


<b>Name of Policy:</b> <u>Source to Skin Distances ( SSD)</u> <b>Policy Number:</b> 3364-134-62 <b>Department:</b> Radiation Oncology <b>Approving Officer:</b> Chief Executive Officer - UTMC Professor & Chairman, Radiation Oncology <b>Responsible Agent:</b> Technical Manager, Radiation Oncology <b>Scope:</b> Radiation Oncology	
	<b>Effective Date:</b> 7/1/2020 Initial Effective Date: 8/1/2007
<input type="checkbox"/> New policy proposal <input type="checkbox"/> Major revision of existing policy	
<input type="checkbox"/> Minor/technical revision of existing policy <input checked="" type="checkbox"/> Reaffirmation of existing policy	

**(A) Policy Statement**

To ensure that the radiologic depth of treatment is evaluated on a continuing basis during a patient's treatment.

**(B) Purpose of Policy**

To ensure that the dose delivered to the patient is delivered based on up-to-date evaluations of the patient's surface, and calculated dose for that treatment.

**(C) Procedure**

1. For patients who do not have CBCT order for their treatment, Therapists on a weekly basis, will check, and record in the Journal Folder of ARIA, the SSD's for each measurable port using the optical distance indicator (ODI) light. If the SSD's are out of range, they will need to be rechecked the next day. If the SSD's are out of range the second day, before treatment, the physics staff will be notified, and they will determine if it requires recalculation using the tolerances in part 3 as a guide.
2. For patients receiving CBCT guidance, re-computation of dose should be considered if the average radiological path length to target's isocenter has changed significantly, as determined by physician and a physicist during imaging, using the tolerances in part 3 as a guide.
3. The range for each energy, to be within tolerance, is as listed:
  - All energies up to 10MV: the recorded SSD or radiologic path length will be within 1.0 cm tolerance.
  - All energies above 10MV: the recorded SSD or radiologic path length will be within 1.5 cm tolerance.

<b>Approved by:</b>  _____ /s/ Changhu Chen, MD Professor & Chairman, Radiation Oncology Date	<b>Review/Revision Date:</b> 11/2007 1/2008 3/10/2011 12/1/2014 12/1/2017 7/1/2020
_____ /s/ Richard P. Swaine, CPA Chief Executive Officer - UTMC Date	
<i>Review/Revision Completed By:</i> Michelle Giovanoli	
<b>Next Review Date:</b> 7/1/2023	
<b>Policies Superseded by This Policy:</b> 38-111	