

# Supplementary Material

## Artificial examples and results for non-subcapsular tumors

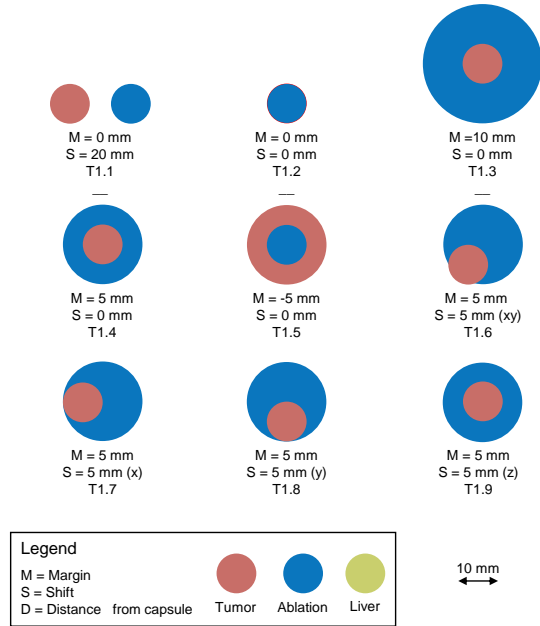


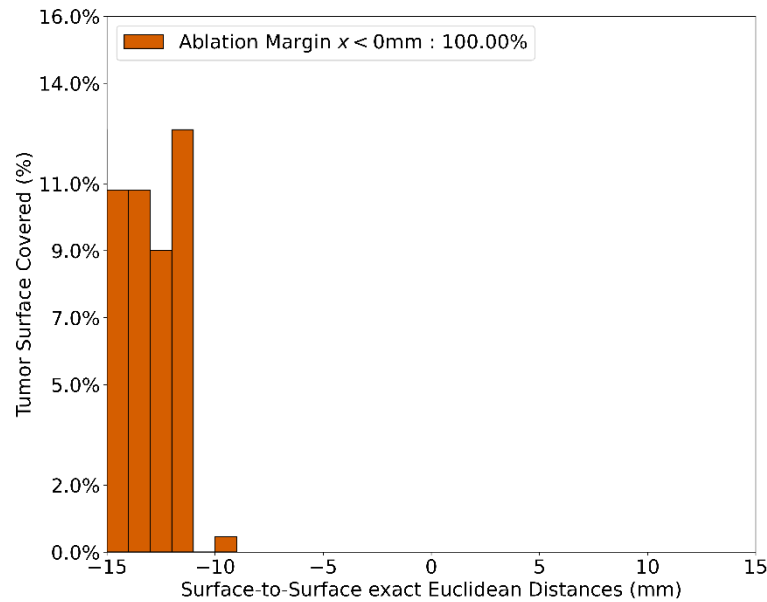
Figure 1: Artificial examples of non-subcapsular tumors

## Numerical Results

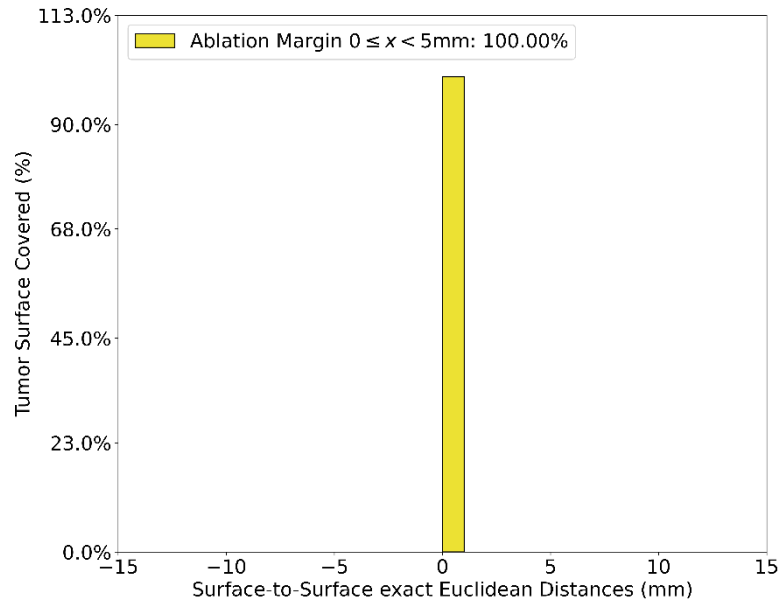
Case	Euclidean distance (mm)					Percentage of tumor surface covered at x surface distances (mm)		
	Min	25 <sup>th</sup> percentile	Median	75 <sup>th</sup> percentile	Max	$x < 0$	$x \geq 0 < 5$	$x \geq 5$
T1.1	-20.00	-17.58	-15.65	-13.64	-10.00	100.00%	0.00%	0.00%
T1.2	0.00	0.00	0.00	0.00	0.00	0.00%	100.00%	0.00%
T1.3	9.06	9.64	9.70	9.95	10.00	0.00%	0.00%	100.00%
T1.4	4.12	4.58	4.69	5.00	5.00	0.00%	67.57%	32.43%
T1.5	-5.20	-5.10	-4.90	-4.58	-4.12	100.00%	0.00%	0.00%
T1.6	-2.24	-1.00	1.00	3.00	7.00	27.93%	62.16%	9.91%
T1.7	0.00	1.00	2.83	4.36	9.06	0.00%	79.73%	20.27%
T1.8	0.00	1.00	2.83	4.36	9.06	0.00%	79.73%	20.27%
T1.9	0.00	1.00	2.83	4.36	9.06	0.00%	79.73%	20.27%

Graphical results

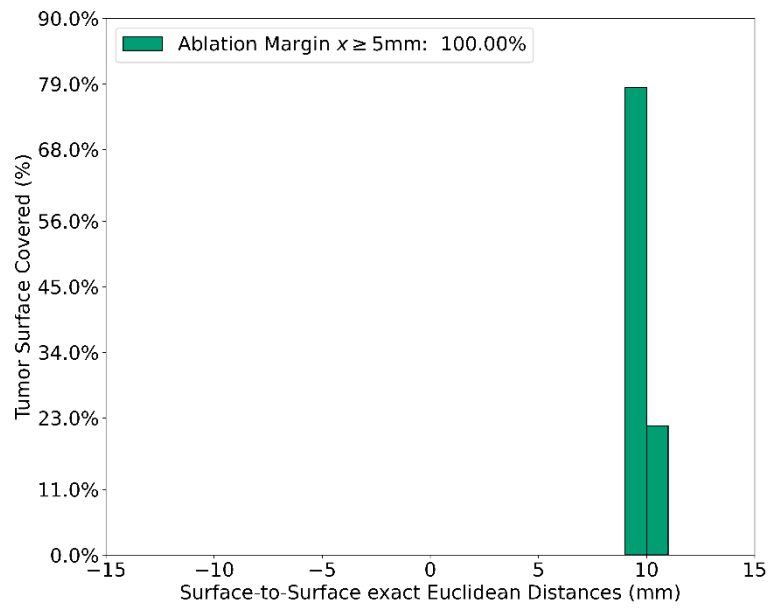
T1.1



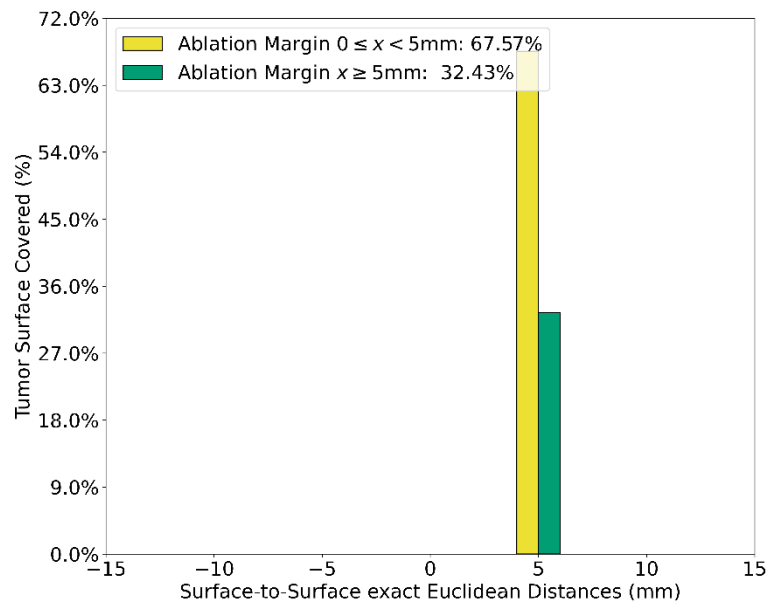
T1.2



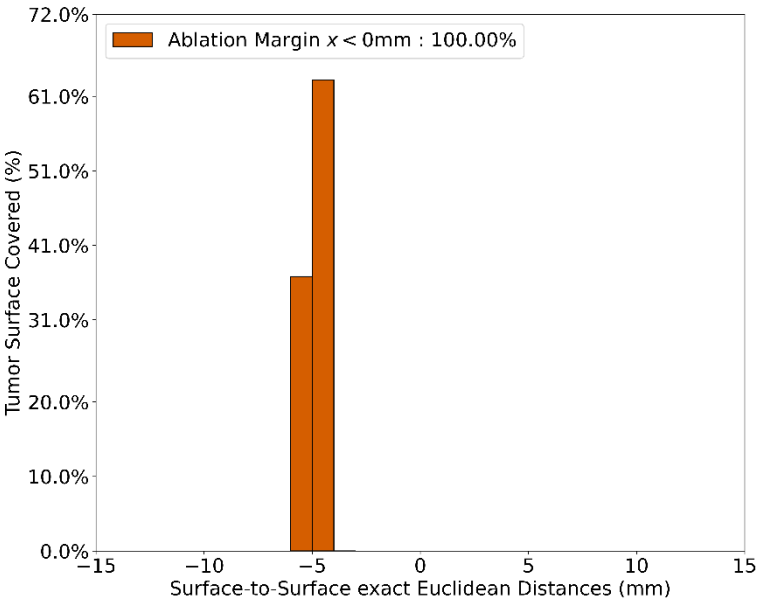
T1.3



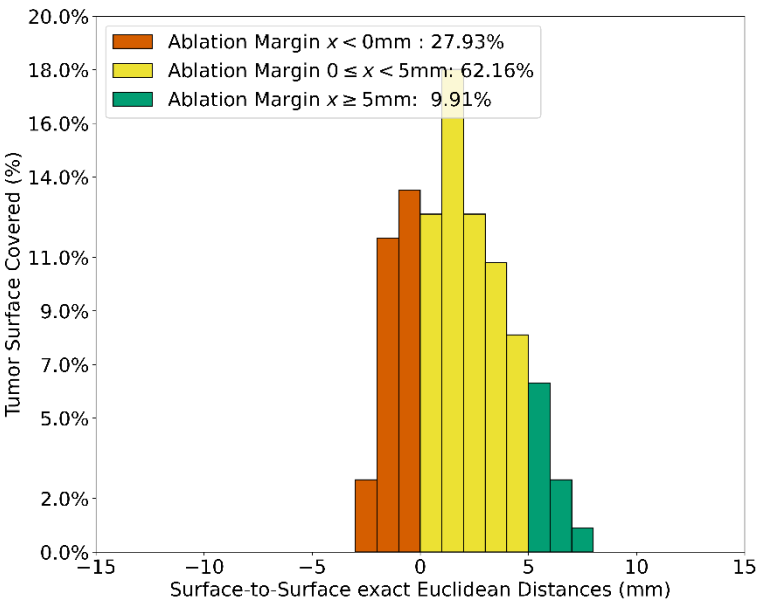
T1.4



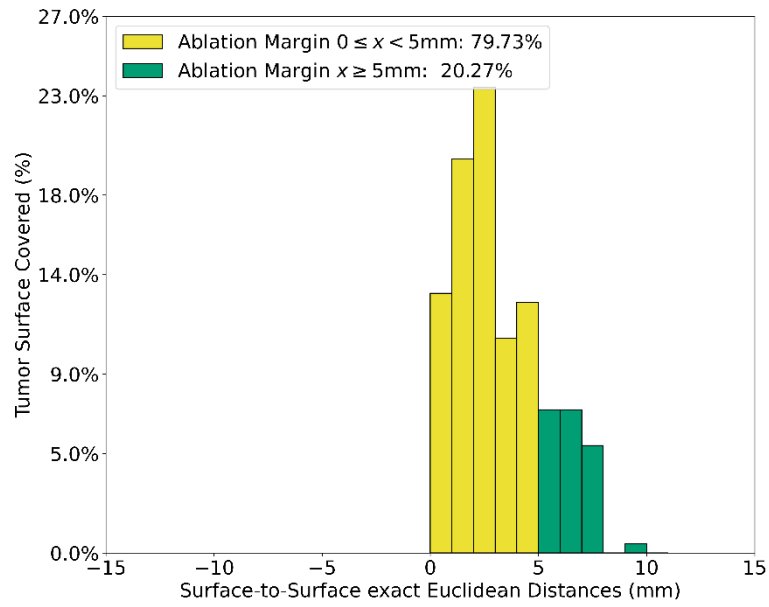
T1.5



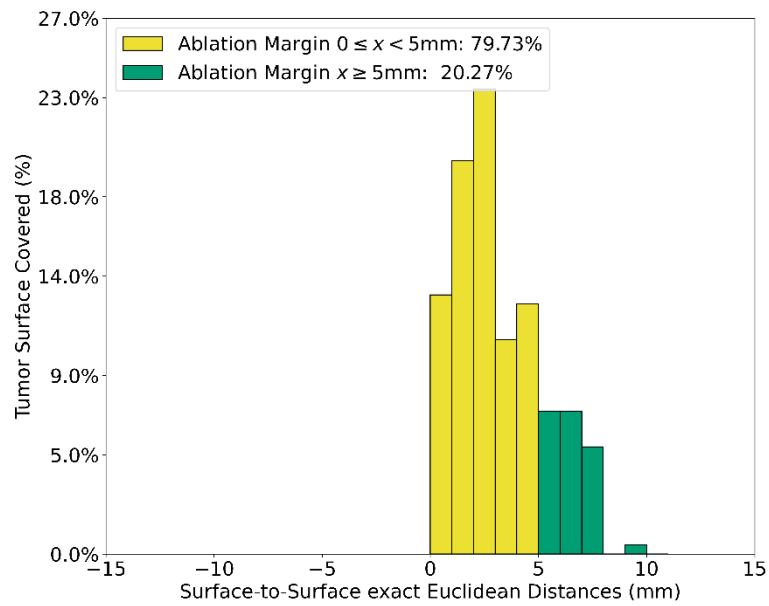
T1.6



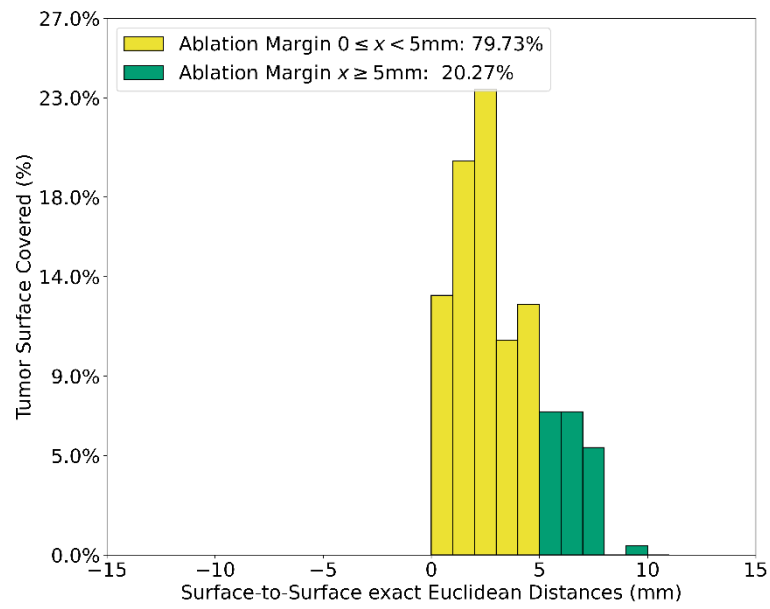
T1.7



T1.8



T1.9



## Artificial examples and results for subcapsular tumors

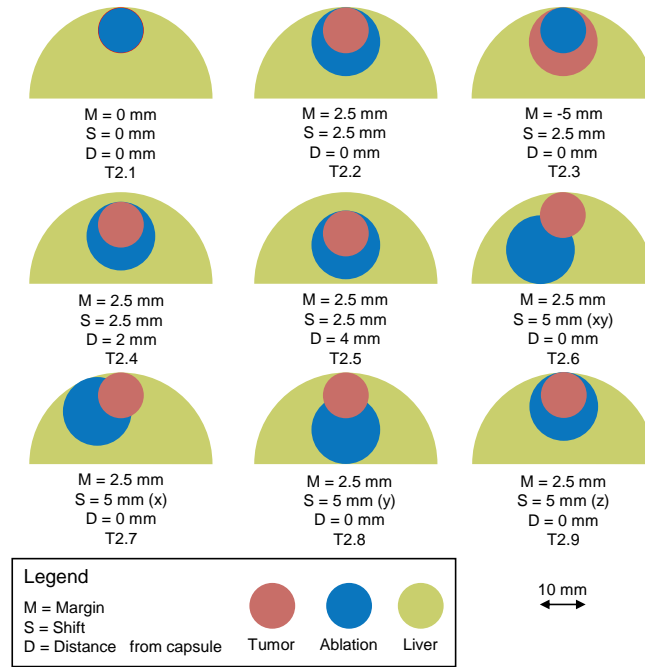


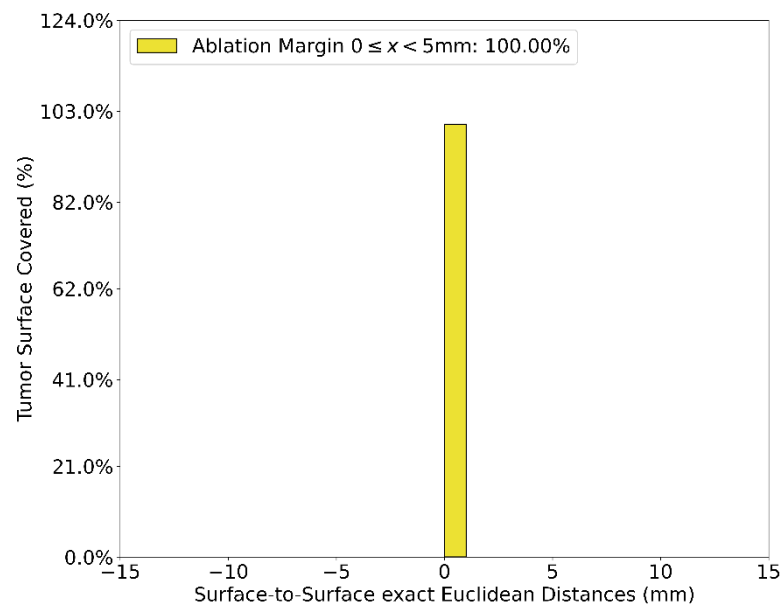
Figure 2: Artificial examples of subcapsular tumors

Table 2. Quantitative ablation margins (QAM) for results for synthetic subcapsular tumors

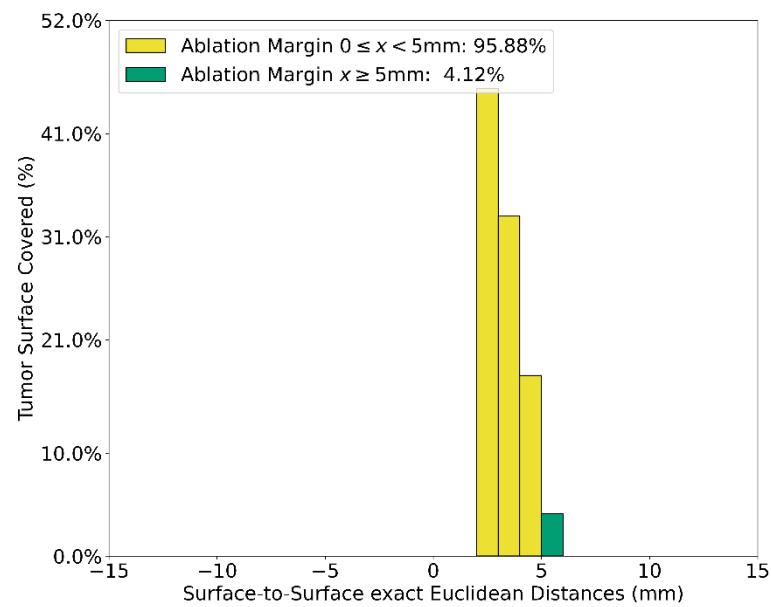
Case	Euclidean distance (mm)					% of tumor surface covered at x surface distances (mm)		
	Min	25 <sup>th</sup> percentile	Median	75 <sup>th</sup> percentile	Max	x < 0	x ≥ 0 < 5	x ≥ 5
T2.1	0.00	0.00	0.00	0.00	0.00	0.00%	100.00%	0.00%
T2.2	2.24	2.45	3.00	3.74	5.00	0.00%	95.88%	4.12%
T2.3	-5.10	-4.24	-3.74	-3.16	-2.24	100.00%	0.00%	0.00%
T2.4	1.41	1.73	2.45	3.16	5.00	0.00%	97.32%	2.68%
T2.5	0.00	1.41	2.24	3.00	5.00	0.00%	97.93%	2.07%
T2.6	-3.00	-1.00	1.00	2.45	4.47	32.99%	67.01%	0.00%
T2.7	-1.00	0.00	1.00	2.45	4.12	24.74%	75.26%	0.00%
T2.8	-2.00	-1.00	1.00	3.00	5.74	26.80%	68.05%	5.15%
T2.9	-2.00	-1.00	1.00	3.00	5.74	26.80%	68.05%	5.15%

Results

T2.1

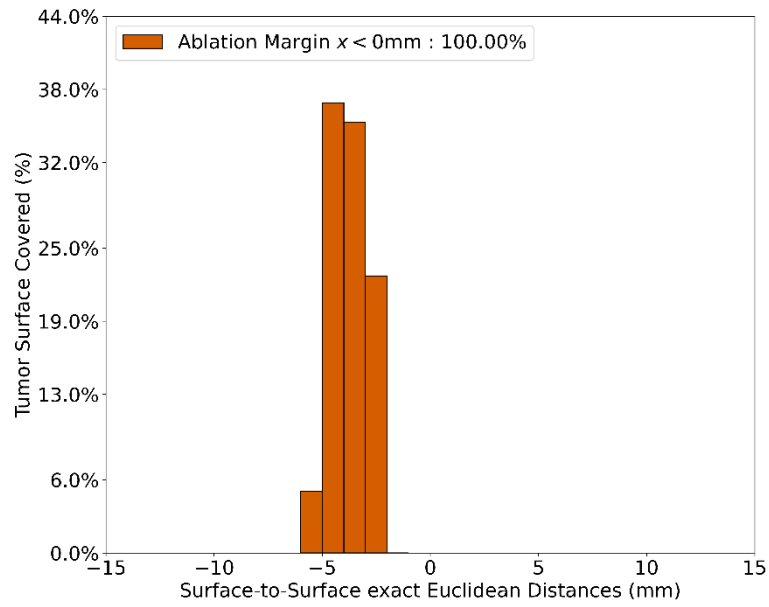


T2.2

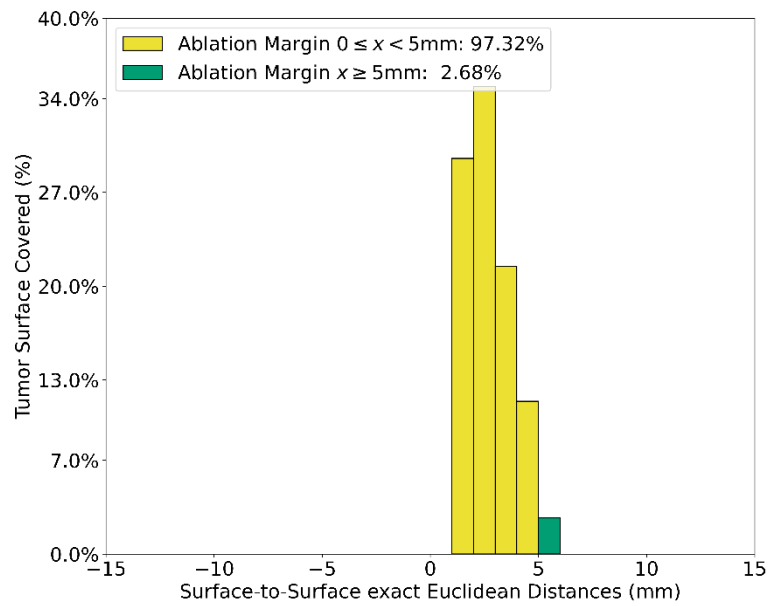




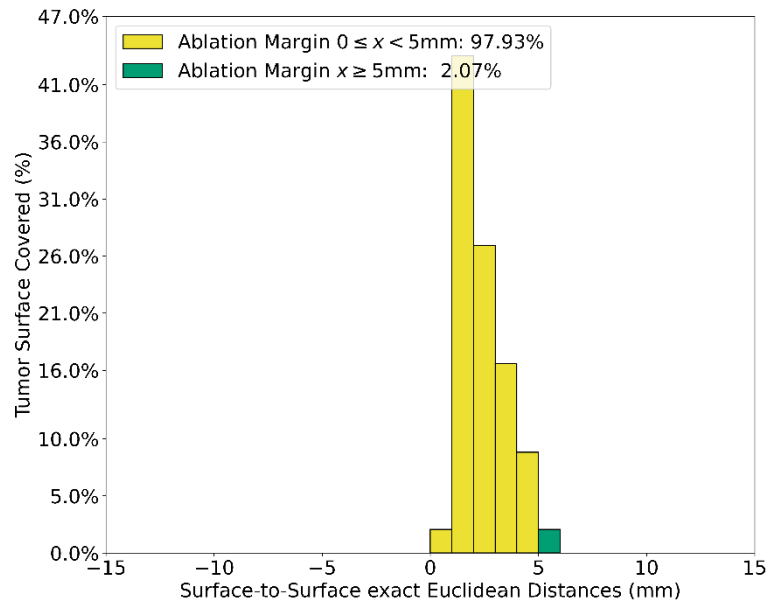
T2.3



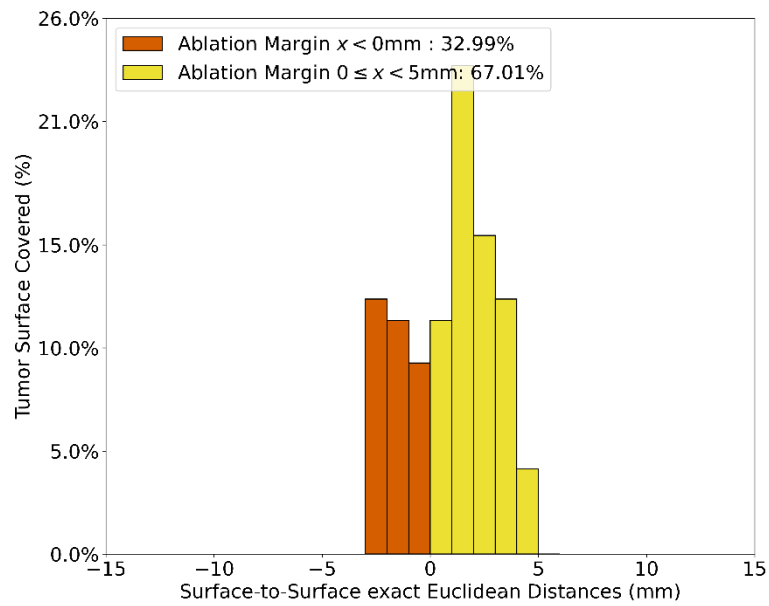
T2.4



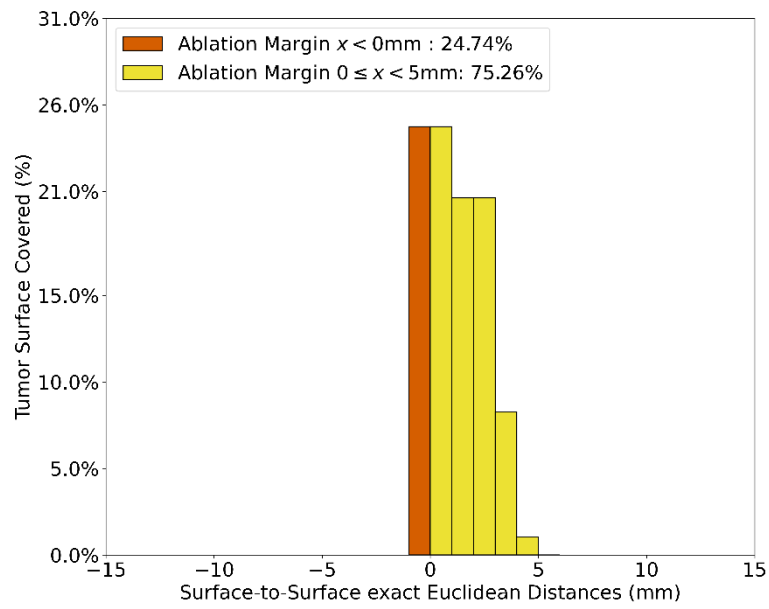
T2.5



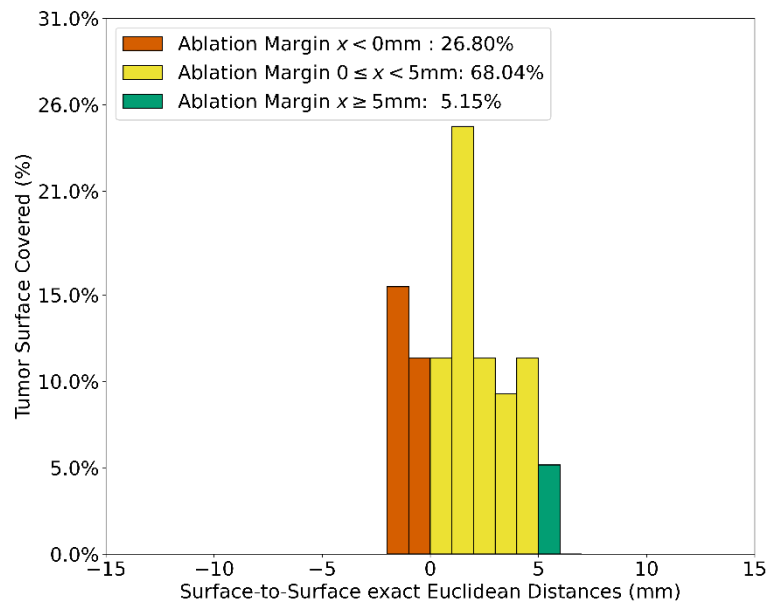
T2.6



T2.7



T2.8



T2.9

