

Appendix B

Patient's tumor stage (according to the TNM criteria of BC), skin acute reactions, RT plan details, skin surface doses, and IRS index is presented in detail in the table below

Patient #	Age	TNM classification	RTOG scale	DNA Double Strand Breaks Induction in-Vitro*			%Residual DNA Double Strand Breaks		Slop of dose response curve	Tangential Beams Energy (MV)		Skin Surface Dose (Gy)		
				0 Gy	1 Gy	2 Gy	2 Gy (3h)	2 Gy (24h)	(30 min)	medial	lateral	medial	central	Lateral
1	59	T2N3	1	175	190	202	55	18	5	6	6	1.22	1.41	1.13
2	41	T2N1	1	172	199	259	70	33	40.2	6	6	1.27	1.50	1.26
3	37	T2N1	1	136	160	177	51	26	21.4	15	15	1.85	1.83	1.77
4	79	T2N1	1	147	160	171	50	37.5	25	15	15	1.69	1.70	1.66
5	44	T2N1	3	188	256	319	83	70	34.2	6	6	0.85	0.93	0.96
6	54	T2N2	1	168	199	217	65	71	21.8	6	6	1.14	1.31	1.08
7	33	T2N1	1	173	195	213	50	32.5	21	6	6	1.01	1.32	1.34
8	45	T2N2	1	230	256	288	65	17	28.4	15	15	1.89	2.02	1.80
9	41	T2N0	1	131	164	195	42	25	32.2	6	6	1.04	1.15	1.20
10	41	T2N3	1	103	126	156	67	18	4	6	6	1.14	1.23	1.25
11	57	T1N0	1	133	157	162	65	31	16.4	6	6	1.00	1.22	1.05
12	46	T2N2	2	144	179	215	67	60	35.4	15	15	1.61	1.78	1.68
13	44	T2N2	2	145	174	220	58	49	35.8	15	15	1.78	1.75	1.92
14	61	advanced locally	2	158	193	225	61	50	33.8	6	6	1.18	1.38	1.16
15	40	DCIS** T2N0	1	144	164	173	34	31	15.6	6	6	1.35	0.97	0.98

16	57	T2N0	2	152	228	274	81	62	64	6	6	1.01	1.06	0.88
17	49	T2N0	1	98.5	111	115	-----	-----	9.1	6	6	0.90	0.99	1.02
18	55	T3N1	1	104	115	125	-----	-----	10.6	6	6	0.95	1.27	1.29
19	54	T2N2	1	168	178	188	45	-----	10	6	6	1.16	1.35	1.07
20	36	T3N1	1	194	217	228	47	26	18.2	6	6	1.12	1.28	1.01
21	51	T1N1	3	140	189	193	75	71	31	6	6	0.85	0.95	0.96
22	38	T2N0	2	167	204	241	72	50	37	6	6	1.02	1.27	1.03
23	42	T2N1	1	137	166	176	66	-----	21.2	6	6	0.91	1.16	0.92
24	29	T1N1	1	139	162	190	39	-----	12.2	6	6	0.91	1.06	0.99
25	73	T1N1	2	104	139	172	85	32	66	6	6	0.96	1.04	1.08
26	51	T1Nx	1	116	139	159	65	-----	25.8	6	6	1.03	1.12	1.14
27	64	T2N2	1	182	207	222	60	-----	20.4	6	6	1.09	1.33	1.02
28	74	T2N0	2	153	191	232	46	43	39.2	6	6	1.16	1.19	0.98
29	44	locally advanced	1	141	164	180	48	35	20.2	15	15	1.76	1.73	1.58
30	58	T2N1	1	127	132	137	50	-----	13.8	6	6	1.41	1.03	1.04
31	59	T2N1	3	174	219	276	59	34	49.8	15	15	1.53	1.65	1.69
32	49	T2N0	2	131	176	221	74	41	45	6	6	1.05	1.13	1.08
33	37	T1N3	1	138	164	190	69	32	26	6	6	1.79	1.87	1.75
34	33	T2N0	1	165	184	191	53	26	14.2	6	6	1.46	1.08	1.09
35	59	T2N1	2	152	186	221	60	34	34.4	6+15	6+15	1.66	1.36	1.63
36	65	T2N1	1	127	135	143	43	62	8	6	6	1.90	1.39	1.89
37	74	T2N0	1	160	192	201	41	39	22.8	6	6	1.22	1.28	1.04
38	49	T2N2	1	136	162	206	64	31	26.8	6	6	1.84	1.33	1.84

39	63	T2N1	2	140	199	238	-----	-----	51	15	15	1.82	1.78	1.64
40	46	T2N3	2	118	130	150	59	-----	15.2	15	15	1.75	1.90	1.13
41	40	Locally advance	1	213	236	245	40	-----	17.4	6	6	1.80	1.70	1.53
42	51	Locally advance	1	181	195	210	62	34	14.4	6	6	1.08	1.18	1.19
43	40	T1N0	3	133	184	253	64	47	58.2	6	6	0.96	1.22	0.97
44	62	T2N2	2	190	247	299	66	-----	55	6	6	1.06	1.38	1.40
45	51	T2N1	1	141	163	196	40	49	20.4	6	6	1.95	1.44	1.95
46	46	T2N1	1	203	213	254	33	17	8.8	6	6	1.07	1.27	1.04
47	44	T2N0	1	138	173	213	66	44	17.8	6	6	1.27	1.46	1.18
48	42	T2N1	1	145	190	205	63	35	15.6	6	6	1.12	1.32	1.10
49	59	T2N2	2	164	197	244	45	38	42.2	6	6	0.93	1.06	1.11
50	32	T2N2	2	162	195	198	63	47	21	15	15	1.75	1.76	1.71

* γ H2AX Measuring in 30 minutes as an indicator of DNA Double Strand Breaks Induction

** Ductal carcinoma in situ