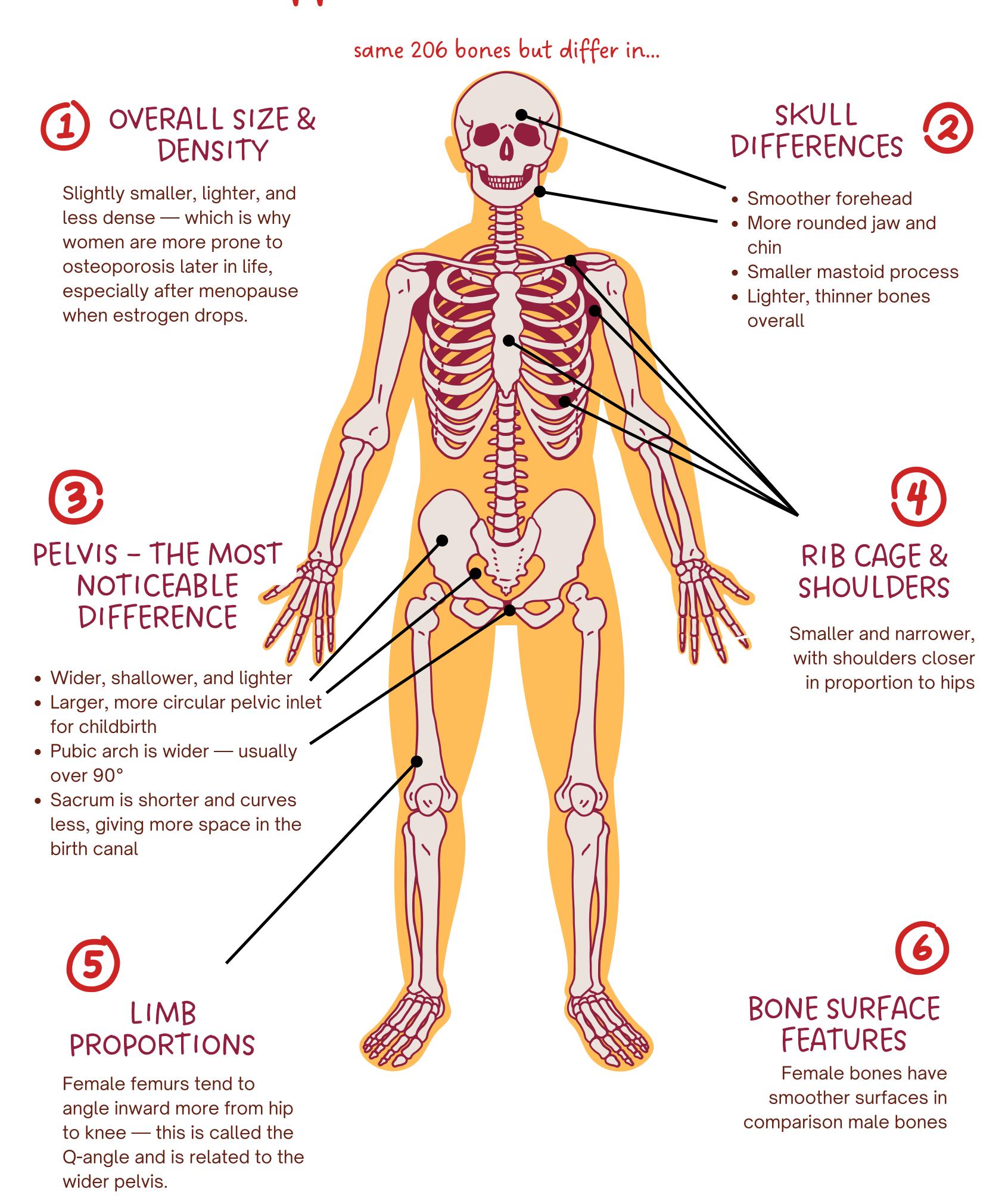
Occurs in bone marrow



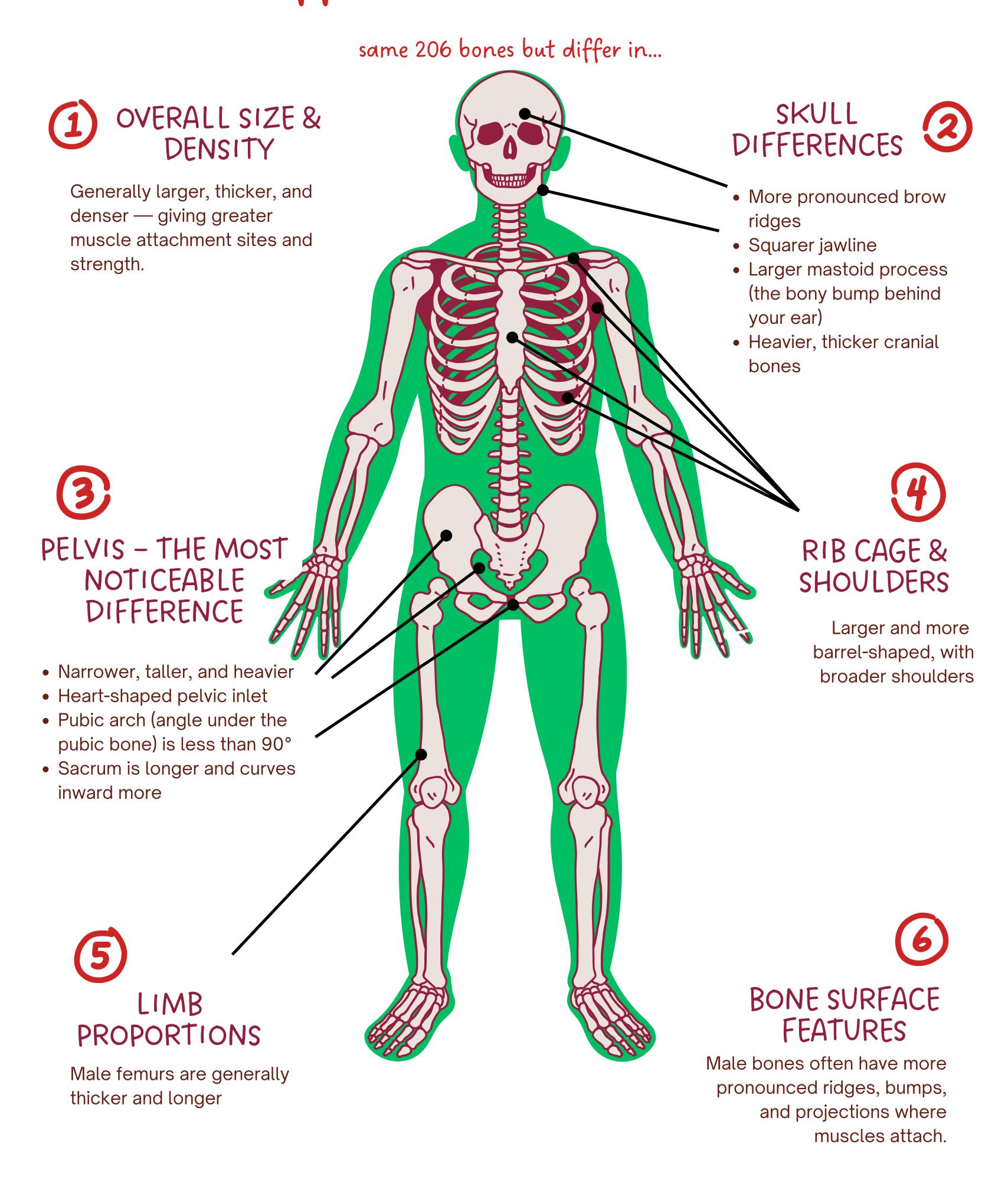
Phalanges (toe bones)

Skeletal system

Skeletal Differences in FEMALE BONES



Skeletal Differences in MALE BONES



Male & Female Skeletal Differences

Male and female skeletons differ and we're going to look at these fascinating traits.

These differences aren't about one being "better" or "stronger" than the other, they're simply adaptations for different biological roles, especially when it comes to childbirth. Think of it as nature's way of customizing the same design for different purposes.

Both male and female skeletons share the same 206 bones, but there are differences in:

- 1. Size
- 2.Shape
- 3. Angles
- 4. Bone density

These differences start becoming more noticeable after puberty, when hormones like estrogen and testosterone influence bone growth.

Fun fact:

Anthropologists can often tell biological sex from just the pelvis alone with high accuracy.

Why These Differences Matter

- 1. **Forensic Science & Anthropology** Experts can estimate biological sex from skeletal remains with high accuracy by studying the pelvis, skull, and long bones.
- 2. **Health & Sports** Understanding these differences helps in training, injury prevention, and bone health planning. This wider angle is why females are more prone to knee injuries in sports like soccer or basketball something to keep in mind for training and joint care.
- 3. **Holistic Perspective** Your skeleton reflects your life's story nutrition, activity, hormones, and even stress can influence its shape and strength over time. This means females may need to focus more on weight-bearing exercise and mineral-rich diets to protect bone health over time.

Male and female skeletons share far more similarities than differences — but those differences are fascinating adaptations for life's diverse needs. No matter your bone structure, the key to lifelong skeletal health is movement, nutrition, posture, and care.