

## Supplementary Material

Supplementary Data 1. Unsorted PQM Score Data

	FiF-ESTRO	IMRT-ESTRO	VMAT-ESTRO	FiF-RTOG	IMRT-RTOG	VMAT-RTOG	FiF-TANG	IMRT-TANG	VMAT-TANG
PQM Parameters	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
Total Score for PTV (Max 40)	22.90 (4.63)	32.60 (1.08)	28.83 (2.41)	13.03 (8.62)	31.46 (1.37)	25.96 (2.81)	18.13 (4.85)	31.86 (1.17)	27.00 (2.73)
Total Score for Left Lung (Max 20)	16.40 (2.17)	13.60 (2.50)	8.00 (3.02)	10.70 (2.75)	5.90 (1.79)	3.70 (1.70)	17.50 (1.90)	10.90 (2.64)	7.90 (2.92)
Total Score for Heart (Max 30)	23.70 (2.00)	22.70 (2.79)	18.20 (4.24)	14.10 (2.56)	17.30 (2.67)	14.70 (5.44)	22.70 (3.62)	20.10 (3.45)	17.30 (3.43)
Total Score for Right Breast (Max 10)	9.80 (0.48)	6.70 (1.55)	3.10 (0.91)	8.25 (1.77)	4.15 (1.62)	2.65 (0.88)	10.00 (0.00)	6.75 (1.48)	3.85 (1.65)
Combined Total Score (Max 100)	72.80 (5.27)	75.60 (5.89)	58.13 (7.57)	46.08 (12.80)	58.81 (4.10)	47.01 (7.25)	68.33 (6.52)	69.61 (5.54)	56.05 (5.43)

Supplementary Data 2. PQM Score Data sorted by Planning Technique

PQM Parameters	FiF				IMRT				VMAT			
	RTOG vs ESTRO	TANG vs ESTRO	TANG vs RTOG	Order	RTOG vs ESTRO	TANG vs ESTRO	TANG vs RTOG	Order	RTOG vs ESTRO	TANG vs ESTRO	TANG vs RTOG	Order
Total Score for PTV (Max 40)	< 0.001	0.001	0.001	ESTRO > TANG > RTOG	0.423 (NS)	0.603 (NS)	0.777 (NS)	ESTRO = TANG = RTOG	0.046 (NS)	0.197 (NS)	0.464 (NS)	ESTRO = TANG = RTOG
Total Score for Left Lung (Max 20)	< 0.001	0.202 (NS)	0.001	ESTRO = TANG > RTOG	< 0.001	0.003	< 0.001	ESTRO > TANG > RTOG	< 0.001	0.907 (NS)	< 0.001	ESTRO = TANG > RTOG
Total Score for Heart (Max 30)	< 0.001	0.302 (NS)	< 0.001	ESTRO = TANG > RTOG	< 0.001	0.009 (NS)	0.005	ESTRO = TANG > RTOG	0.001	0.353 (NS)	0.009 (NS)	ESTRO > RTOG, TANG = RTOG/ESTRO
Total Score for Right Breast (Max 10)	0.001	0.638 (NS)	< 0.001	ESTRO = TANG > RTOG	< 0.001	0.906 (NS)	< 0.001	ESTRO = TANG > RTOG	0.292 (NS)	0.082 (NS)	0.006 (NS)	ESTRO = TANG = RTOG
Combined Total Score (Max 100)	< 0.001	0.099 (NS)	< 0.001	ESTRO = TANG > RTOG	< 0.001	0.029 (NS)	< 0.001	ESTRO = TANG > RTOG	< 0.001	0.438 (NS)	0.001	ESTRO = TANG > RTOG