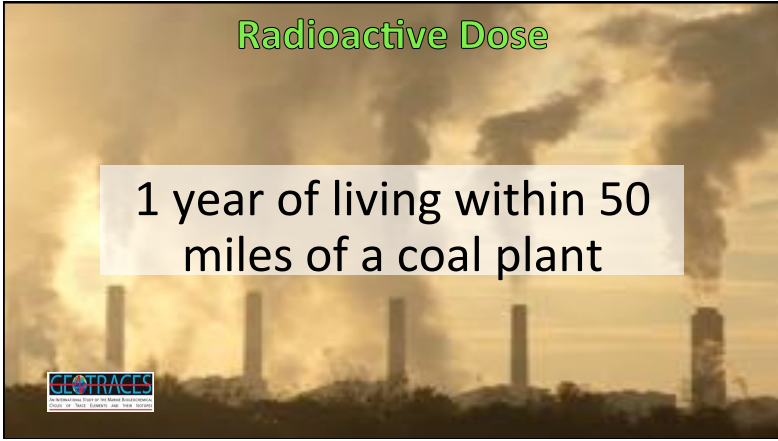
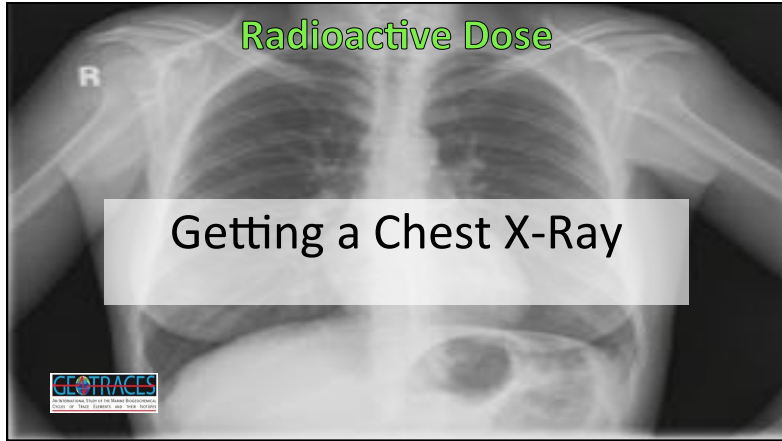
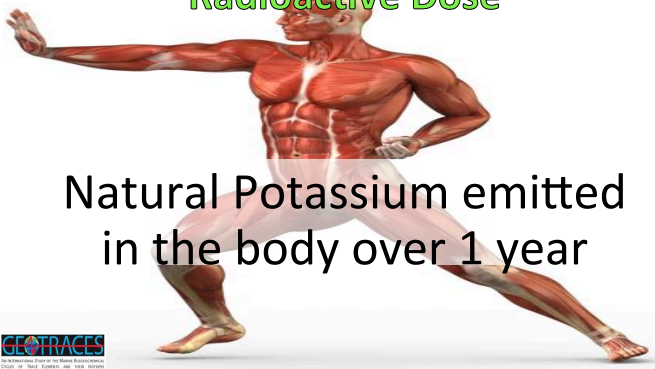



Order the cards on these three pages from lowest to highest doses of radioactivity.  
The answer key is on page three.



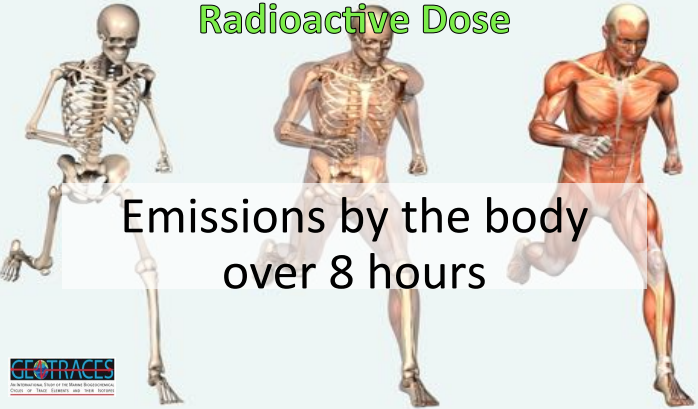
**Radioactive Dose**




Natural Potassium emitted in the body over 1 year



**Radioactive Dose**



Emissions by the body over 8 hours




**Radioactive Dose**



Flight from NYC to LA

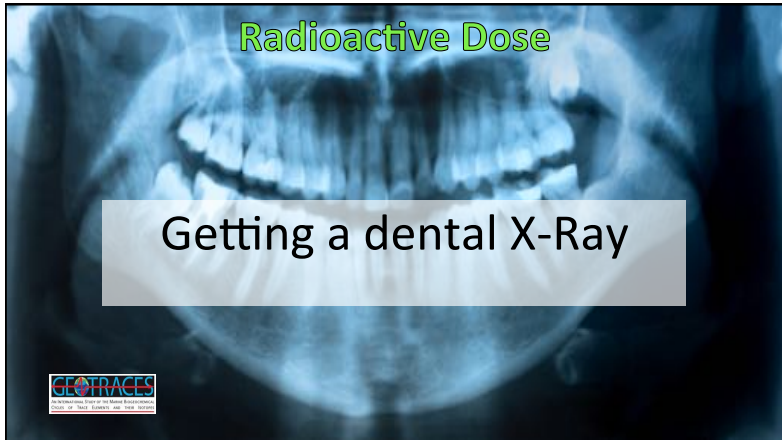
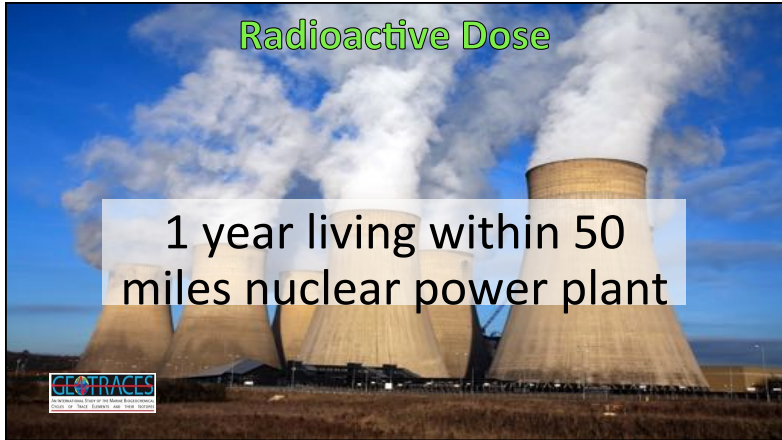


**Radioactive Dose**



Getting arm X-ray





Solution (microsieverts)

1. Going through airport screening (.0111  $\mu\text{Sv}$ )
2. Emissions by the body over 8 hours (0.05  $\mu\text{Sv}$ )
3. 1 year living within 50 miles of nuclear power plant (0.09  $\mu\text{Sv}$ )
4. eating one banana (0.1  $\mu\text{Sv}$ )
5. 1 yer of living within 50 miles of a coal plant (0.3  $\mu\text{Sv}$ )
6. Getting arm X-ray (1  $\mu\text{Sv}$ )
7. getting a dental X-Ray (5  $\mu\text{Sv}$ )
8. getting a chest X-ray (20  $\mu\text{Sv}$ )
9. Flight from NYC to LA (40  $\mu\text{Sv}$ )
10. Natural Potassium in the body emitted over 1 year (390  $\mu\text{Sv}$ )
11. 1 year of background radiation at home (2300  $\mu\text{Sv}$ )

Average dosage for a person in the US is 6200  $\mu\text{Sv}$  per year

**GEOTRACES**  
The National Oceanic and Atmospheric Administration  
Office of Ocean Resources and Assessment