

Oxygen -15 Gas Radiation Safety Quiz

Name: _____ Date: _____

Internal Permit or Supervisor/PI _____

- *Each participant can complete this quiz open-style while completing the on-line “Radiation Safety: Oxygen-15 gas” module and while reading the “Gaseous O-15 Staff SOP”*
- *Each completed quiz must be returned directly to charis.johnsonantaran@lawsonresearch.com to be marked before receiving confirmation from the Lawson RSO that all O-15 gas radiation safety pre-requisites have been completed*

Section 1: On-line “Radiation Safety: Oxygen-15 gas” Module- Quiz Questions

1. Only staff with current radiation safety training certificates can work with gaseous Oxygen-15.
Circle True or False
2. The pre-annihilation energy of an Oxygen-15 positron is the same as for all positron-emitting isotopes.
Circle True or False
3. The post-annihilation energy resulting from an Oxygen-15 emitted positron colliding with surrounding electrons is the same for all positron emitting isotopes.
Circle True or False
4. The half-life of Oxygen-15 is about 2 minutes.
Circle True or False
5. Unexpected Oxygen-15 gas leaks can result in unnecessary lung radiation exposure to staff.
Circle True or False

Section 2: Gaseous O-15 Staff SOP - Quiz Questions

1. A survey meter is required in the PET/MRI control room pre O-15 delivery to confirm that the PET/MRI has changed from positive to negative room pressure after pressing the exhaust fan’s “Manual Start” red button
Circle True or False
2. Venting the exhaust tank in the PET/MRI equipment room pre O-15 delivery will allow for an empty tank to capture all exhaled O-15 gas during its administration in the PET/MRI suite.
Circle True or False
3. Recording the PAD reading post O-15 gas administration will allow for recording of the level of residual O-15 radiation in the PET/MRI suite that did not get captured in the PET/MRI equipment room exhaust tank.
Circle True or False
4. All suspected accidental staff inhalation of O-15 gas equal to or greater than 50 μ Sv is required to be reported to the CNSC.
Circle True or False
5. The use of a survey meter is enough to establish the amount of radiation lung exposure received by staff accidentally during an unusual occurrence.
Circle True or False