


Name of Policy:	Imaging Protocols for Simulation and Treatment	 HEALTH <hr/> THE UNIVERSITY OF TOLEDO
Policy Number:	3364-134-111	
Department:	Radiation Oncology	
Approving Officer:	Chief Executive Officer - UTMC Professor & Chairman, Radiation Oncology	
Responsible Agent:	Technical Manager, Radiation Oncology	
Scope:	Radiation Oncology	
		Effective Date: 12/1/2017
		Initial Effective Date: 12/1/2017
<input checked="" type="checkbox"/> New policy proposal <input type="checkbox"/> Minor/technical revision of existing policy <input type="checkbox"/> Major revision of existing policy <input type="checkbox"/> Reaffirmation of existing policy		

(A) Policy Statement

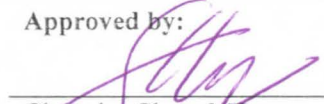
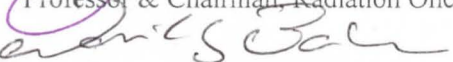
Utilization of Imaging Protocols

(B) Purpose of Policy

To reduce unnecessary radiation dose to patients during simulation and treatment

(C) Procedure

- 1) Treatment planning CT
 - a) A series of protocols have been established on the simulation CT to minimize the dose required to obtain images.
 - b) The region to be scanned is to be limited to those areas required for planning, including the full extent of those OARs determined to be parallel in dose response (e.g. lung).
 - c) For those patients requiring 4D scans,
 - i) the scan shall be limited to those areas required to perform planning on the MeanIP produced from the 4D; and,
 - ii) a determination of what forms of motion management the patient will be best able to accommodate shall be made, as best as possible, before the simulation.
 - d) Where possible and reasonable, existing diagnostic scans are to be used for treatment planning purposes.
- 2) IGRT
 - a) A series of protocols have been established on the Linac treatment console based on body site to minimize the dose required to obtain usable images.
 - b) Half-arc scans are to be used when it would not compromise alignment integrity.
 - c) Due to the significantly lower dose associated with kV imaging, CBCT IGRT is the preferred modality, excepting cases where treatment design eliminates low dose to structures not in the treatment fields.
 - d) During weekly physics chart review, the total number of imaging procedures shall be evaluated, and anomalies investigated.

Approved by:  Changhu Chen, MD Professor & Chairman, Radiation Oncology	11/28/2017 Date	Review/Revision Date: 12/1/2017
 Daniel Barbee, RN, BSN, MBA Chief Executive Officer - UTMC	8 Dec 2017 Date	
Review/Revision Completed By: Michelle Giovanoli		Next Review Date: 12/1/2020
Policies Superseded by This Policy: N/A		