

EXTENSION ACTIVITY

This activity is geared toward Physics 30 students, but anyone can take on the task of learning more about medical isotopes. Some areas to research are suggested, but the opportunity to add to them is yours.

Choose any number of medical isotopes from the following list to do some investigating into their use and functionality. Add others to the list as well.

- Fluorine-18
- Molybdenum-99/Technetium-99
- Cobalt-60
- Iodine-131
- Iodine-125
- Xenon-133
- Iridium-192
- Other-
- Other-

In a chart format, find information on the following for each isotope chosen:

- Characteristics/uses
- Decay series or equation
- Half-life
- Short and long term effects

In addition, answer the following questions:

1. What are the societal impacts of the use of medical isotopes?
2. What are the environmental impacts of the use of medical isotopes?