

**Supplementary Table 2:** General side effects reported by all metastatic skin cancer patients and by ICI patients after first and second vaccination, with duration of symptoms given in days

Symptoms	All patients				ICI patients			
	1st vaccination (n=109)	Median duration in days (range)	2nd vaccination (n=102)	Median duration in days (range)	1st vaccination (n=89)	Median duration in days (range)	2nd vaccination (n=85)	Median duration in days (range)
Pain at injection site	44 (40%)	1 (1-7)	38 (37%)	1 (1-7)	36 (40%)	1 (1-7)	32 (38%)	1 (1-7)
Redness at injection site	7 (6%)	2 (1-4)	4 (4%)	3 (1-7)	6 (7%)	2 (1-4)	4 (5%)	3 (1-7)
Fatigue	23 (21%)	1 (1-10)	33 (32%)	2 (1-7)	21 (24%)	1 (1-10)	32 (38%)	2 (1-7)
Feeling of weakness	5 (6%)	5 (2-10)	13 (13%)	2 (1-7)	5 (6%)	5 (2-10)	13 (15%)	2 (1-7)
Malaise	2 (2%)	2 (1-3)	10 (10%)	1.5 (1-7)	2 (2%)	2 (1-3)	9 (11%)	2 (1-7)
Vomiting	0 (0%)	n/a	3 (3%)	1	0 (0%)	n/a	3 (4%)	1
Dizziness	4 (4%)	2.5 (1-10)	5 (5%)	2 (1-5)	4 (4%)	2.5 (1-10)	5 (6%)	2 (1-5)
Headache	9 (8%)	2 (1-7)	15 (15%)	1 (1-6)	9 (10%)	2 (1-7)	15 (18%)	1 (1-6)
Muscle pain	9 (8%)	2 (1-7)	11 (11%)	1 (1-7)	8 (9%)	2 (1-7)	10 (12%)	1.5 (1-7)
Joint pain	5 (5%)	5 (2-7)	10 (10%)	1.5 (1-7)	5 (6%)	5 (2-7)	10 (12%)	2 (1-7)
Fever	6 (7%)	1.5 (1-7)	11 (11%)	1 (1-7)	6 (7%)	1.5 (1-7)	10 (12%)	1.5 (1-7)
Chills	4 (4%)	1 (1-7)	7 (7%)	1 (1-3)	6 (7%)	1.5 (1-7)	6 (7%)	1.5 (1-3)
Flu-like symptoms	3 (3%)	4 (1-7)	4 (4%)	2 (2-5)	3 (3%)	4 (1-7)	4 (5%)	2 (2-5)
Lymph node swelling	1 (1%)	7	2 (2%)	4.5 (2-7)	1 (1%)	7	1 (1%)	7
Heart racing	0 (0%)	n/a	1 (1%)	5	0 (0%)	n/a	1 (1%)	5
Rash	0 (0%)	n/a	0 (0%)	n/a	0 (0%)	n/a	0 (0%)	n/a
Seizure	0 (0%)	n/a	0 (0%)	n/a	0 (0%)	n/a	0 (0%)	n/a
Allergic reactions	0 (0%)	n/a	0 (0%)	n/a	0 (0%)	n/a	0 (0%)	n/a

Abbreviations: ICI, immune checkpoint inhibitors. n/a, not applicable.