Name of Policy:	Quality Control of MRI Equipment	~
Policy Number:	3364-135-145	THE UNIVERSITY OF TOLEDO MEDICAL CENTER
Department:	Radiology	
Approving Officer:	Chief Operating Officer - UTMC	
Responsible Agent:	Chairman & Professor, Radiology	Effective Date: 12/1/2021
Scope:	Radiology	Initial Effective Date: 9/12/2014
New policy proposal Major revision of existing policy X Reaffirmation of existing policy		

(A) Policy Statement

Magnetic resonance imaging (MRI) scanners shall have routine quality control (QC) performed to include daily and/or weekly MRI technologist QC, an annual evaluation by a certified medical physicist, and routine preventative maintenance by a service provider.

(B) Purpose of Policy

To ensure the equipment is operating in a safe manner for both the patient and operator(s) and is producing high quality images.

(C) Procedure

- 1) QC by the MRI technologist will be performed in accordance with American College of Radiology (ACR) MRI Quality Control Manual.
- 2) An annual evaluation by a certified medical physicist will be performed in accordance with the ACR MRI Quality Control Manual and Joint Commission requirements. A report will be prepared to summarize the results of the evaluation and any corrective action needed. The evaluation will include at a minimum the following test:
 - a. Image uniformity for all clinically used volume RF coils
 - b. Signal-to-noise for all clinically used RF coils
 - c. Slice thickness accuracy
 - d. Slice positioning and alignment accuracy
 - e. High contrast resolution
 - f. Low contrast resolution
 - g. Geometric accuracy
 - h. Magnetic field homogeneity
 - i. Artifact evaluation
- 3) Regular preventative maintenance will be performed by Biomedical Engineering or a trained service provider.
- 4) Documentation of all QC activities will be maintained.

Approved by:	Review/Revision Date:	
s/ Haitham Elsamaloty, MD Chairman & Professor, Radiology	12/20/2021 Date	10/12/2015 10/1/2018 12/1/2021
Christine Stesney-Ridenour, FACHE Chief Operating Officer - UTMC	01/04/2022 Date	
		Next Review Date: 12/1/2024