

3DCRT

Plan Scoring

PTV_EVAL and Dose Heterogeneity Scoring	
No Variation	Major Variation
Minimum Dose to PTV_EVAL is at, or above 34.6 Gy, <i>and</i>	Failure to achieve <i>No Variation</i> Any critical normal tissue DVH limit exceeding 5% of the specified value.
Dose heterogeneity $\leq 20\%$. ($\text{Maxdose}_{\text{PTV}}/38.5\text{Gy} \leq 1.20$)	

Organs at Risk (OAR)

The following are normal tissue limits specified for this study. Any critical normal tissue DVH limit exceeding 5% of the specified value will result in a major variation.

Normal organ	
Ipsi-lateral Lung	< 15% of the lung can receive 30% of the prescribed dose.
Contra-lateral Lung	< 15% of the lung can receive 5% of the prescribed dose.
Ipsi-lateral Breast	< 60% of the normal breast to receive > 19.2 Gy and < 35% of the normal breast to receive > 38.5 Gy
Contra-lateral Breast	< 3% of the prescribed dose to any point
Heart (left sided lesions)	< 40% of the heart should receive 5% of the prescribed dose
Heart (right sided lesions)	< 5% of the heart should receive 5% of the prescribed dose.
Thyroid	Maximum point dose of 3% of the prescribed dose

Mammosite HDR

Plan Scoring

PTV_EVAL Scoring	
No Variation	Major Variation
90 % of PTV_EVAL is at, or above 30.6 Gy, and	Failure to achieve <i>No Variation</i> Any critical normal tissue DVH limit exceeding 5% of the specified value.
Volume of breast tissue receiving > 51 Gy is \leq 50 cc and Volume of breast tissue receiving > 68 Gy is \leq 10 cc	

Organs at Risk (OAR)

The following are normal tissue limits specified for this study. Any critical normal tissue DVH limit exceeding 5% of the specified value will result in a major variation.

Normal organ	
Ipsi-lateral Breast	< 60% of the normal breast to receive > 17 Gy

Multi-Catheter HDR

Plan Scoring

PTV_EVAL Scoring	
No Variation	Major Variation
90 % of PTV_EVAL is at, or above 30.6 Gy, and	Failure to achieve <i>No Variation</i> Any critical normal tissue DVH limit exceeding 5% of the specified value.
Volume of breast tissue receiving > 51 Gy is ≤ 70 cc and Volume of breast tissue receiving > 68 Gy is ≤ 20 cc and $1-V_{150}/V_{100} \geq 0.75$	

Organs at Risk (OAR)

The following are normal tissue limits specified for this study. Any critical normal tissue DVH limit exceeding 5% of the specified value will result in a major variation.

Ipsi-lateral Breast	< 60% of the normal breast to receive > 17 Gy
---------------------	---