

Supplemental Table 1: Overview of the included brain metastases

Metastasis No.	Patient No.	Histology	Pathology	Diameter _{ce} (cm)	VOL _{ce} (ml)	TBR _{max}	TBR _{mean}	BTV (ml)	TTP _{min} (minutes)	TAC*	Concurrent Chemotherapy
1	1	Yes	Lung cancer	3.8	21.43	2.87	1.82	7.68	35.0	2	No
2	2	Yes	Lung cancer	3.6	17.77	3.09	2.07	22.85	7.5	4	No
3	3	No	Lung cancer	0.8	0.22	2.46	1.89	2.11	17.5	3	No
4	4	No	Lung cancer	1.6	1.88	2.22	1.96	1.37	25.0	4	No
5	5	No	Lung cancer	1.0	2.25	2.01	1.75	1.57	n.a.	n.a.	No
6	6	Yes	Lung cancer	3.2	19.58	2.00	1.70	6.26	17.5	4	No
7	7	No	Lung cancer	1.8	2.86	3.86	2.22	9.06	12.5	4	Yes
8	8	No	Lung cancer	5.0	35.88	1.88	1.68	4.58	7.5	5	No
9	9	No	Lung cancer	2.2	8.03	2.62	1.90	4.06	25.0	3	No
10	9	No	Lung cancer	0.9	0.40	1.77	1.64	0.21	35.0	1	No
11	10	Yes	Lung cancer	2.7	4.82	2.60	1.81	6.00	47.5	2	No
12	11	Yes	Lung cancer	1.8	3.31	1.64	1.67	0.06	22.5	3	No
13	11	Yes	Lung cancer	6.0	63.10	4.35	1.87	20.45	12.5	3	No
14	12	Yes	Lung cancer	1.9	6.14	3.07	1.95	6.80	25.0	4	No
15	13	Yes	Lung cancer	1.6	1.76	5.10	2.67	3.91	9.5	5	No
16	14	Yes	Lung cancer	2.7	3.83	4.46	2.26	5.65	15.5	5	No
17	15	Yes	Breast cancer	2.4	3.69	2.94	2.13	0.67	27.5	3	No
18	16	No	Breast cancer	2.4	7.75	3.11	2.19	12.25	12.5	5	No
19	17	No	Breast cancer	1.6	9.08	2.99	1.97	23.98	12.5	2	Yes

20	17	No	Breast cancer	0.7	0.27	1.50	1.22	n.e.	n.e.	n.e.	Yes
21	18	Yes	Breast cancer	0.8	0.22	2.12	1.79	0.36	35.0	3	No
22	19	Yes	Melanoma	2.7	6.20	2.06	1.72	4.14	12.5	5	No
23	20	Yes	Melanoma	2.8	10.01	9.47	3.71	10.95	35.0	1	No
24	20	Yes	Melanoma	1.2	0.97	2.71	1.97	1.01	35.0	1	No
25	20	Yes	Melanoma	0.6	0.14	7.35	5.48	1.35	35.0	1	No
26	21	Yes	Melanoma	2.9	5.08	2.28	1.73	3.27	35.0	1	No
27	21	Yes	Melanoma	2.2	6.72	2.75	2.07	5.24	35.0	1	No
28	22	Yes	Melanoma	2.6	6.71	3.78	2.19	4.40	12.5	4	Yes
29	22	Yes	Melanoma	2.6	8.10	4.39	2.32	4.90	12.5	5	Yes
30	22	Yes	Melanoma	0.8	0.05	1.36	1.05	n.e.	n.e.	n.e.	Yes
31	22	Yes	Melanoma	0.9	0.22	1.79	1.68	0.14	25.0	3	Yes
32	22	Yes	Melanoma	1.5	1.42	2.45	1.84	4.03	7.5	5	Yes
33	22	Yes	Melanoma	0.7	0.18	1.34	1.02	n.e.	n.e.	n.e.	Yes
34	23	No	Melanoma	1.0	0.93	1.27	1.48	n.e.	n.e.	n.e.	No
35	23	No	Melanoma	0.7	0.65	2.12	1.82	0.55	17.5	3	No
36	23	No	Melanoma	2.7	5.41	1.75	1.66	0.22	17.5	3	No
37	24	Yes	Melanoma	1.0	0.28	1.93	1.72	0.15	25.0	3	No
38	25	No	Melanoma	2.2	4.31	1.66	1.63	0.04	25.0	3	No
39	25	No	Melanoma	0.9	0.13	1.25	1.07	n.e.	n.e.	n.e.	No
40	25	No	Melanoma	1.2	1.48	1.66	1.63	0.09	35.0	1	No
41	26	Yes	Melanoma	5.0	15.95	1.91	1.71	1.15	25.0	2	No
42	27	No	Melanoma	0.9	0.19	1.94	1.73	0.30	35.0	1	Yes

43	28	Yes	Melanoma	1.7	1.65	4.31	2.52	2.06	12.5	5	No
44	29	Yes	Ewing Sarcoma	1.7	1.19	4.01	2.31	5.62	4.5	5	Yes
45	30	Yes	CUP	3.0	7.63	1.80	1.66	0.48	17.5	4	No

N.a. = not available; n.e. = not evaluable; CUP = cancer of unknown primary;

TAC*: 1 = increasing, 2 = mainly increasing, 3 = mixed patterns, 4 = mainly decreasing, 5 = decreasing.