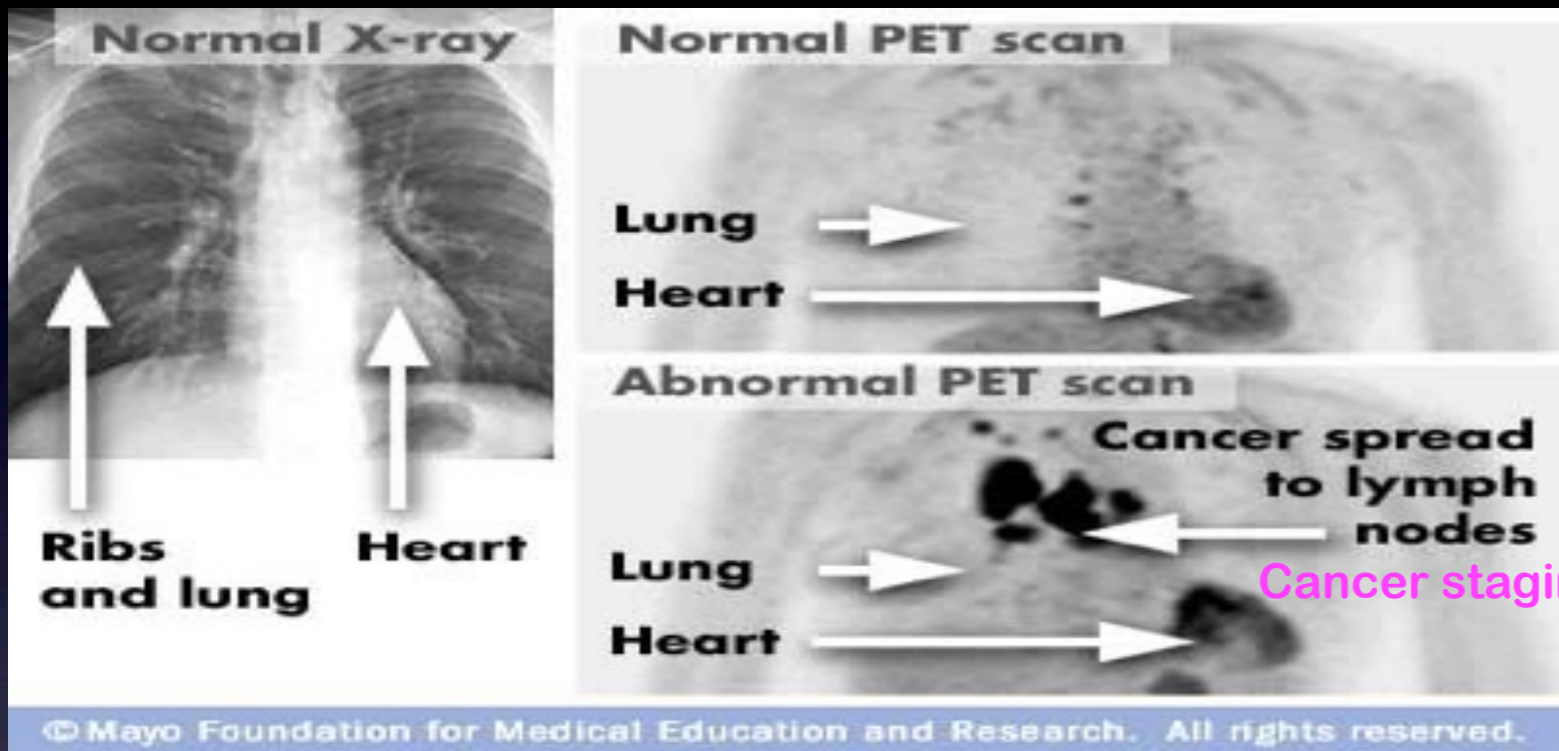


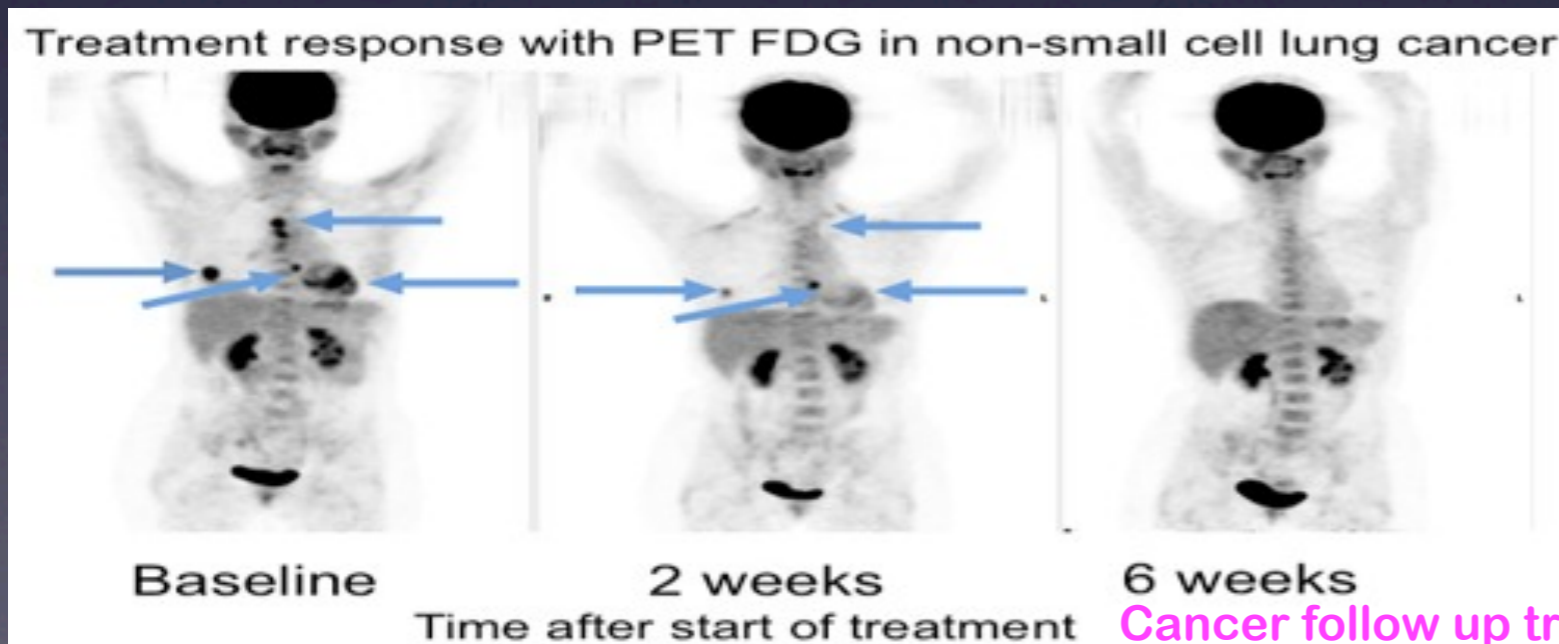
# PET scan use : cancer staging and cancer treatment



Ask Mish



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- PET image has **higher resolution** since the device take 2 gammas in opposite direction in the same time in comparison w/Anger camera: only one gamma, one direction.
- PET drawbacks: need a **cyclotron next to PET scanner** cos the radiotracer, usually must be used immediately. The **cost** is **high**, thousands of dollars/ PET scan.
- use: all for **blood flow&cell uptake** in : brain, myocardium, lung, liver, kidney (investigate **FUNCTION**)
- PET mostly used for **tumor staging & follow up treatment**;
- **80%** of PET scans use **F18**, then **O15, Rb82, N13**