Supplementary Material

Supplementary table 1. Disease and t	treatment characte	eristics and their	r association with
postponed/missed appointments.			

Characteristic	Whole cohort	Postponed/missed ar	nointments	
Characteristic	n=324 ^a	Yes, n=48 ^a	No, <i>n</i> =276 ^a	p^{b}
	n (%)	n (%)	n (%)	P
AJCC 2017 stage				
I	157 (48.5)	27 (56.3)	130 (47.1)	0.245
II	65 (20.1)	7 (14.6)	58 (21.0)	
III	57 (17.6)	5 (10.4)	52 (18.8)	
IV	45 (13.9)	9 (18.8)	36 (13.0)	
Disease duration ^c	10 (1013)	(1010)	50 (1510)	
<3 months	18 (5.6)	0 (0.0)	18 (6.5)	0.176
3-12 months	72 (22.3)	7 (14.9)	65 (23.6)	
>1-3 years	149 (46.1)	28 (59.6)	121 (43.8)	
>3-5 years	47 (14.6)	6 (12.8)	41 (14.9)	
>5-10 years	25 (7.7)	5 (10.6)	20 (7.2)	
>10 years	12 (3.7)	1 (2.1)	11 (4.0)	
Current tumour burden	()			
No	298 (92.0)	43 (89.6)	255 (92.4)	0.509
Yes	26 (8.0)	5 (10.4)	21 (7.6)	
Primary melanoma	2 (0.6)	0 (0.0)	2 (0.7)	0.473
Regional lymph node metastases	4 (1.2)	0 (0.0)	4 (1.4)	0.289
Satellite or in transit-metastases	5 (1.5)	2 (4.2)	3 (1.1)	0.190
Distant metastases	21 (6.5)	5 (10.4)	16 (5.8)	0.225
Current treatment ^d	(*)	- ()	()	
No	220 (67.9)	41 (85.4)	179 (64.9)	0.005
Yes	104 (32.1)	7 (14.6)	97 (35.1)	0.000
Kind of current treatment ^e	101(02.1)	7 (11.0)	<i>y</i> (00.1)	
Patients	104 (100.0)	7 (100.0)	97 (100.0)	
Surgery ^e	49 (47.1)	4 (57.1)	45 (46.4)	0.582
Primary melanoma	39 (37.5)	2 (28.6)	37 (38.1)	0.613
SLNB	18 (17.3)	1(14.3)	17 (17.5)	0.827
CLND	0 (0.0)	0(0.0)	0 (0.0)	n.a. ^f
Other metastases	10 (9.6)	2 (28.6)	8 (8.2)	0.078
Radiotherapy ^e	3 (2.9)	0 (0.0)	3 (3.1)	0.637
Systemic treatment ^e	66 (63.5)	5 (71.4)	61 (62.9)	0.650
Interferon-a	2 (1.9)	0(0.0)	2 (2.1)	0.701
ICI	53 (51.0)	3 (42.9)	50 (51.5)	0.657
PD-1 inhibitor monotherapy	50 (48.1)	3 (42.9)	47 (48.5)	0.662
Nivolumab + ipilimumab ^g	3 (2.9)	0(0.0)	3 (3.1)	0.002
Ipilimumab monotherapy	0 (0.0)	0 (0.0)	0 (0.0)	
BRAF/MEK inhibitors	13 (12.5)	2 (28.6)	11 (11.3)	0.183
Systemic treatment intention ^e	15 (12.5)	2 (20.0)	11 (11.5)	0.105
Adjuvant	37 (35.6)	2 (28.6)	35 (36.1)	0.452
Palliative	29 (27.9)	3 (42.9)	26 (26.8)	0.152
Response to current treatment ^e	2) (21.))	5 (42.7)	20 (20.0)	
CR	77 (74.0)	4 (57.1)	73 (75.3)	0.367
PR	3 (2.9)	1 (14.3)	2 (2.1)	0.507
SD	10 (9.6)	1 (14.3)	2 (2.1) 9 (9.3)	
SD PD				
	4 (3.8)	0(0.0) 1(14.2)	4(4.1)	
Not yet known	10 (9.6)	1 (14.3)	9 (9.3)	
Current treatment goal ^h	105 (100 0)	8 (100 0 ^h	07 (100 0)	
Total	105 (100.0)	8 (100.0) ^h	97 (100.0)	0.870
Curative	77 (73.3)	5 (62.5)	72 (74.2)	0.870
Palliative	28 (26.7)	3 (37.5)	25 (25.8)	0.325
Treatment experience ^{a,i}	222 (00 4)	48 (100.0)	274 (00.2)	0.554
Surgery	322 (99.4)	48 (100.0)	274 (99.3)	0.554
Primary melanoma	314 (96.9)	47 (97.9)	267 (96.7)	0.663
SLNB CLND	219 (67.6)	35 (72.9)	184 (66.7)	0.393
	53 (16.4)	6 (12.5)	47 (17.0)	0.434
Other metastases	48 (14.8)	8 (16.7)	40 (14.5)	0.696
Radiotherapy	19 (5.9)	2(4.2)	17 (6.2)	0.588
Systemic treatment	104 (32.1)	12 (25.0)	92 (33.3)	0.254
Interferon-α	34 (10.5)	4 (8.3)	30 (10.9)	0.597
ICI PD 1 inhibitor monothereny	78 (24.1)	9 (18.8)	69 (25.0) 63 (22.8)	0.350
PD-1 inhibitor monotherapy	71 (21.9)	8 (16.7)	63 (22.8) 5 (1.8)	0.169
Nivolumab + ipilimumab ^g	5 (1.6)	0(0.0)	5 (1.8)	
Ipilimumab monotherapy	2(0.6)	1(2.1)	1(0.4)	0.650
BRAF/MEK inhibitors	16(4.9)	3 (6.3)	13 (4.7)	0.650
Chemotherapy Otheral	6 (1.9)	1(2.1)	5 (1.8)	0.897
Other ^j	6 (1.9)	0 (0.0)	6 (2.2)	0.302

^a For calculation of proportions, the total number of participants in each group was set at 100%. Percentages do not always add up to 100% due to rounding and multiple answers. ^b Differences between participants who postponed/missed their appointment and participants who kept all appointments were tested for significance using the Chi-square test.

^c Missing data: disease duration n=1.

^{*d*} Current treatments comprised all melanoma therapies obtained between February 1st 2020 and the date of study participation.

^{*e*} Percentages refer to all patients with current treatment (n=104, n=7 or n=97, 100%). ^{*f*} N.a.: not assessed.

^g Combination therapy with nivolumab and ipilimumab was routinely followed by nivolumab monotherapy.

^h One participant first obtained surgery with curative intention and subsequently required palliative systemic treatment. Therefore, n=105 was set at 100%.

^{*i*} All treatments ever received, either currently or in the past.

^{*j*} Other treatments included hyperthermic limb perfusion (n=1), electrochemotherapy (n=1), cryotherapy (n=2), laser treatment (n=1) and radiofrequency ablation (n=2). One patient received both hyperthermic limb perfusion and electrochemotherapy. Significant findings are highlighted in bold.

AJCC: American Joint Committee on Cancer; CLND: complete lymph node dissection; CR: complete response; ICI: immune checkpoint inhibitors; n: number; PD: progressive disease; PR: partial response; SD: stable disease; SLNB: sentinel lymph node biopsy.

Supplementary table 2. Treatment changes or postponement due to the pandemic.

Characteristics	Patient 1	Patient 2	Patient 3	Patient 4
Sex	male	female	female	female
Age	54	85	30	54
AJCC stage	IV	IIB	IB	IIID
Current tumour burden	yes	yes	no	no
Kind of tumour burden	brain and lung metastasis	R1 situation after primary melanoma excision		
Current treatment	surgery of brain and lung metastasis, radiotherapy, pembrolizumab	wide excision with 2 cm margins	wide excision with 1 cm margins, SLND	adjuvant pembrolizumab
Treatment intention	palliative	curative	curative	curative
Kind of change	hypofractionated radiotherapy after neurosurgery of the brain metastasis (6 sessions with 4 Gy instead of 12 sessions with 3 Gy)	wide excision with safely margins delayed for 4 weeks due to COVID-19 outbreak in another hospital	wide excision with safety margins and SLND delayed for 4 weeks on patient's request	pembrolizumab 400 mg 6-weekly instead of 200 mg 3-weekly
Level of concern for COVID-19				
Scale 0-100	68	20	30	20
5-point scale	High	Low	Moderate	Low
Level of concern for melanoma				
Scale 0-100	60	20	100	25
5-point scale	Moderate	Low	Very high	Moderate
EQ-5D-5L	0.799	0.369	0.756	0.913
Comorbidities	Hypothyroidism, second melanoma	hypertension, COPD, renal insufficiency, arthrosis, restless legs	none	arthropathy, autoimmune thyroiditis, allergies, unilateral deafness

AJCC: American Joint Committee on Cancer; COPD: chronic obstructive pulmonary disease; EQ-5D-5L: EuroQoL 5-Dimension 5-Level health-related quality of life score; Gy: grey; SLND: sentinel lymph node biopsy.

	Whole cohort	Postponed/missed appointment		
Comorbidity	n=324 ^a	Yes, n=48 ^a	No, <i>n</i> =276 ^a	p^{b}
	n (%)	n (%)	n (%)	p^{\perp}
Hypertension	181 (55.9)	28 (58.3)	153 (55.4)	0.709
Other cardiovascular diseases	108 (33.3)	16 (33.3)	92 (33.3)	1.000
Pulmonary diseases	41 (12.7)	7 (14.6)	34 (12.3)	0.663
Hepatic diseases	27 (8.3)	5 (10.4)	22 (8.0)	0.572
Renal diseases	40 (12.3)	6 (12.5)	34 (12.3)	0.972
Urologic diseases	33 (10.2)	5 (10.4)	28 (10.1)	0.954
Gastrointestinal diseases	41 (12.7)	5 (10.4)	36 (13.0)	0.613
Ophthalmologic diseases	25 (7.7)	6 (12.5)	19 (6.9)	0.178
Diabetes mellitus	56 (17.3)	10 (20.8)	46 (16.7)	0.481
Arthropathy	139 (42.9)	23 (47.9)	116 (60.1)	0.447
Thyroid disease	101 (31.2)	12 (25.0)	89 (32.2)	0.317
Autoimmune disease	4 (1.2)	0 (0.0)	4 (1.4)	0.401
Immunosuppression	15 (4.6)	4 (8.3)	11 (4.0)	0.186
Allergies	89 (27.5)	15 (31.3)	74 (26.8)	0.525
Depression	27 (8.3)	6 (12.5)	21 (7.6)	0.258
Anxiety disorder	15 (4.6)	6 (12.5)	9 (3.3)	0.005
Other mental illnesses	4 (1.2)	1 (2.1)	3 (1.1)	0.564
Dyslipidaemia	104 (32.1)	15 (31.3)	89 (32.2)	0.891
Cancer				
≥ 2 MM or additional MM <i>in situ</i> ^c	36 (11.1)	6 (12.5)	30 (10.9)	0.747
Other skin cancer	34 (10.5)	6 (12.5)	28 (10.1)	0.623
Other cancer	51 (15.8)	11 (22.9)	40 (14.5)	0.142
Other comorbidities	99 (30.6)	17 (35.4)	82 (29.7)	0.428
No comorbidity	28 (8.6)	3 (6.3)	25 (9.1)	0.523
≥5 comorbidities	139 (42.9)	25 (52.1)	114 (41.3)	0.164

Supplementary table 3. Comorbidities and their association with postponed/missed appointments.

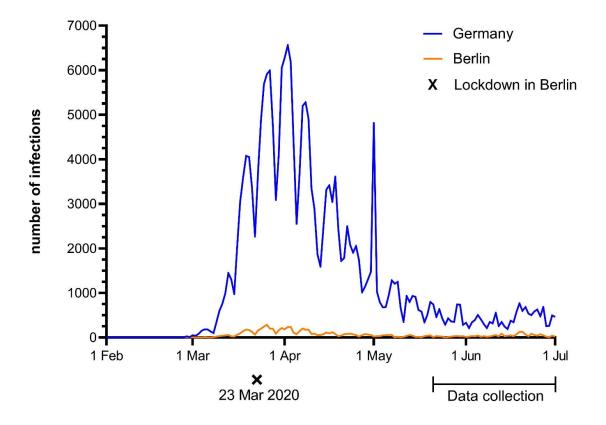
^{*a*} For calculation of proportions, the number of participants in each group was set at 100%.

^b Differences between participants who postponed/missed their appointment and participants who kept all appointments were tested for significance using the Chi-square test.

^c missing data: ≥ 2 MM or additional MM in situ n=1.

Significant findings are highlighted in bold. MM: malignant melanoma.

Supplementary figure 1. Number of new SARS-CoV-2 infections per day in Germany and Berlin between February 1st 2020 and July 1st 2020.



Sources:

WHO coronavirus disease (COVID-19) dashboard. Geneva: World Health Organization, 2020. Available at: https://covid19.who.int/ (accessed 2020-08-05).

Robert-Koch-Institute: COVID-19-Dashboard 2020. Available at:

https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4/page/page_1 / (accessed 2020-08-07).