

Supplemental file

S-1 Comparison of dosimetric parameters of AAA_D_{95%}, AXB_D_{95%}, AXB_D_{50%}, and AXB_D_{100%-air/PTV} for clinical cases of HNC.

		air / PTV (%)	AAA	AXB		
			D _{95%}	D _{95%}	D _{50%}	D _{100%-air/PTV}
Whole neck	5.61	D ₉₈ (%)	98.53	98.07 (-0.46%)	94.49 (-4.04%)	97.85 (-0.68%)
		D ₉₅ (%)	100.00	100.00 (0.00%)	96.35 (-3.65%)	99.78 (-0.22%)
		D ₅₀ (%)	103.02	103.79 (+0.77%)	100.00 (-3.02%)	103.56 (-0.54%)
		D ₂ (%)	106.61	107.58 (+0.97%)	103.65 (-2.96%)	107.34 (+0.73%)
Larynx	17.02	D ₉₈ (%)	99.00	93.43 (-5.57%)	88.53 (-10.47%)	89.77 (-9.23%)
		D ₉₅ (%)	100.00	100.00 (0.00%)	94.60 (-5.40%)	96.08 (-3.92%)
		D ₅₀ (%)	101.70	105.53 (+3.83%)	100.00 (-1.70%)	101.40 (-0.30%)
		D ₂ (%)	103.19	108.66 (+5.47%)	102.97 (-0.22%)	104.41 (+1.22%)
Nasopharynx	28.19	D ₉₈ (%)	98.68	96.61 (-2.07%)	89.83 (-8.85%)	90.96 (-7.72%)
		D ₉₅ (%)	100.00	100.00 (0.00%)	92.97 (-7.03%)	94.15 (-5.85%)
		D ₅₀ (%)	101.96	107.56 (+5.60%)	100.00 (-1.96%)	101.27 (-0.69%)

		112.07	104.20	105.52
D ₂ (%)	104.65	(+7.42%)	(-0.45%)	(+0.87%)

In the same MLC motions, dosimetric parameters (D_{98%}, D_{95%}, D_{50%}, D_{2%}) of each dose prescription (D_{95%}, D_{50%}, D_{100%-air/PTV}) using AXB were compared to the D_{95%} prescription using AAA in three head and neck (HNC) volumetric modulated arc therapy (VMAT) clinical cases with different air/PTV.