

## Nuclear Lunch Questions

March 19, 2014

*Dosimetry for Gadolinium Neutron Capture Therapy*  
S. Enger, *et al.*, Radiation Measurements **59**, 233-240 (2013).

1. What are the benefits/drawbacks (cost, side effects, etc.) of GdNCT over BNCT? **[Sushil]**
2. What is the efficiency of NCT treatments? (How effective are these treatments?) **[Shamim]**
3. How would gamma rays or other sources of contamination be removed from the neutron source? **[Anthony]**
4. How is boron or gadolinium localized to the tumor? In delivering them to the tumor, is the targeting done based upon the assumption that the cancer cells will absorb more of the compound than the neighboring cells? **[Arbin]**
5. Is GdNCT good for surface tumors or deep-lying tumors? What about BNCT? **[Tyler]**
6. How do gamma rays or other sources of ionizing radiation kill the cancer cells? **[Nick]**
7. How are neutron capture agents kept away from surrounding healthy tissue? **[Brian]**
8. What is a double strand break? How do auger electrons produce it? (p.238) **[Bijaya]**