

Medicine

Week 8 - Recap

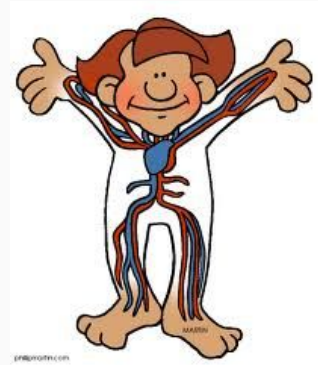


What were some of the things you liked about this course?

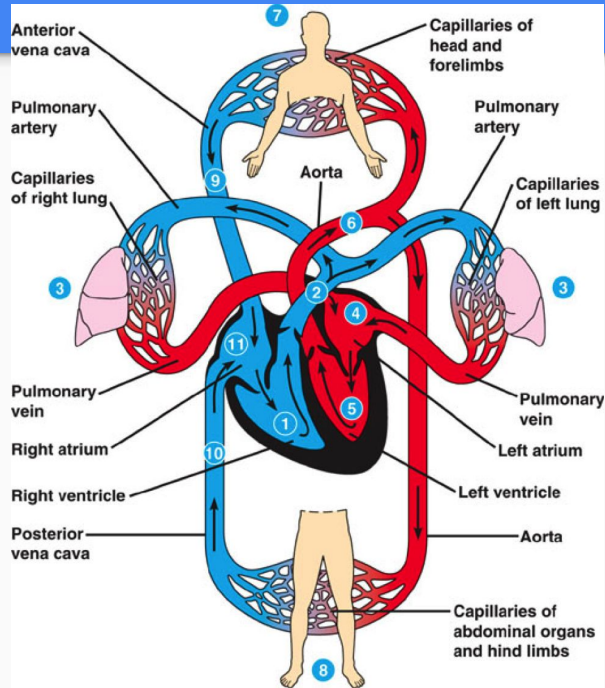


Week 1:

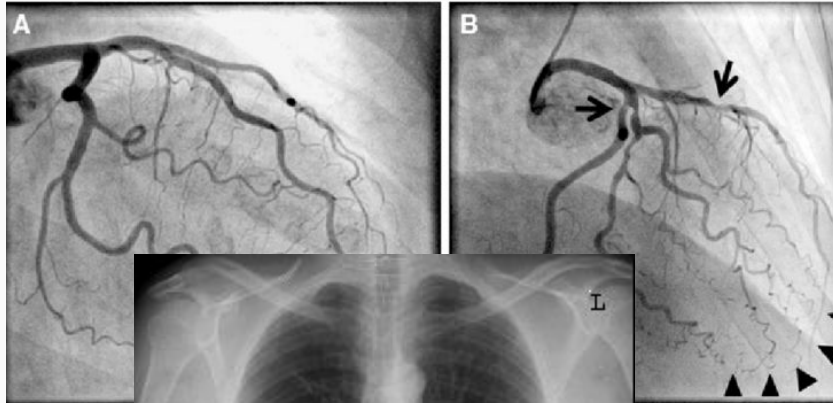
- At the beginning of the course we discussed the traits that make a good doctor and where doctors work
- We also learnt about the **Cardiovascular System**
- Can anyone remember the components of the cardiovascular system?



- Heart
- Arteries
- Veins
- Capillaries
- Blood



We also discussed different investigations

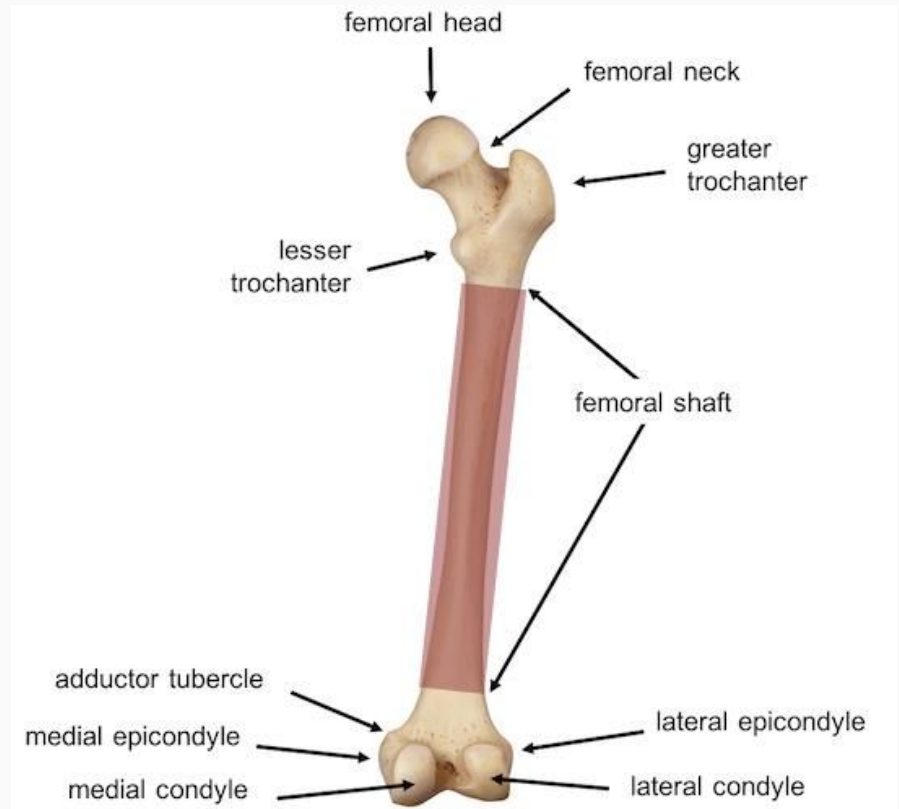
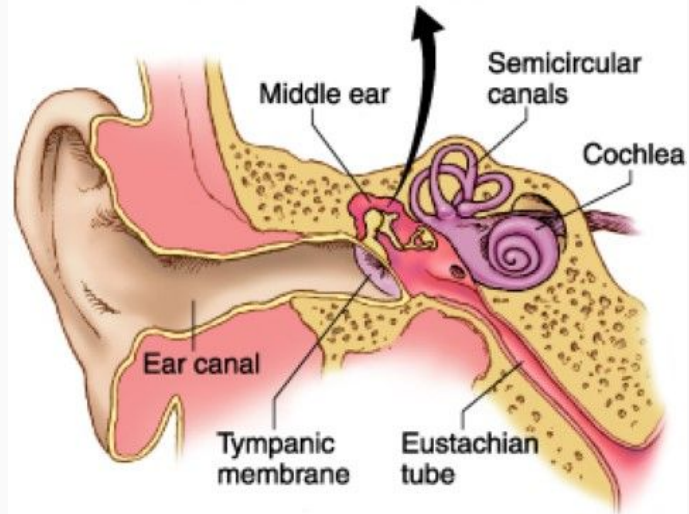
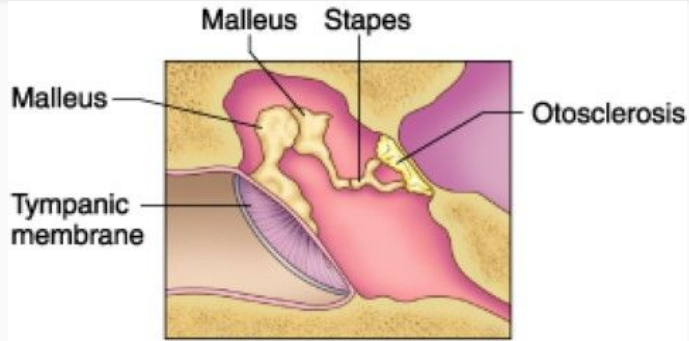


And we listened to our own hearts and took our blood pressure



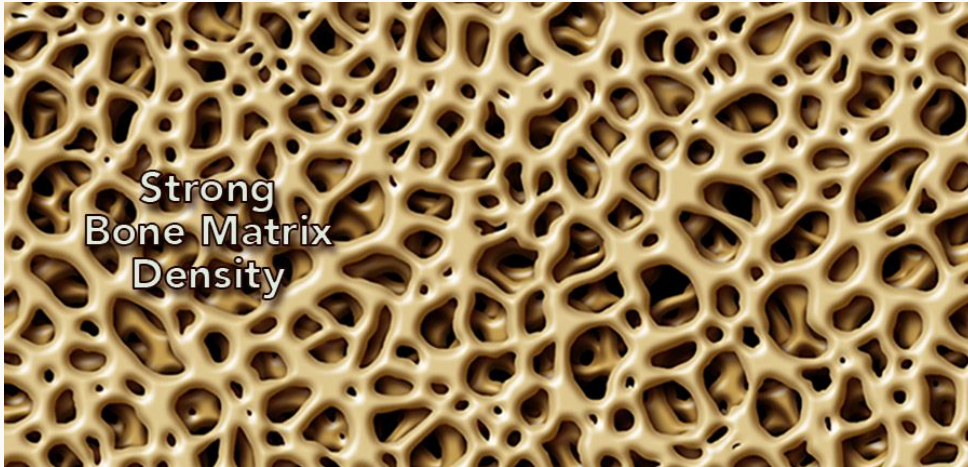
Week 2:

- In our second week we discussed the musculoskeletal system and nervous system
- Can anyone remember where the biggest and smallest bones in the body are?



What is bone made of?

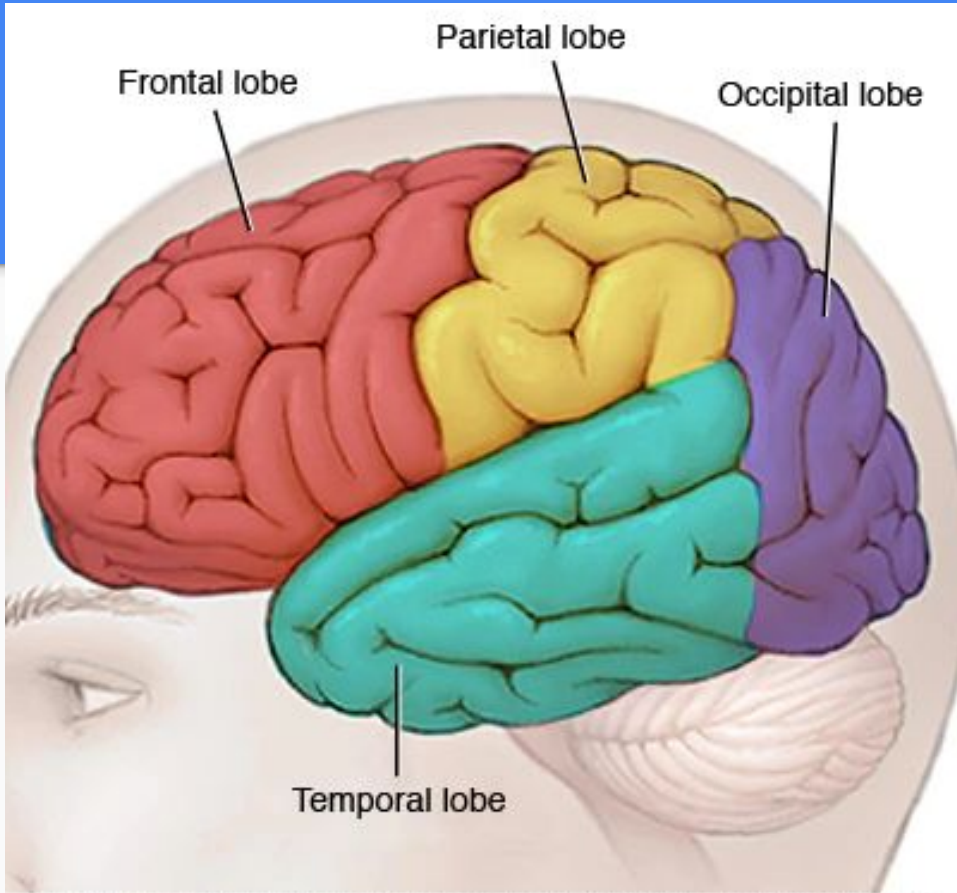
Bone is formed by a matrix of collagen and calcium hydroxyapatite



We also talked about conditions such as osteoarthritis

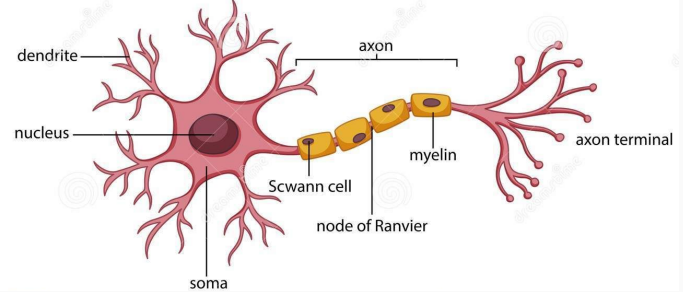


Can anyone remember how many lobes there are in the brain?

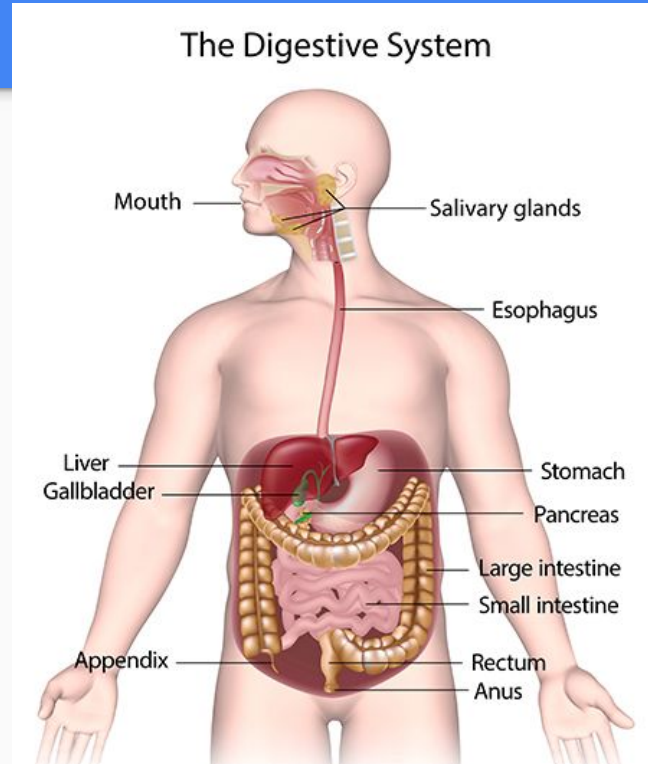


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Neuron Anatomy



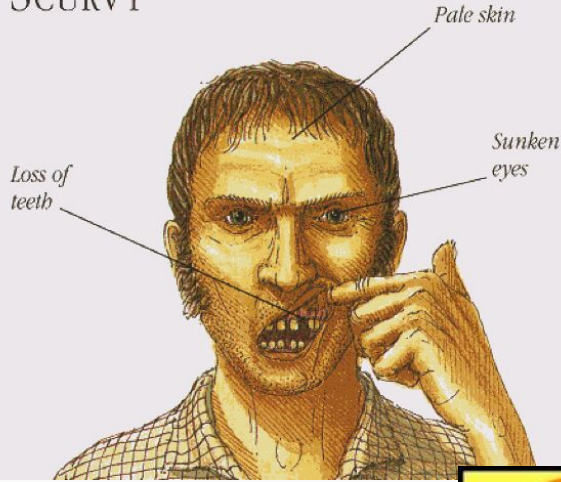
In our third week we talked about the GI system



We talked about several conditions that affect the GI system

Can anyone remember what scurvy is?

SCURVY

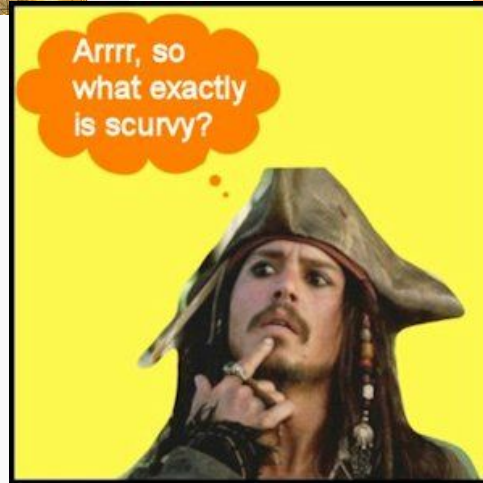


Scurvy

It is a disease that is caused by a deficiency of vitamin C or ascorbic acid in the diet.



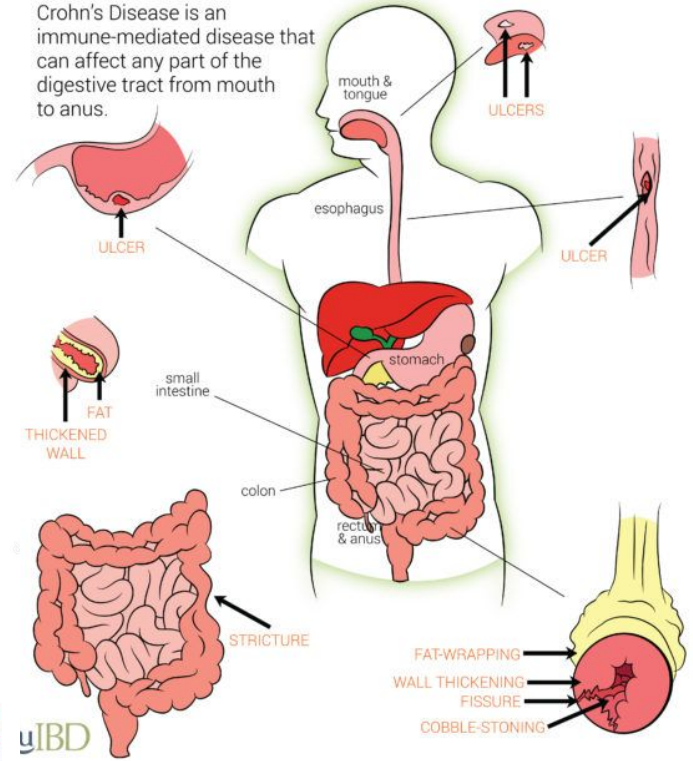
Arrrr, so what exactly is scurvy?



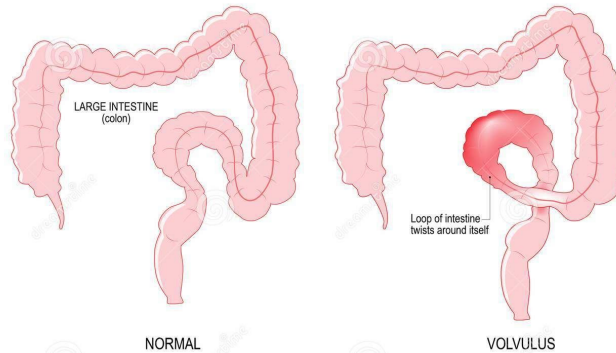


What is Crohn's Disease?

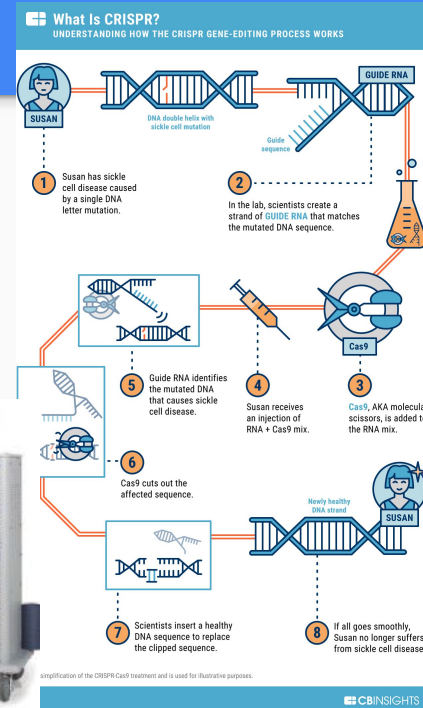
Crohn's Disease is an immune-mediated disease that can affect any part of the digestive tract from mouth to anus.



VOLVULUS

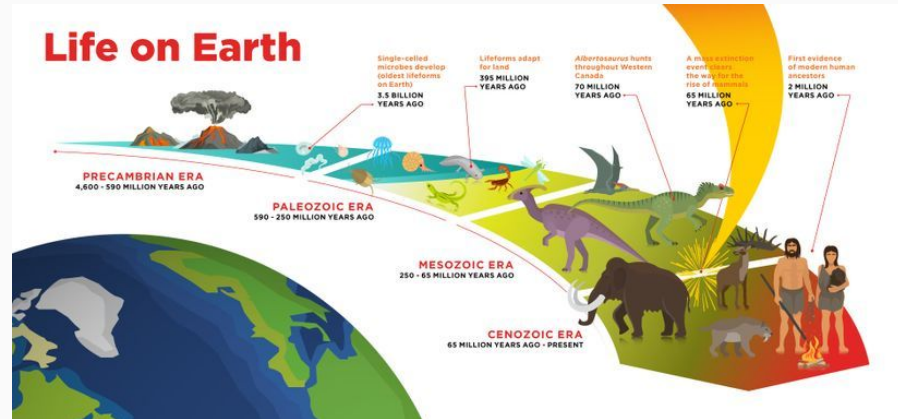


We also talked about what we thought the future of medicine will hold



In our fourth week we discussed biochemistry and genetics

- We started off by talking about the origins of life on earth



We then talked about the structure of DNA,
its function, and the purpose of genetics



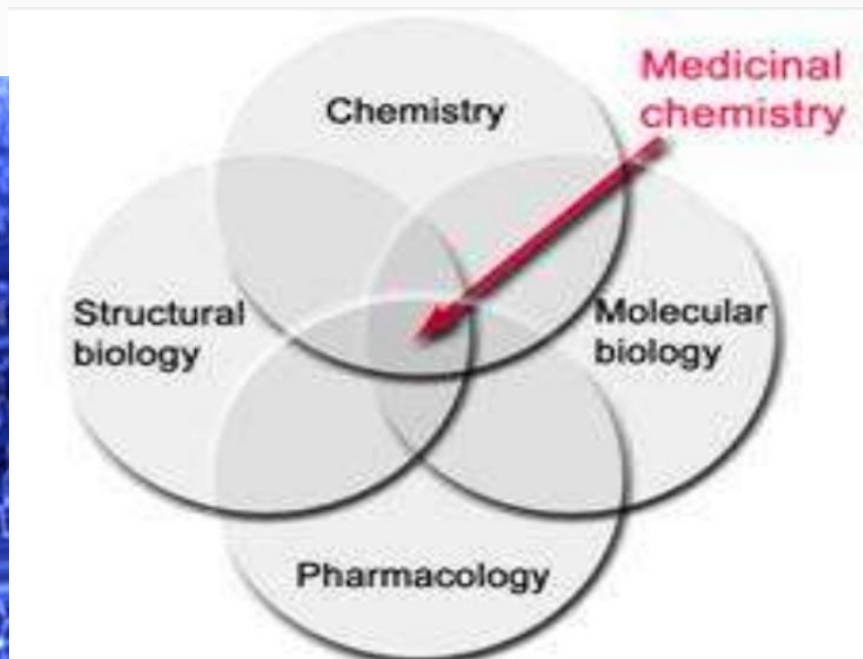
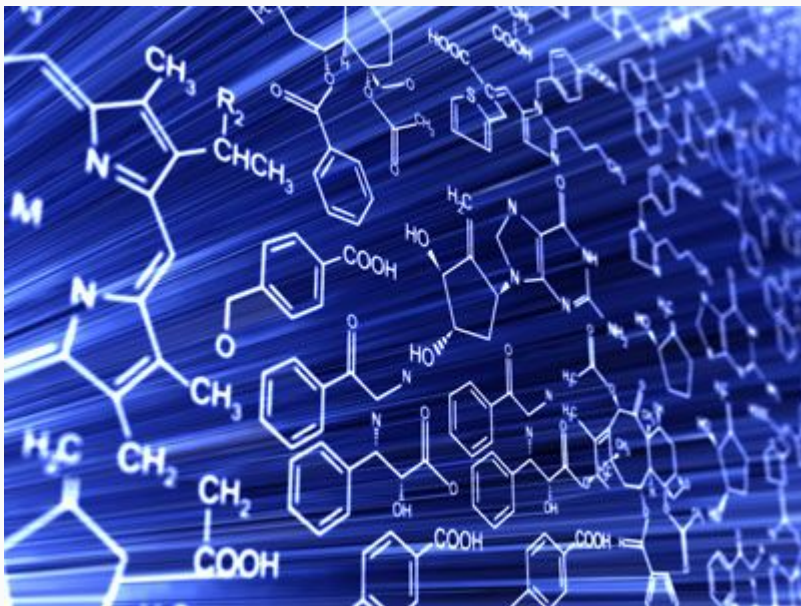
Can anyone remember who this is?



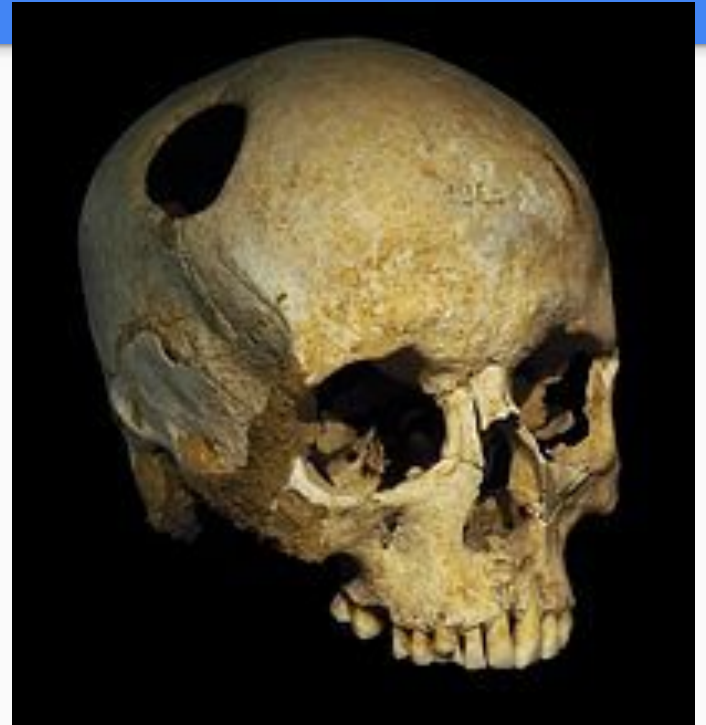
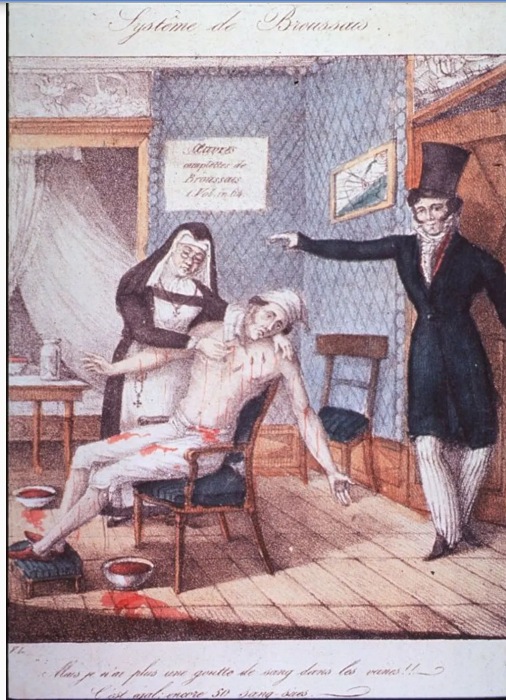
We also conducted an experiment where we extracted DNA from strawberries



In Week 5 we talked about medicinal chemistry

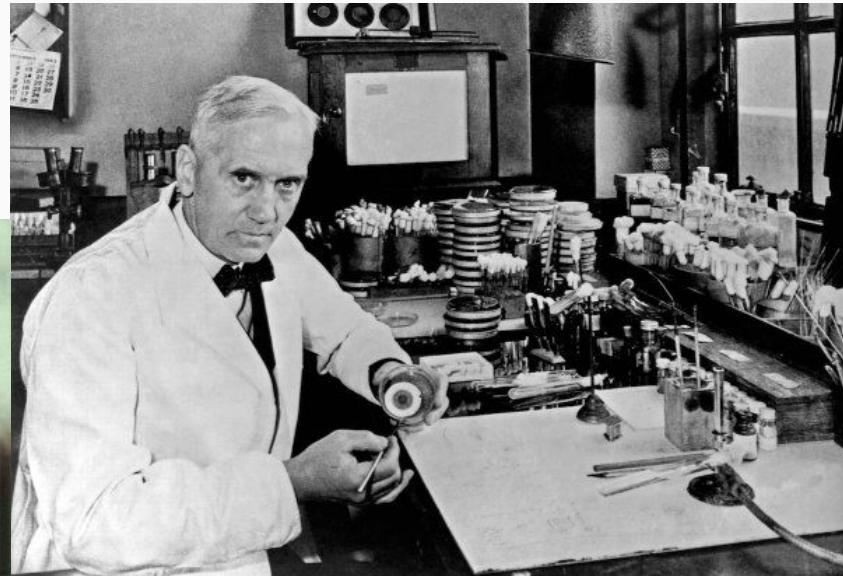
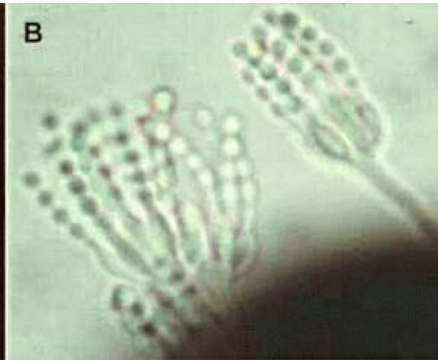
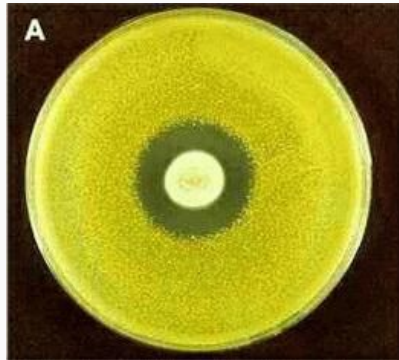


We learnt a bit about the history of medicine,
some good treatments and some not so
good treatments



We talked about the discovery of penicillin

And also about the importance of using antibiotics correctly to prevent resistance



We also learnt about how vaccines work and their discovery

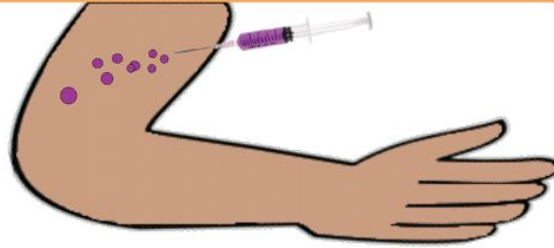
Can anyone remember who this is?



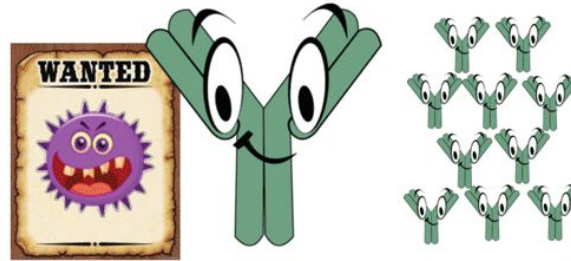
HOW DO VACCINES WORK?

Often a weakened form of the disease is injected into the body.

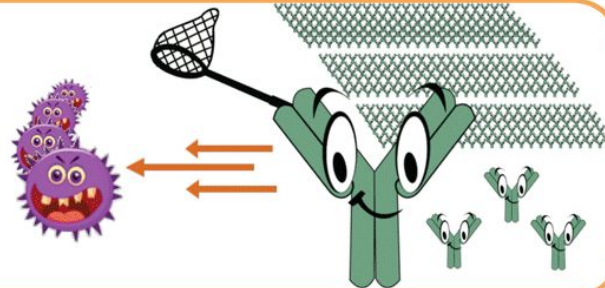
(Some vaccines are not injected but inhaled, such as some types of the flu vaccine)



The body thinks the weak virus is a threat. It builds up lots of antibodies (or teams of ninjas).



If the disease attacks the body, the antibodies are ready to catch and destroy them.



Week 6 - Emergency Department

Common causes of injuries

Accidents

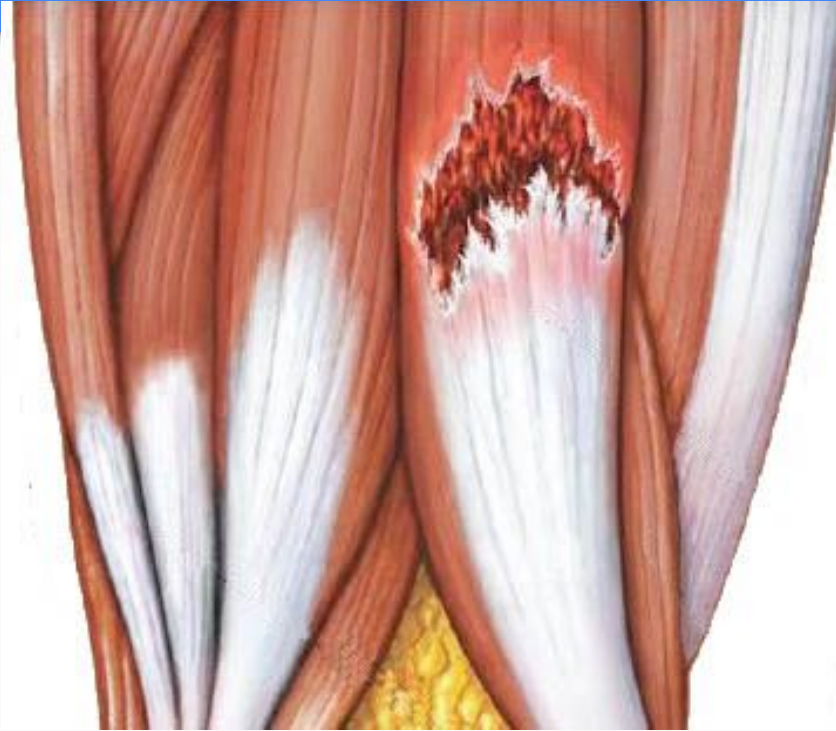
Poor training practices

Lack of conditioning

Insufficient warm up and cool down

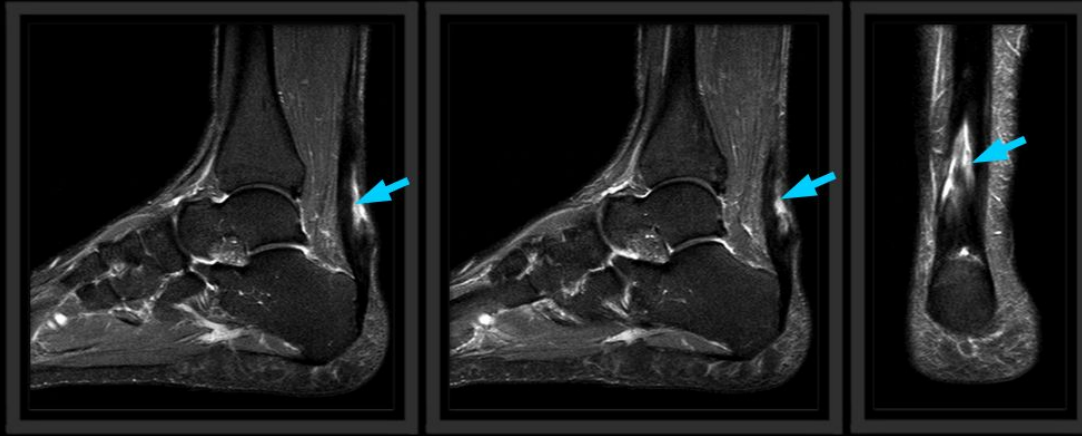
Improper equipment

Can anyone remember the difference between a sprain and a strain?



We learnt about a wide range of injuries

Partial Tears of Achilles Tendon (blue arrow)



Can anyone remember the different types of fractures?





Traverse



Linear



Oblique
non-displaced



Oblique
displaced



Spiral



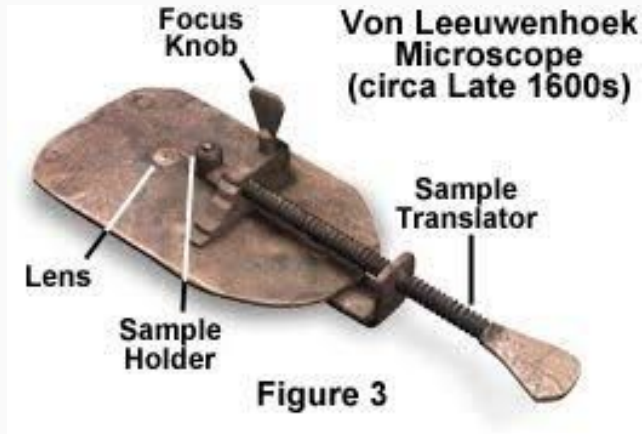
Greenstick



Comminuted

Last week we talked about microbiology

We discussed the history of microbiology





We talked about bacteria, viruses and fungi

We discussed diseases that are caused by them and some of their benefits also

