

Neutron Interactions

75. Neutrons are:

- A. Directly ionizing particles
- B. Indirectly ionizing particles
- C. Electromagnetic radiation
- D. Radiofrequency radiation

76. Most neutron interactions in soft tissue produce:

- A. Recoil protons
- B. High energy electrons
- C. Visible light
- D. Auger electrons

77. The most efficient absorber of neutrons is:

- A. Copper
- B. Aluminum
- C. Borated polyethylene
- D. Lead

78. When exposed to the same neutron beam, which of the following tissues receives a higher absorbed dose:

- A. Muscle
- B. Lung
- C. Fat
- D. Brain

79. Neutron dose estimates have a higher uncertainty because they:

- A. Are difficult to detect
- B. Lose significant energy in air
- C. Do not produce ionization
- D. Produce diverse secondary radiation