

No nes about it!

Samantha Sellers and Jordan Sturgill



High School College (Bachelor's) Graduate School



Ph.D Doctorate of Philosophy

M.D. **Doctorate of Medicine**

P.A. Masters in PA studies



4-6 years after Bachelor's Advances scientific/medical knowledge



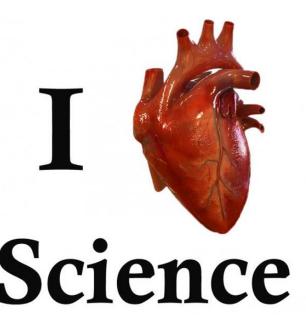
4 years after Bachelor's + residency



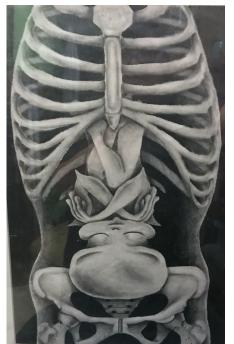
2 years after Bachelor's

Uses existing knowledge to medically treat people

Art & Science



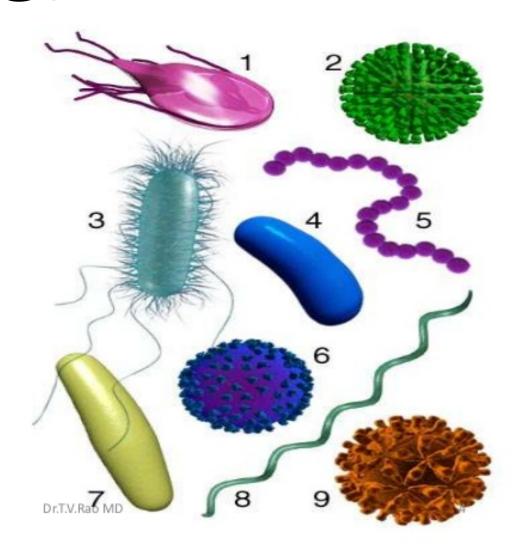






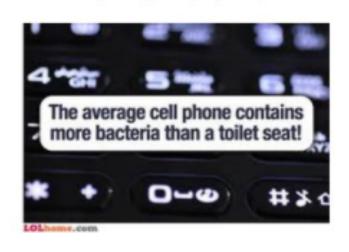
What is Microbiology?

- Branch of science that studies
 - Bacteria
 - Viruses
 - Protists
 - Fungi

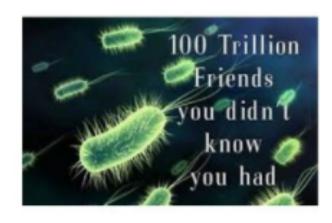


Fun Facts about Bacteria

 There are 10 times more bacterial cells living on and in you, than your own body cells.







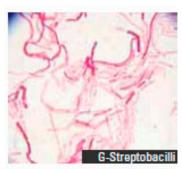
Johnson-Johnson

- Bachelor's in Microbiology
- Worked as a Microbiologist
- Along side
 - Chemists
 - Biologists
 - Statisticians

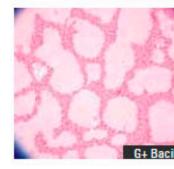


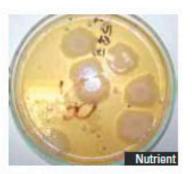






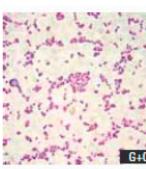


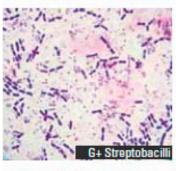


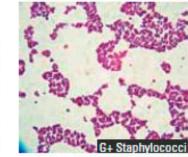


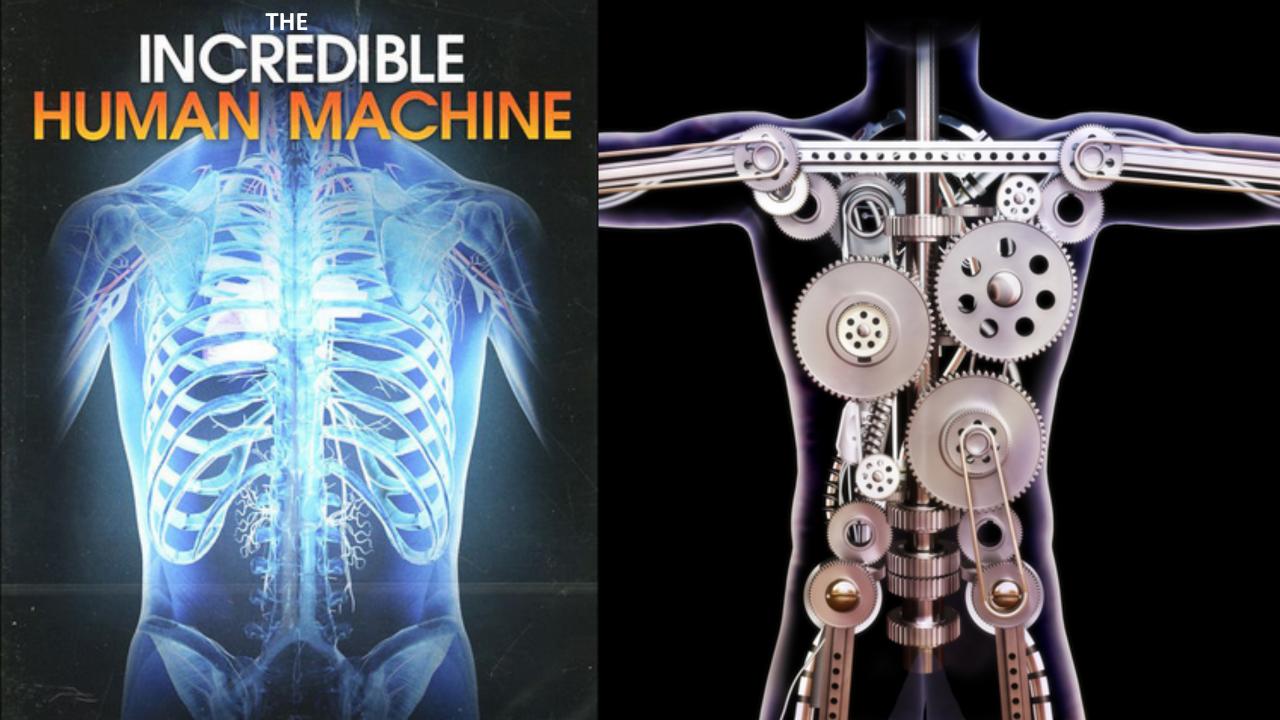


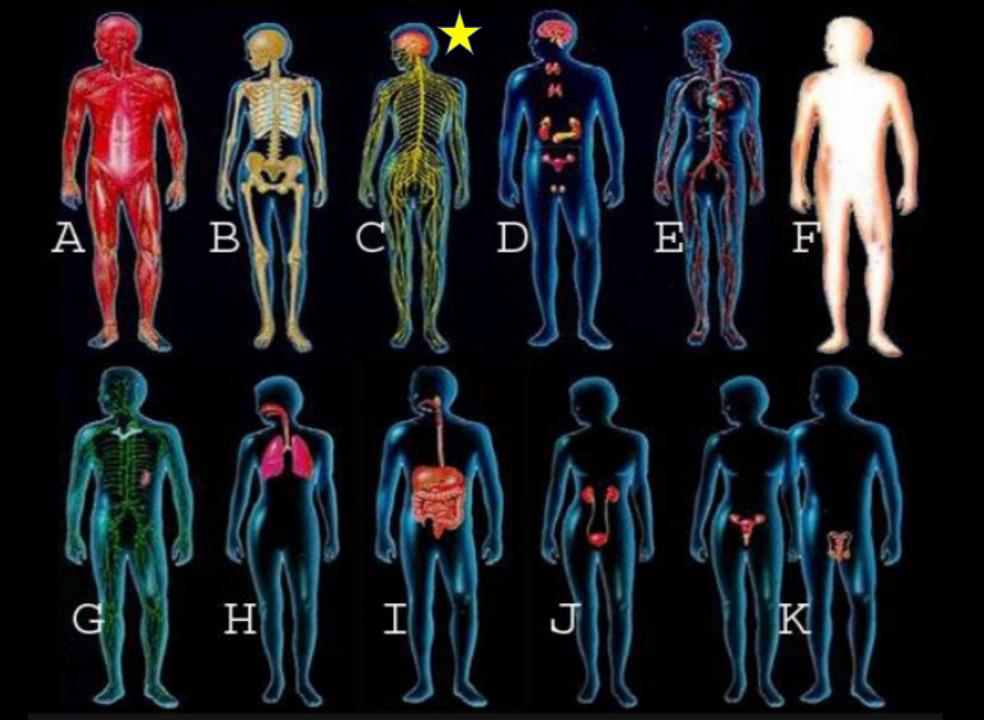


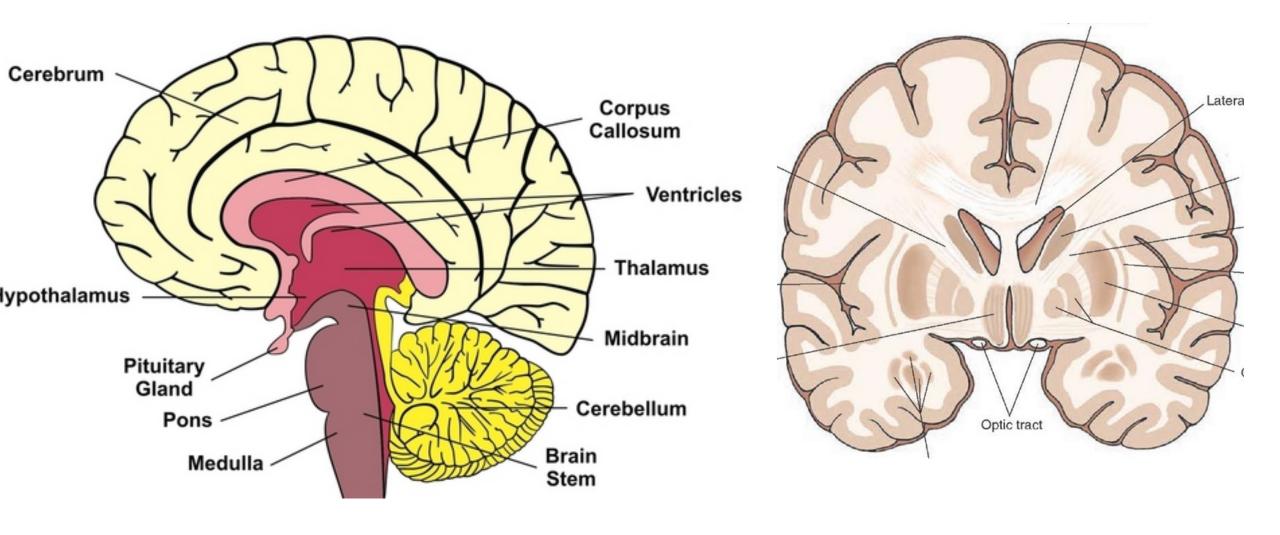


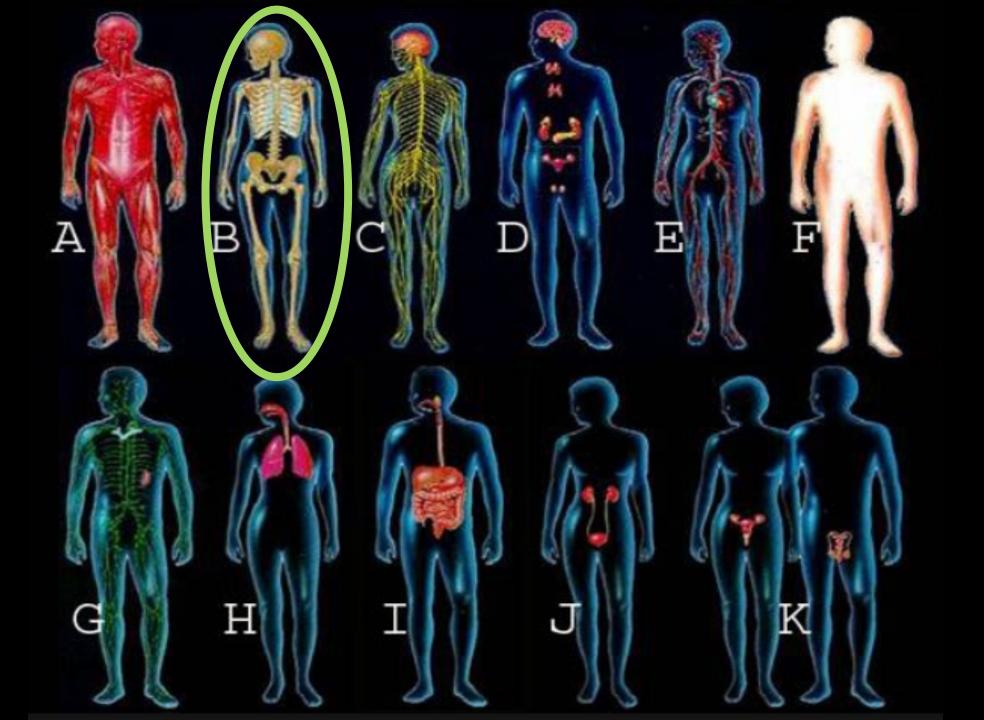












The Skeletal System

- Functions:
 - Supports body
 - Allows movement
 - Protects internal organs
 - Stores calcium
 - Makes blood cells

- Parts
 - Bones
 - Joints
 - Ligaments
 - Cartilage



• How many bones are in the adult human body?

Who has more bones a baby or an adult?

What is the smallest bone?



• How many bones are in the adult human body?

206!

Who has more bones a baby or an adult?

What is the smallest bone?

How many bones are in the adult human body?

206!

Who has more bones a baby or an adult?

A newborn baby has 300 bones!

What is the smallest bone?

How many bones are in the adult human body?

206!

Who has more bones a baby or an adult?

What is the smallest bone?

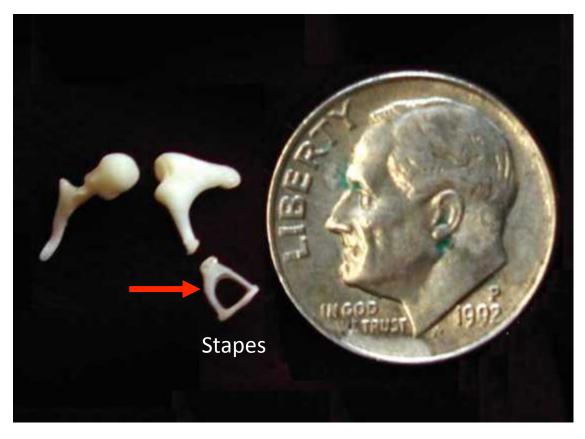


How many bones are in the adult human body?

206!

Who has more bones a baby or an adult?

What is the smallest bone?





How do we see bones? X-Rays

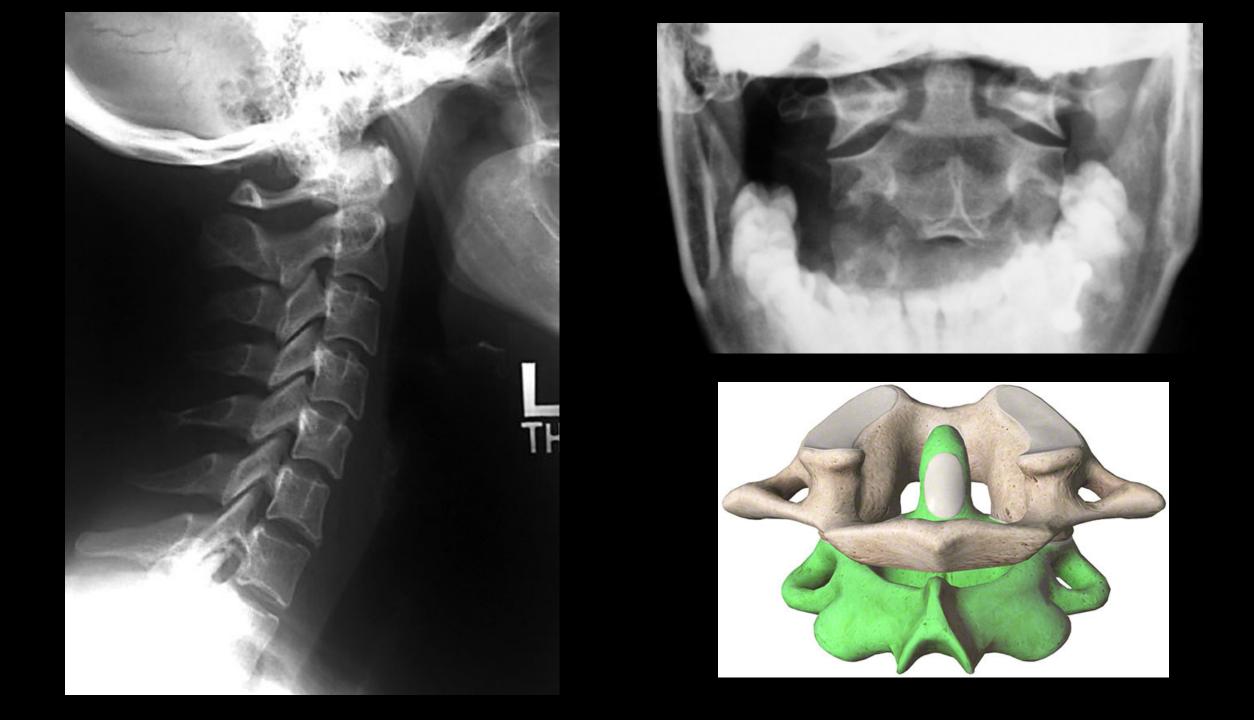


Invented by Wilhelm Conrad Röntgen, a German physicist, in 1895

By accident!

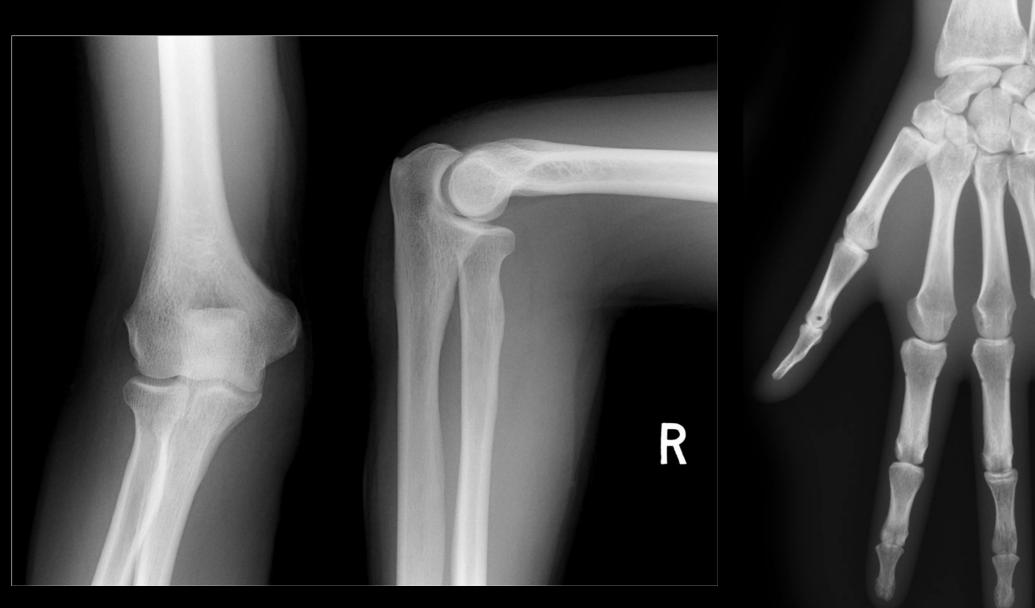


В

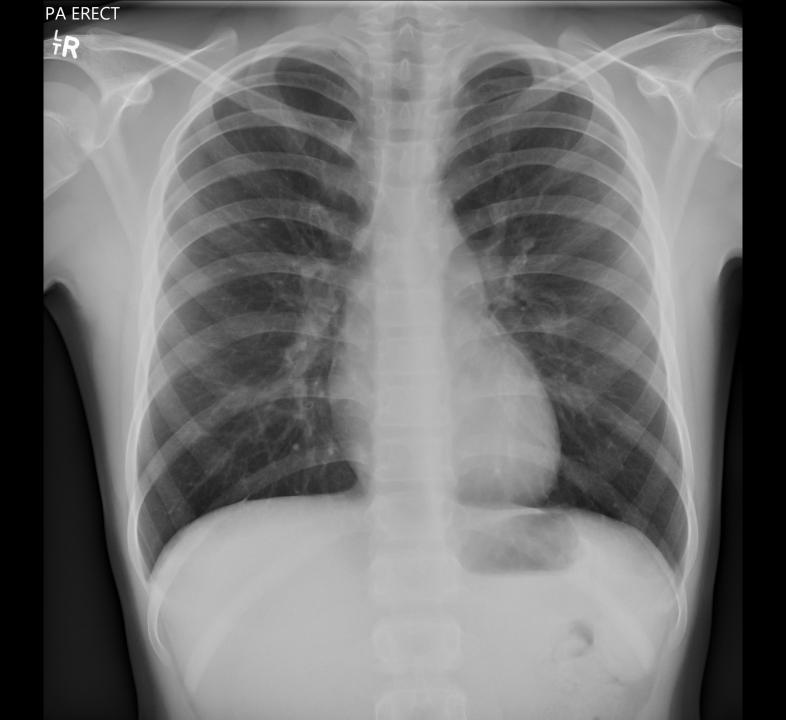


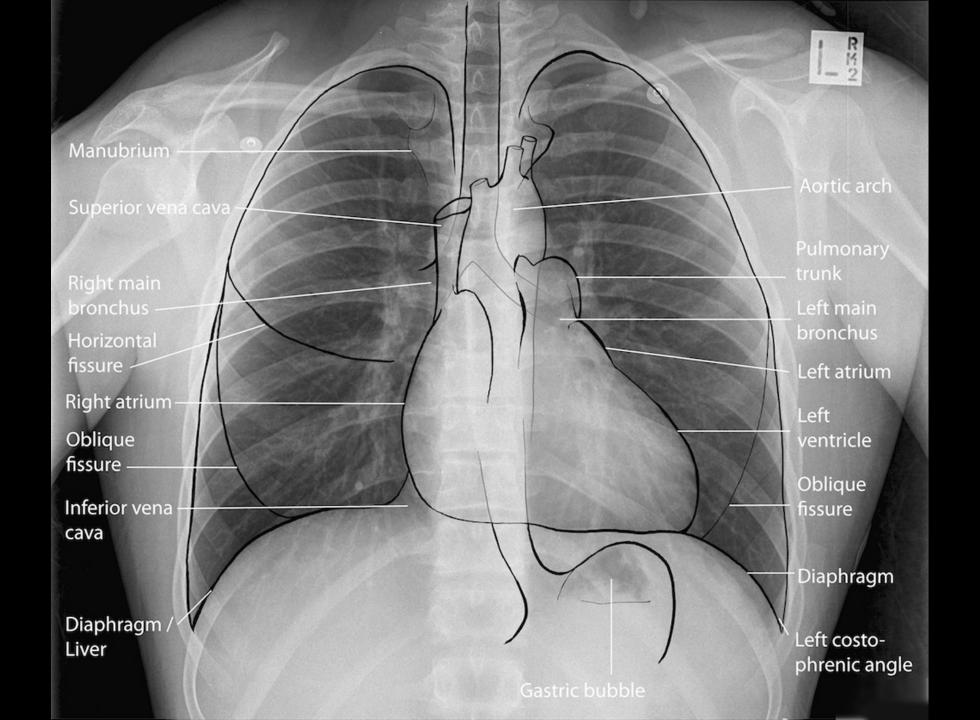


















Female Male





What are these spaces?

Is something actually there?



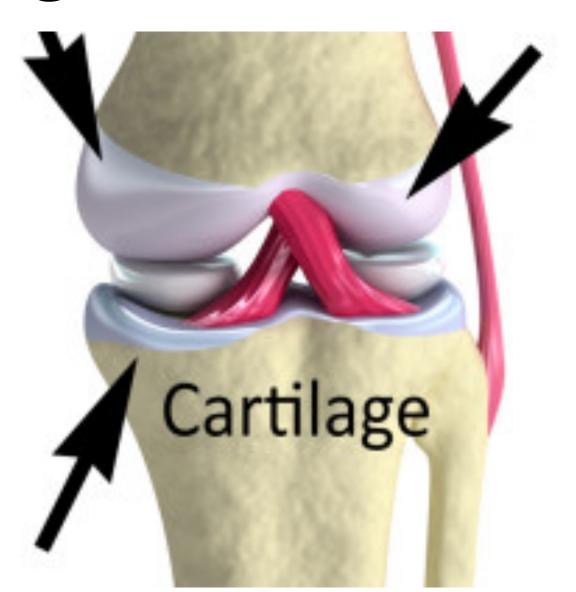


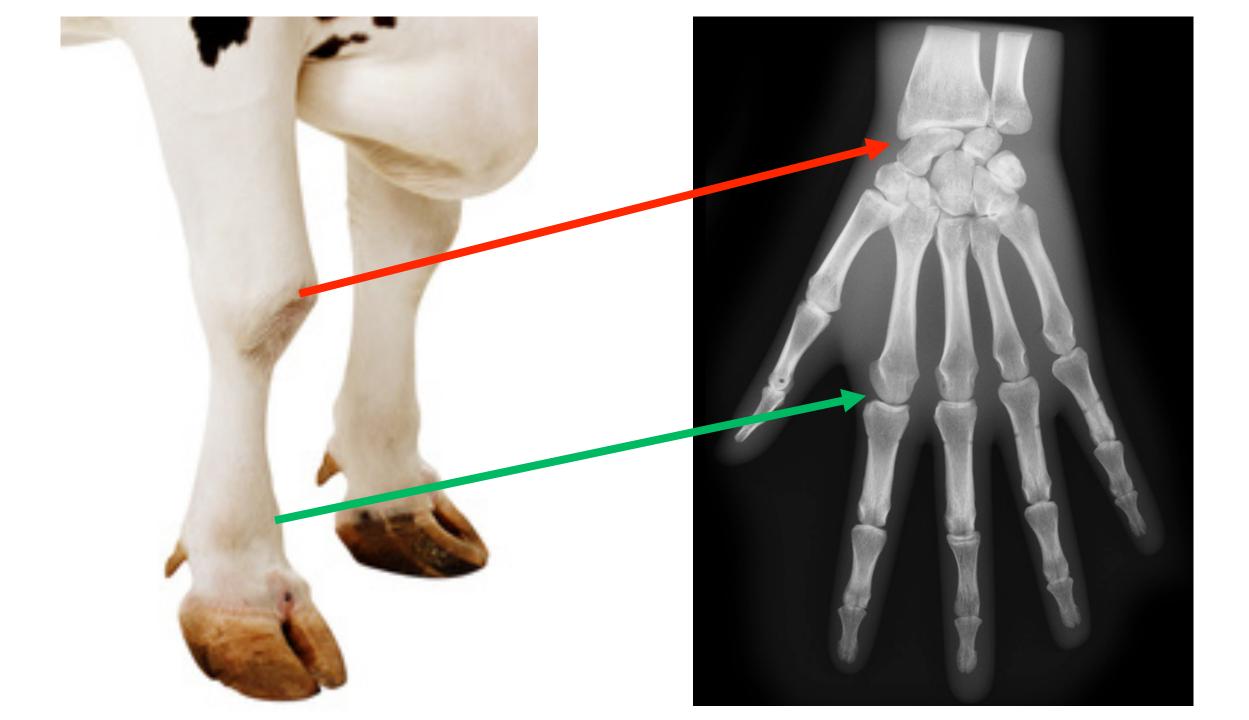
Articular Cartilage

Shock absorber

Friction free surface for gliding

 Would you like to see a real joint with cartilage still attached?





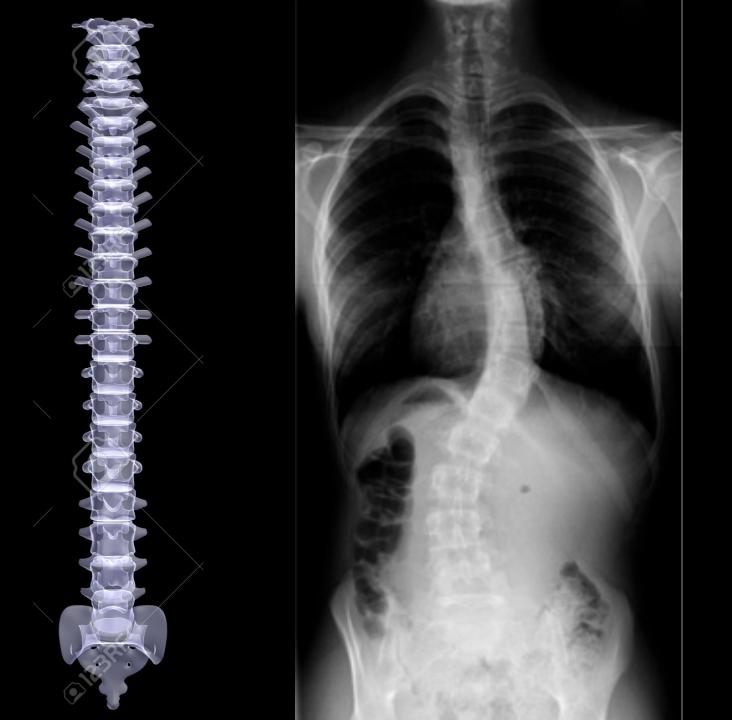








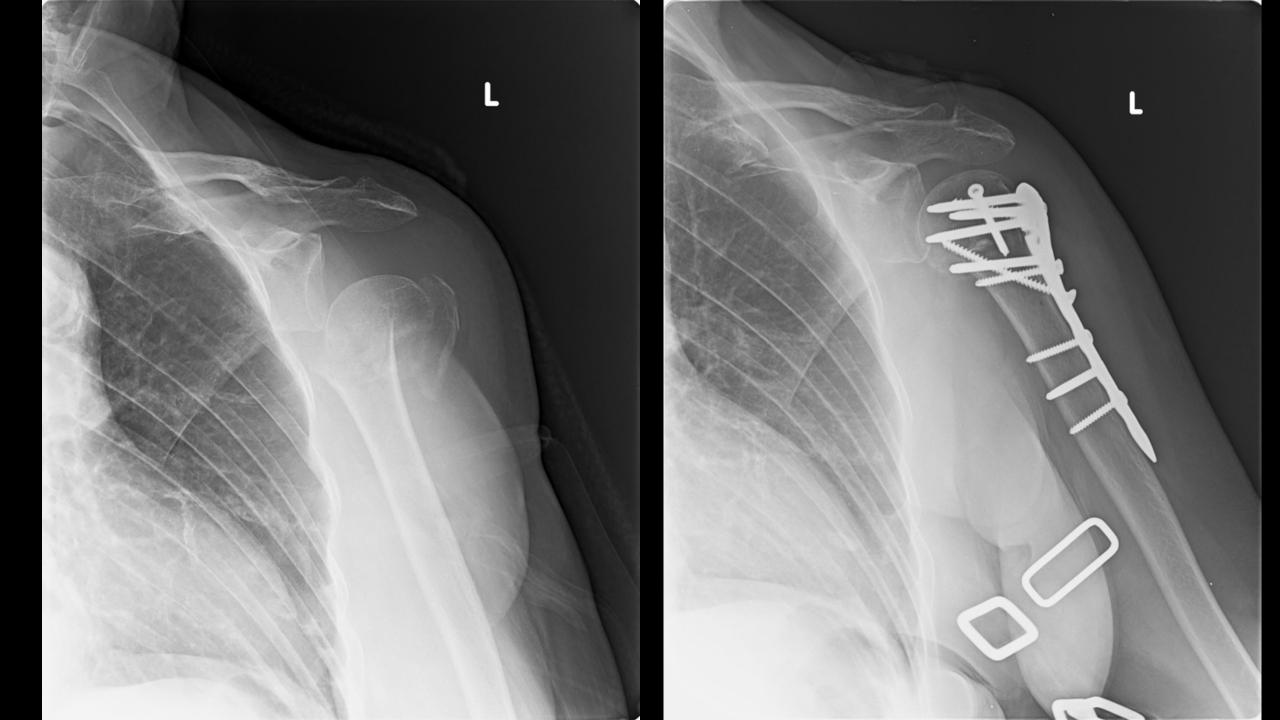


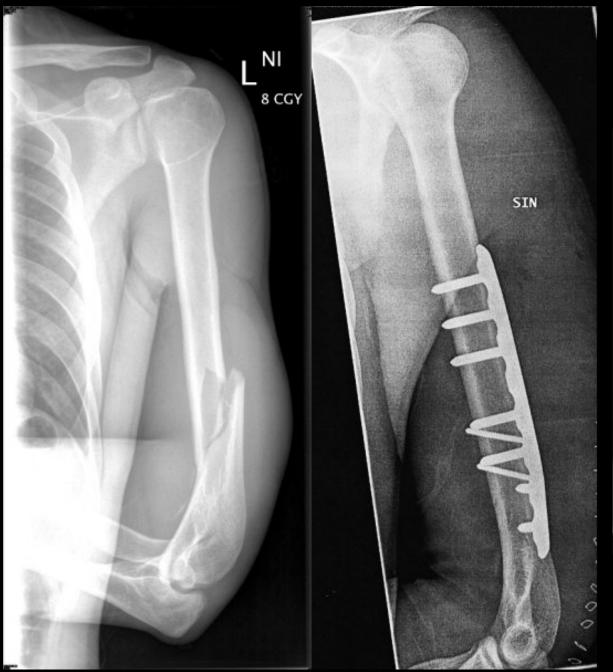






















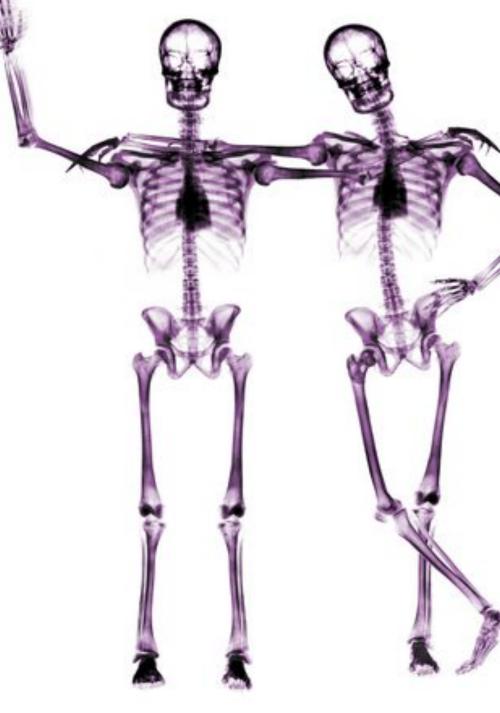






If you had fun today and are interested in a career in science, know that there is a place for you in the scientific community. No matter what your interest are!

Consider the following jobs:



Careers in Science/Medicine

- Physician
- Pharmacists
- PA
- Nurse Practitioner
- Nurse (RN, CNA)
- X-ray technician
- Medical Assistant
- Radiation Therapist
- Physical Therapist

- Athletic Trainer
- EMT/Paramedic
- Pharmacy Technician

- Research Scientist
- Academic Professor
- Assistant Scientist
- Forensic Scientist
- Laboratory Assistant
- Medical lab technician

Educators at all levels!

