

- Which is the weight in grams of a 5Ci source of W-188?
- A tumor in which a radiotracer has been injected has a specific activity of 10kBq/ml. Assuming the density of the tumor to be $\rho=1\text{g/cm}^3$, find the fraction in mass¹ of radionuclides in the sample in the case it is:
 - Ga-68
 - Y-90
 - C-14

¹ i.e. the ratio of the mass of the radionuclide and the mass of the tumor