

Name of Policy: <u>MRI quench</u> Policy Number: 3364-135-141 Department: Radiology Approving Officer: Chief Operating Officer - UTMC Responsible Agent: Chairman & Professor, Radiology Scope: Radiology	 Effective Date: 9/1/2023 Initial Effective Date: 9/1/2014
<input type="checkbox"/> New policy proposal <input type="checkbox"/> Minor/technical revision of existing policy <input type="checkbox"/> Major revision of existing policy <input checked="" type="checkbox"/> Reaffirmation of existing policy	

(A) Policy Statement

It is the policy of the MRI Department to provide guidelines in the event of the magnet quench.

(B) Purpose of Policy

To provide a safe environment to the patients and staff.

(C) Procedure

1. Spontaneous Quench: In the event the magnet experiences a spontaneous quench due to malfunction the steps below should be followed:
 - (a)
 - (i) Stop scanning
 - (ii) Immediately remove anyone from the room and assure their safety by vacating the area
 - (iii) Close the door to the magnet room
 - (iiii) Alert maintenance
 - (iv) Alert manufacturer
 - (v) Leave door closed until it is deemed safe by appropriate personnel
 - (vi) After area is secured, file reports with Safety Net and MRI Safety Committee.
 - (b) If the door closes due to pressure from the quench while someone is in the room, the glass window must be broken to release the pressure. The glass can be broken by standing back and throwing the MRI safe copper hammer or brick, both of which are available on the window sill at each scanner

2. Scheduled Quench: In the event a magnet must be quenched for repair or replacement, the steps below should be followed:
 - (a)
 - (i) Have manufacturer and maintenance on site.
 - (ii) Have maintenance ensure the exhaust vent has been checked and is clear and vented properly.
 - (iii) Clear area outside around the vent and station security and maintenance in the area.
 - (iiii) Secure area from all non-MRI staff or others not involved with the quench procedure.
 - (iv) Close the door to the magnet room.

