

# Post-Lecture #13: Nuclear Imaging II

After quitting your previous, awful, nuclear medicine technologist job, you decide to take revenge.

1. You have created a device called the *kidnapinator*. The device needs just one more finishing touch, but to finish it, you need to remember **the step-by-step process of creating a PET image, from injection through all the intermediary steps and physics to the picture on the screen**. Please go into excess detail, your *kidnapinator* needs attention to detail...

2. The device seems to work, the time is now! You find your mark, –it’s that fake sick kid from your previous job– it’s time to ‘nap! The child hears your weirdly distinct footsteps, and instinctively blurts out a nuclear medicine question to distract you: ”I bet you don’t know **what the difference between FDG and F-18 is!**” Your mind races, are they right? It can’t be! Before you can hit the button to ‘nap, you need to answer the question for your ego.

3. You finally get another chance to answer the child's question. Your explanation of the many differences between PET and SPECT is:

*No need to restate what you said last post-lecture, add everything new that you can think of from this lecture, from construction, physics, purpose, method, etc.*

The child, upon hearing your magnificent answer, spontaneously explodes (confetti, of course). Well done!