Hearing Protection



Safety Measures for Radiologic Technologists in the MR Environment

- Wear Hearing Protection:
 All individuals in Zone 4 during active scanning must wear one or more forms of hearing protection.
- Choose the Right Gear:
 Use MR-safe hearing protection for comfort and to reduce noise below 99 dB(A).
- Ensure Proper Fit: Follow the manufacturer's instructions for wearing hearing protection devices.
- Inform Patients:
 Explain MR noise
 levels and the
 importance of
 hearing protection.
- Know the Risks:
 Train staff on safe practices in high-noise environments and the importance of hearing protection.



Key Facts

- MR Equipment Noise Levels: Can reach 130 dB as loud as a jet engine.1
- Safe Listening Levels: ≤80 dB for adults, ≤75 dB for children.²
- Protected Hearing: Effective hearing protection can reduce active scanning noise by up to 28-30 dB(A).¹
- Unprotected Hearing: Hearing damage can start at 85 dB. Noise levels >120 dB can cause immediate hearing loss.³



