Medical Imaging

Medical Imaging Devices

Computed Tomography Scamer

3 Xray Scanner (MRJ)

Moone tie Resenance Impedance Scanner (MRJ)

PET Scorner Ultrasound devices

X-Rays

· Short moverength electromagnetic moves

e wovelengten is between 10-110 nm

. Kray photens have a lot of energy

o It is idengerous -> can produce chemical downage on molecules

High freq -> high energy-> heat
Image is produced based on absorption of x-rays
to different tissues I bones of the body.

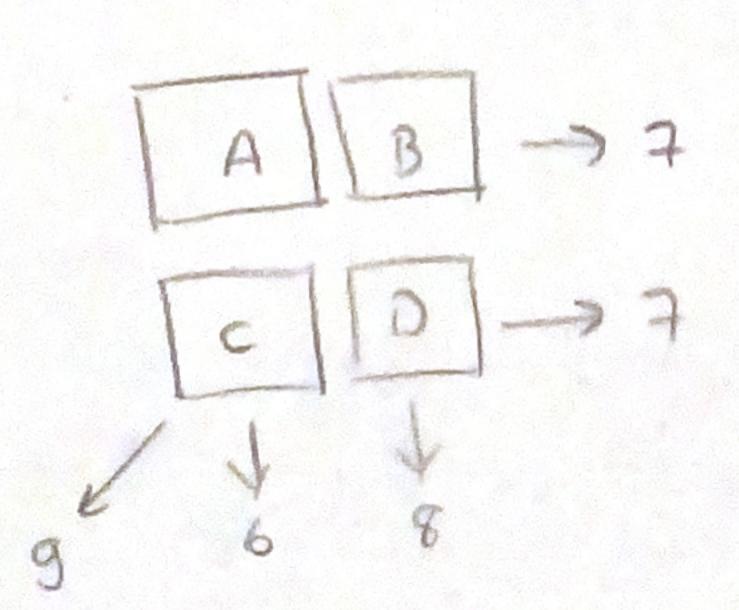
Camputed Tomagraphy

Allows us to see what's inside of human body without dissecting 14.

It allows us to produce 2D cross sections of an object using X-rays.

Thou the image is produced by multiple projections!

We have noticated vertical & diagonal sums of following image



A+B=7 A+C=6

Sums simulate x-ray absorptions of the image.