Supplemental Online Content

Vesprini D, Davidson M, Bosnic S, et al. Effect of supine vs prone breast radiotherapy on acute toxic effects of the skin among women with large breast size: a randomized clinical trial. *JAMA Oncol*. Published online May 26, 2022. doi:10.1001/jamaoncol.2022.1479

eTable 1. Radiation Planning Parameters

eTable 2. Patient Characteristics

eTable 3. Mean change in Quality of Life scores over time

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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Radiation Planning Parameters

Target	Dose-Volume	Planning Objective
CTV (Breast)	V95% > 99%	>99%
	V105% < 2cc	<2cc
Heart	Mean dose	<300cGy
	V50%	<10%
Lung (bilateral)	V2000cGy	<15%
	V500cGy	<20%
Ipsilateral Lung - ExtendRT	V2000cGy	<35%
	V500cGy	<45%
Ipsilateral Lung - HypoRT	V1750cGy	<35%
	V480cGy	<45%
Contralateral Lung - Extend RT	V500cGy	<10%
Contralateral Lung - HypoRT	V480cGy	<10%

Abbreviations: ExtendRT, extended fractionation; HypoRT, hypofractionation

eTable 2. Patient characteristics

Variable	All (n=357)	Min-Max, SD	Supine (n=182)	Prone (n=175)	p value
Mean age (years)	61	29-85, 9.9	62	61	0.11
Mean BMI	33	19-34, 17.8	34	32	0.28
Chemotherapy	78	-	35	43	0.22
Cup size		-			
> D cup	119		61	58	0.94
DD	92		50	42	0.46
DDD	8		3	5	0.44
E-I	19		8	11	0.42
Bra size (N > 40 inches)	108	-	57	51	0.65
Boost delivery	112	-	55	57	0.63
Hypofractionation	177	-	90	87	0.96

Abbreviations: BMI, body mass index; Min, minimum; Max, maximum; SD, standard deviation

eTable 3. Mean change in Quality of Life scores over time

Comparison	QL2 R	SE	T	P	BRBS R	SE	T	P	PA R	SE	T	P
Supine T0 vs T1	-4.85	2.27	2.13	0.03	-22.35	2.15	-10.40	<.0001	-9.95	2.52	-3.94	<.0001
Supine T0 vs T2	-0.16	2.24	0.07	0.94	-6.94	2.13	-3.26	0.00	-0.25	2.50	-0.10	0.92
Supine T1 vs T2	4.68	2.28	-2.05	0.04	15.41	2.16	7.13	<.0001	9.70	2.54	3.82	<0.01
Prone T1 vs T1	-1.97	2.29	0.86	0.39	-19.23	2.18	-8.80	<.0001	-6.24	2.56	-2.44	0.01
Prone T0 vs T2	2.15	2.27	-0.95	0.34	-4.32	2.16	-2.00	0.05	0.78	2.54	0.31	0.76
Prone T1 vs T2	4.12	2.32	-1.78	0.08	14.90	2.22	6.73	<.0001	7.02	2.59	2.71	0.01

Abbreviations; T0 = pretreatment, T1 = end of treatment, T2 = 6-8 weeks post treatment, QL2 R = mean change in Global Health Status Score, SE = Standard Error, T=T value, P = Pvalue, BRBS R = mean change in Breast Symptoms Scale Mean Change, Pain R = mean change in Pain Scale

eTable 4. Mean change in QoL scores comparing supine vs prone arms

Time point	QL2 R	SE	T	P	BRBS R	SE	T	P	PA R	SE	T	P
T0	1.25	2.24	0.56	0.58	-0.70	2.12	-0.33	0.74	-0.51	2.50	-0.21	0.84
T1	-1.62	2.32	-0.70	0.48	2.42	2.21	1.10	0.27	3.20	2.58	1.24	0.22
T2	-1.06	2.28	-0.47	0.64	1.92	2.17	0.88	0.38	0.52	2.55	0.20	0.84

Abbreviations; T0 = pretreatment, T1 = end of treatment, T2 = 6-8 weeks post treatment, QL2 R = mean change in Global Health Status Score, SE = Standard Error, T=T value, P = Pvalue, BRBS R = mean change in Breast Symptoms Scale Mean Change, Pain R = mean change in Pain Scale