

SDC 1. Multivariable regression analysis for pectoralis cold spot, which is defined as percentage of pectoralis major muscle volume receiving less than 95% of intended radiation dose.

Characteristic	Estimate	95% CI ¹	p-value
Cohort			
Prepectoral group	- reference -	- reference -	
Subpectoral group	5.5	0.67, 10	0.027
BMI	-0.07	-0.68, 0.55	0.83
Pathologic Stage (AJCC)			
0	- reference -	- reference -	
I	0.94	-9.5, 11	0.86
II	1.9	-7.2, 11	0.68
III	8.6	-1.3, 19	0.088
Ipsilateral tissue expander fill	-0.02	-0.04, 0.00	0.10
Radiation laterality			
Left	- reference -	- reference -	
Right	-1.7	-6.6, 3.2	0.49
Chest wall dose (in Gray)	1.5	0.43, 2.6	0.008
BMI = Body Mass Index. AJCC = American Joint Committee on Cancer. ¹ CI = Confidence Interval			

SDC 2. Multivariable regression analysis for pectoralis cold spot for 98%, which is defined as percentage of pectoralis major muscle volume receiving less than 98% of intended radiation dose.

Characteristic	Estimate	95% CI ¹	p-value
Cohort			
Prepectoral group	- reference -	- reference -	
Subpectoral group	14	7.0, 21	<0.001
BMI	-0.33	-1.2, 0.53	0.44
Pathologic Stage (AJCC)			
0	- reference -	- reference -	
I	0.24	-14, 15	0.97
II	-4.0	-17, 8.6	0.52
III	-10	-24, 3.8	0.15
Ipsilateral tissue expander fill	0.02	-0.01, 0.05	0.19
Radiation laterality			
Left	- reference -	- reference -	
Right	4.9	-2.0, 12	0.16
Chest wall dose (in Gray)	-3.4	-4.9, -1.9	<0.001

BMI = Body Mass Index. AJCC = American Joint Committee on Cancer.
¹ CI = Confidence Interval