

# **Dossier zur Nutzenbewertung gemäß § 35a SGB V**

*Pembrolizumab (KEYTRUDA®)*

**MSD Sharp & Dohme GmbH**

## **Modul 4 A**

*Anhang 4-G: Weitere Ergebnisse*

*Monotherapie zur adjuvanten Behandlung des  
Melanoms in den Tumorstadien IIB, IIC oder III nach vollständiger  
Resektion bei Kindern und Jugendlichen ab 12 Jahren und bei  
Erwachsenen*

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**Anhang 4-G1: Rücklaufquoten des EORTC QLQ-C30 und der EQ-5D VAS (KEYNOTE 716)**

Im Folgenden werden ergänzend zu Abschnitt 4.3.1.3.1.1.4 bzw. Abschnitt 4.3.1.3.1.2.1 die Rücklaufquoten des EORTC QLQ-C30 und die Rücklaufquoten des EQ-5D VAS der Studie KEYNOTE 716 dargestellt.

Alle Ergebnisse beziehen sich auf den Datenschnitt vom 04.01.2022 (Interimsanalyse III).

**Anhang 4-G1.1: Rücklaufquoten des EORTC QLQ-C30**

Tabelle 4G-1: Gründe für das Fehlen von Werten im EORTC QLQ-C30

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	n (%)	N=486	n (%)
BASELINE	Discontinued due to relapse/recurrence	0	(0.0)	0	(0.0)
	Discontinued due to withdrawal by subject	0	(0.0)	0	(0.0)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	3	(0.6)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
WEEK 12	<b>Expected to Complete Questionnaires</b>	<b>482</b>	<b>(99.8)</b>	<b>486</b>	<b>(100.0)</b>
	Completed	409	(84.7)	440	(90.5)
	Compliance (% in those expected to complete questionnaires)	409	(84.9)	440	(90.5)
	Not completed	73	(15.1)	46	(9.5)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	19	(3.9)	11	(2.3)
	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	3	(0.6)	0	(0.0)
	Subject refused for other reasons	6	(1.2)	2	(0.4)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	N=486	(%)
WEEK 12	Other	30	(6.2)	22	(4.5)
	With visit, no record	14	(2.9)	10	(2.1)
	<b>Missing by Design</b>	<b>1</b>	<b>(0.2)</b>	<b>0</b>	<b>(0.0)</b>
	Discontinued due to adverse event	0	(0.0)	0	(0.0)
	Discontinued due to lost to follow-up	0	(0.0)	0	(0.0)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	0	(0.0)	0	(0.0)
	Discontinued due to protocol violation	0	(0.0)	0	(0.0)
	Discontinued due to relapse/recurrence	0	(0.0)	0	(0.0)
	Discontinued due to withdrawal by subject	0	(0.0)	0	(0.0)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
WEEK 24	<b>Expected to Complete Questionnaires</b>	<b>460</b>	<b>(95.2)</b>	<b>469</b>	<b>(96.5)</b>
	Completed	384	(79.5)	393	(80.9)
	Compliance (% in those expected to complete questionnaires)	384	(83.5)	393	(83.8)
	Not completed	76	(15.7)	76	(15.6)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	25	(5.2)	23	(4.7)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	1	(0.2)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	1	(0.2)	0	(0.0)
	Subject refused for other reasons	6	(1.2)	8	(1.6)
	Other	27	(5.6)	24	(4.9)
	With visit, no record	16	(3.3)	20	(4.1)
	<b>Missing by Design</b>	<b>23</b>	<b>(4.8)</b>	<b>17</b>	<b>(3.5)</b>

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	n	(%)
WEEK 24	Discontinued due to adverse event	6	(1.2)	2	(0.4)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	0	(0.0)	0	(0.0)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	1	(0.2)	8	(1.6)
	Discontinued due to withdrawal by subject	11	(2.3)	3	(0.6)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	1	(0.2)
WEEK 36	<b>Expected to Complete Questionnaires</b>	<b>439</b>	<b>(90.9)</b>	<b>442</b>	<b>(90.9)</b>
	Completed	351	(72.7)	366	(75.3)
	Compliance (% in those expected to complete questionnaires)	351	(80.0)	366	(82.8)
	Not completed	88	(18.2)	76	(15.6)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	30	(6.2)	31	(6.4)
	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	9	(1.9)	5	(1.0)
	Other	23	(4.8)	22	(4.5)
	With visit, no record	25	(5.2)	17	(3.5)
	<b>Missing by Design</b>	<b>44</b>	<b>(9.1)</b>	<b>44</b>	<b>(9.1)</b>
	Discontinued due to adverse event	12	(2.5)	2	(0.4)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	N=486	(%)
WEEK 36	Discontinued due to physician decision	1	(0.2)	0	(0.0)
	Discontinued due to protocol violation	3	(0.6)	1	(0.2)
	Discontinued due to relapse/recurrence	9	(1.9)	25	(5.1)
	Discontinued due to withdrawal by subject	15	(3.1)	14	(2.9)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	3	(0.6)	0	(0.0)
WEEK 48	<b>Expected to Complete Questionnaires</b>	<b>413</b>	<b>(85.5)</b>	<b>415</b>	<b>(85.4)</b>
	Completed	353	(73.1)	379	(78.0)
	Compliance (% in those expected to complete questionnaires)	353	(85.5)	379	(91.3)
	Not completed	60	(12.4)	36	(7.4)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	10	(2.1)	5	(1.0)
	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	1	(0.2)	0	(0.0)
	Subject refused for other reasons	6	(1.2)	4	(0.8)
	Other	24	(5.0)	16	(3.3)
	With visit, no record	18	(3.7)	11	(2.3)
	<b>Missing by Design</b>	<b>70</b>	<b>(14.5)</b>	<b>71</b>	<b>(14.6)</b>
	Discontinued due to adverse event	20	(4.1)	4	(0.8)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	1	(0.2)	0	(0.0)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	20	(4.1)	42	(8.6)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	n	(%)
WEEK 48	Discontinued due to withdrawal by subject	23	(4.8)	17	(3.5)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	3	(0.6)
	Visit not scheduled	1	(0.2)	2	(0.4)
WEEK 60	<b>Expected to Complete Questionnaires</b>	<b>376</b>	<b>(77.8)</b>	<b>363</b>	<b>(74.7)</b>
	Completed	311	(64.4)	304	(62.6)
	Compliance (% in those expected to complete questionnaires)	311	(82.7)	304	(83.7)
	Not completed	65	(13.5)	59	(12.1)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	17	(3.5)	20	(4.1)
	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	1	(0.2)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	2	(0.4)	3	(0.6)
	Other	37	(7.7)	33	(6.8)
	With visit, no record	7	(1.4)	3	(0.6)
	<b>Missing by Design</b>	<b>107</b>	<b>(22.2)</b>	<b>123</b>	<b>(25.3)</b>
	Discontinued due to adverse event	30	(6.2)	8	(1.6)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	3	(0.6)	1	(0.2)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	23	(4.8)	58	(11.9)
	Discontinued due to withdrawal by subject	27	(5.6)	16	(3.3)
	Completed study treatment	17	(3.5)	36	(7.4)
	Translation not available in subjects language	2	(0.4)	1	(0.2)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	n	(%)
WEEK 60	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	1	(0.2)	0	(0.0)
WEEK 72	<b>Expected to Complete Questionnaires</b>	<b>337</b>	<b>(69.8)</b>	<b>336</b>	<b>(69.1)</b>
	Completed	289	(59.8)	292	(60.1)
	Compliance (% in those expected to complete questionnaires)	289	(85.8)	292	(86.9)
	Not completed	48	(9.9)	44	(9.1)
	Subject did not complete due to disease under study	0	(0.0)	1	(0.2)
	Not completed due to site staff error	10	(2.1)	19	(3.9)
	Subject in hospital or hospice	0	(0.0)	1	(0.2)
	Subject was physically unable to complete	1	(0.2)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	7	(1.4)	4	(0.8)
	Other	28	(5.8)	18	(3.7)
	With visit, no record	2	(0.4)	1	(0.2)
	<b>Missing by Design</b>	<b>146</b>	<b>(30.2)</b>	<b>150</b>	<b>(30.9)</b>
	Discontinued due to adverse event	32	(6.6)	11	(2.3)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	3	(0.6)	1	(0.2)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	22	(4.6)	61	(12.6)
	Discontinued due to withdrawal by subject	30	(6.2)	19	(3.9)
	Completed study treatment	54	(11.2)	54	(11.1)
	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
WEEK 84	<b>Expected to Complete Questionnaires</b>	<b>294</b>	<b>(60.9)</b>	<b>285</b>	<b>(58.6)</b>

Treatment Visit	Category	Pembrolizumab		Placebo	
		n	(%)	n	(%)
WEEK 84	Completed	254	(52.6)	249	(51.2)
	Compliance (% in those expected to complete questionnaires)	254	(86.4)	249	(87.4)
	Not completed	40	(8.3)	36	(7.4)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	14	(2.9)	10	(2.1)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	1	(0.2)
	Subject lost to follow-up/unable to contact	1	(0.2)	1	(0.2)
	Subject did not complete due to side effects of treatment	1	(0.2)	0	(0.0)
	Subject refused for other reasons	8	(1.7)	1	(0.2)
	Other	16	(3.3)	22	(4.5)
	With visit, no record	0	(0.0)	1	(0.2)
	<b>Missing by Design</b>	<b>189</b>	<b>(39.1)</b>	<b>201</b>	<b>(41.4)</b>
	Discontinued due to adverse event	43	(8.9)	15	(3.1)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	8	(1.7)	3	(0.6)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
WEEK 96	Discontinued due to relapse/recurrence	23	(4.8)	61	(12.6)
	Discontinued due to withdrawal by subject	30	(6.2)	24	(4.9)
	Completed study treatment	80	(16.6)	95	(19.5)
	Translation not available in subjects language	1	(0.2)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
	<b>Expected to Complete Questionnaires</b>	<b>265</b>	<b>(54.9)</b>	<b>263</b>	<b>(54.1)</b>
	Completed	236	(48.9)	236	(48.6)
	Compliance (% in those expected to complete questionnaires)	236	(89.1)	236	(89.7)
	Not completed	29	(6.0)	27	(5.6)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	N=486	(%)
WEEK 96	Subject did not complete due to disease under study	1	(0.2)	0	(0.0)
	Not completed due to site staff error	9	(1.9)	9	(1.9)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	2	(0.4)	5	(1.0)
	Other	16	(3.3)	12	(2.5)
	With visit, no record	1	(0.2)	0	(0.0)
	<b>Missing by Design</b>	<b>218</b>	<b>(45.1)</b>	<b>223</b>	<b>(45.9)</b>
	Discontinued due to adverse event	43	(8.9)	11	(2.3)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	7	(1.4)	2	(0.4)
	Discontinued due to protocol violation	3	(0.6)	1	(0.2)
	Discontinued due to relapse/recurrence	24	(5.0)	61	(12.6)
	Discontinued due to withdrawal by subject	33	(6.8)	23	(4.7)
	Completed study treatment	107	(22.2)	121	(24.9)
MONTH 30	Translation not available in subjects language	1	(0.2)	2	(0.4)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
	<b>Expected to Complete Questionnaires</b>	<b>124</b>	<b>(25.7)</b>	<b>125</b>	<b>(25.7)</b>
	Completed	110	(22.8)	115	(23.7)
	Compliance (% in those expected to complete questionnaires)	110	(88.7)	115	(92.0)
	Not completed	14	(2.9)	10	(2.1)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	7	(1.4)	3	(0.6)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	N=486	(%)
MONTH 30	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	1	(0.2)	1	(0.2)
	Other	6	(1.2)	6	(1.2)
	With visit, no record	0	(0.0)	0	(0.0)
	<b>Missing by Design</b>	<b>359</b>	<b>(74.3)</b>	<b>361</b>	<b>(74.3)</b>
	Discontinued due to adverse event	67	(13.9)	19	(3.9)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	9	(1.9)	3	(0.6)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	24	(5.0)	61	(12.6)
	Discontinued due to withdrawal by subject	38	(7.9)	24	(4.9)
	Completed study treatment	216	(44.7)	251	(51.6)
	Translation not available in subjects language	1	(0.2)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
MONTH 36	<b>Expected to Complete Questionnaires</b>	<b>26</b>	<b>(5.4)</b>	<b>28</b>	<b>(5.8)</b>
	Completed	25	(5.2)	27	(5.6)
	Compliance (% in those expected to complete questionnaires)	25	(96.2)	27	(96.4)
	Not completed	1	(0.2)	1	(0.2)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	1	(0.2)	0	(0.0)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)

Treatment Visit	Category	Pembrolizumab		Placebo	
		N=483	(%)	N=486	(%)
MONTH 36	Subject refused for other reasons	0	(0.0)	0	(0.0)
	Other	0	(0.0)	1	(0.2)
	With visit, no record	0	(0.0)	0	(0.0)
	<b>Missing by Design</b>	<b>457</b>	<b>(94.6)</b>	<b>458</b>	<b>(94.2)</b>
	Discontinued due to adverse event	84	(17.4)	22	(4.5)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	10	(2.1)	4	(0.8)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	24	(5.0)	61	(12.6)
	Discontinued due to withdrawal by subject	40	(8.3)	27	(5.6)
	Completed study treatment	295	(61.1)	341	(70.2)
	Translation not available in subjects language	0	(0.0)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
<p>Expected to complete questionnaire includes all subjects who do not have missing data due to a missing by design reason.</p> <p>Compliance is the proportion of subjects who completed the PRO questionnaire among those who are expected to complete the questionnaire at this time point, excluding those missing by design. All the other categories are defined as the proportion of subjects in the analysis population (N).</p> <p>Number of participants: full-analysis-set population</p> <p>Missing by design includes: death, discontinuation, translations not available, and no visit scheduled</p> <p>Database Cutoff Date: 04JAN2022</p>					

**Anhang 4-G1.2: Rücklaufquoten der EQ-5D VAS**

Tabelle 4G-2: Gründe für das Fehlen von Werten in der EQ-5D VAS

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
BASELINE	<b>Expected to Complete Questionnaires</b>	<b>482</b>	<b>(99.8)</b>	<b>483</b>	<b>(99.4)</b>
	Completed	456	(94.4)	466	(95.9)
	Compliance (% in those expected to complete questionnaires)	456	(94.6)	466	(96.5)
	Not completed	26	(5.4)	17	(3.5)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	14	(2.9)	7	(1.4)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	0	(0.0)	0	(0.0)
	Other	11	(2.3)	5	(1.0)
	With visit, no record	1	(0.2)	5	(1.0)
	<b>Missing by Design</b>	<b>1</b>	<b>(0.2)</b>	<b>3</b>	<b>(0.6)</b>
	Discontinued due to adverse event	0	(0.0)	0	(0.0)
	Discontinued due to lost to follow-up	0	(0.0)	0	(0.0)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	0	(0.0)	0	(0.0)
	Discontinued due to protocol violation	0	(0.0)	0	(0.0)
	Discontinued due to relapse/recurrence	0	(0.0)	0	(0.0)
	Discontinued due to withdrawal by subject	0	(0.0)	0	(0.0)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	3	(0.6)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 12	<b>Expected to Complete Questionnaires</b>	<b>482</b>	<b>(99.8)</b>	<b>486</b>	<b>(100.0)</b>
	Completed	420	(87.0)	442	(90.9)
	Compliance (% in those expected to complete questionnaires)	420	(87.1)	442	(90.9)
	Not completed	62	(12.8)	44	(9.1)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	18	(3.7)	10	(2.1)
	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	3	(0.6)	0	(0.0)
	Subject refused for other reasons	4	(0.8)	2	(0.4)
	Other	23	(4.8)	22	(4.5)
	With visit, no record	13	(2.7)	9	(1.9)
	<b>Missing by Design</b>	<b>1</b>	<b>(0.2)</b>	<b>0</b>	<b>(0.0)</b>
	Discontinued due to adverse event	0	(0.0)	0	(0.0)
	Discontinued due to lost to follow-up	0	(0.0)	0	(0.0)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	0	(0.0)	0	(0.0)
	Discontinued due to protocol violation	0	(0.0)	0	(0.0)
	Discontinued due to relapse/recurrence	0	(0.0)	0	(0.0)
	Discontinued due to withdrawal by subject	0	(0.0)	0	(0.0)
WEEK 24	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
	<b>Expected to Complete Questionnaires</b>	<b>460</b>	<b>(95.2)</b>	<b>471</b>	<b>(96.9)</b>
	Completed	395	(81.8)	407	(83.7)
	Compliance (% in those expected to complete questionnaires)	395	(85.9)	407	(86.4)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 24	Not completed	65	(13.5)	64	(13.2)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	24	(5.0)	18	(3.7)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	1	(0.2)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	1	(0.2)	0	(0.0)
	Subject refused for other reasons	6	(1.2)	7	(1.4)
	Other	18	(3.7)	19	(3.9)
	With visit, no record	15	(3.1)	19	(3.9)
	<b>Missing by Design</b>	<b>23</b>	<b>(4.8)</b>	<b>15</b>	<b>(3.1)</b>
	Discontinued due to adverse event	6	(1.2)	2	(0.4)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	0	(0.0)	0	(0.0)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	1	(0.2)	6	(1.2)
	Discontinued due to withdrawal by subject	11	(2.3)	3	(0.6)
	Completed study treatment	0	(0.0)	0	(0.0)
WEEK 36	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	1	(0.2)
	<b>Expected to Complete Questionnaires</b>	<b>439</b>	<b>(90.9)</b>	<b>449</b>	<b>(92.4)</b>
	Completed	355	(73.5)	385	(79.2)
	Compliance (% in those expected to complete questionnaires)	355	(80.9)	385	(85.7)
	Not completed	84	(17.4)	64	(13.2)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	28	(5.8)	25	(5.1)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 36	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	9	(1.9)	4	(0.8)
	Other	22	(4.6)	18	(3.7)
	With visit, no record	24	(5.0)	16	(3.3)
	<b>Missing by Design</b>	<b>44</b>	<b>(9.1)</b>	<b>37</b>	<b>(7.6)</b>
	Discontinued due to adverse event	12	(2.5)	2	(0.4)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	0	(0.0)
	Discontinued due to physician decision	1	(0.2)	0	(0.0)
	Discontinued due to protocol violation	3	(0.6)	1	(0.2)
	Discontinued due to relapse/recurrence	9	(1.9)	18	(3.7)
	Discontinued due to withdrawal by subject	15	(3.1)	14	(2.9)
	Completed study treatment	0	(0.0)	0	(0.0)
	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	3	(0.6)	0	(0.0)
WEEK 48	<b>Expected to Complete Questionnaires</b>	<b>413</b>	<b>(85.5)</b>	<b>426</b>	<b>(87.7)</b>
	Completed	356	(73.7)	391	(80.5)
	Compliance (% in those expected to complete questionnaires)	356	(86.2)	391	(91.8)
	Not completed	57	(11.8)	35	(7.2)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	10	(2.1)	5	(1.0)
	Subject in hospital or hospice	1	(0.2)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)

Treatment Visit	Category	Pembrolizumab N=483	Placebo N=486
		n	(%)
WEEK 48	Subject did not complete due to side effects of treatment	1	(0.2)
	Subject refused for other reasons	6	(1.2)
	Other	22	(4.6)
	With visit, no record	17	(3.5)
	<b>Missing by Design</b>	<b>70</b>	<b>(14.5)</b>
	Discontinued due to adverse event	20	(4.1)
	Discontinued due to lost to follow-up	0	(0.0)
	Discontinued due to non-compliance with study drug	0	(0.0)
	Discontinued due to physician decision	1	(0.2)
	Discontinued due to protocol violation	4	(0.8)
	Discontinued due to relapse/recurrence	20	(4.1)
	Discontinued due to withdrawal by subject	23	(4.8)
	Completed study treatment	0	(0.0)
	Translation not available in subjects language	1	(0.2)
	Subject died	0	(0.0)
	Visit not scheduled	1	(0.2)
WEEK 60	<b>Expected to Complete Questionnaires</b>	<b>376</b>	<b>(77.8)</b>
	Completed	315	(65.2)
	Compliance (% in those expected to complete questionnaires)	315	(83.8)
	Not completed	61	(12.6)
	Subject did not complete due to disease under study	0	(0.0)
	Not completed due to site staff error	16	(3.3)
	Subject in hospital or hospice	1	(0.2)
	Subject was physically unable to complete	1	(0.2)
	Subject lost to follow-up/unable to contact	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)
	Subject refused for other reasons	2	(0.4)
	Other	35	(7.2)
		34	(7.0)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 60	With visit, no record	6	(1.2)	2	(0.4)
	<b>Missing by Design</b>	<b>107</b>	<b>(22.2)</b>	<b>106</b>	<b>(21.8)</b>
	Discontinued due to adverse event	30	(6.2)	8	(1.6)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	3	(0.6)	1	(0.2)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	23	(4.8)	44	(9.1)
	Discontinued due to withdrawal by subject	27	(5.6)	16	(3.3)
	Completed study treatment	17	(3.5)	33	(6.8)
	Translation not available in subjects language	2	(0.4)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	1	(0.2)	0	(0.0)
WEEK 72	<b>Expected to Complete Questionnaires</b>	<b>337</b>	<b>(69.8)</b>	<b>353</b>	<b>(72.6)</b>
	Completed	293	(60.7)	307	(63.2)
	Compliance (% in those expected to complete questionnaires)	293	(86.9)	307	(87.0)
	Not completed	44	(9.1)	46	(9.5)
	Subject did not complete due to disease under study	0	(0.0)	1	(0.2)
	Not completed due to site staff error	9	(1.9)	20	(4.1)
	Subject in hospital or hospice	0	(0.0)	1	(0.2)
	Subject was physically unable to complete	1	(0.2)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	6	(1.2)	5	(1.0)
	Other	27	(5.6)	18	(3.7)
	With visit, no record	1	(0.2)	1	(0.2)
	<b>Missing by Design</b>	<b>146</b>	<b>(30.2)</b>	<b>133</b>	<b>(27.4)</b>
	Discontinued due to adverse event	32	(6.6)	11	(2.3)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 72	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	3	(0.6)	1	(0.2)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	22	(4.6)	48	(9.9)
	Discontinued due to withdrawal by subject	30	(6.2)	19	(3.9)
	Completed study treatment	54	(11.2)	50	(10.3)
	Translation not available in subjects language	1	(0.2)	1	(0.2)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
	<b>Expected to Complete Questionnaires</b>	<b>296</b>	<b>(61.3)</b>	<b>299</b>	<b>(61.5)</b>
WEEK 84	Completed	257	(53.2)	263	(54.1)
	Compliance (% in those expected to complete questionnaires)	257	(86.8)	263	(88.0)
	Not completed	39	(8.1)	36	(7.4)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	14	(2.9)	10	(2.1)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	1	(0.2)
	Subject lost to follow-up/unable to contact	1	(0.2)	1	(0.2)
	Subject did not complete due to side effects of treatment	1	(0.2)	0	(0.0)
	Subject refused for other reasons	8	(1.7)	1	(0.2)
	Other	15	(3.1)	22	(4.5)
	With visit, no record	0	(0.0)	1	(0.2)
	<b>Missing by Design</b>	<b>187</b>	<b>(38.7)</b>	<b>187</b>	<b>(38.5)</b>
	Discontinued due to adverse event	43	(8.9)	14	(2.9)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	8	(1.7)	3	(0.6)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 84	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	23	(4.8)	51	(10.5)
	Discontinued due to withdrawal by subject	30	(6.2)	24	(4.9)
	Completed study treatment	78	(16.1)	92	(18.9)
	Translation not available in subjects language	1	(0.2)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
WEEK 96	<b>Expected to Complete Questionnaires</b>	<b>267</b>	<b>(55.3)</b>	<b>278</b>	<b>(57.2)</b>
	Completed	238	(49.3)	249	(51.2)
	Compliance (% in those expected to complete questionnaires)	238	(89.1)	249	(89.6)
	Not completed	29	(6.0)	29	(6.0)
	Subject did not complete due to disease under study	1	(0.2)	0	(0.0)
	Not completed due to site staff error	9	(1.9)	10	(2.1)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	1	(0.2)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	2	(0.4)	5	(1.0)
	Other	16	(3.3)	13	(2.7)
	With visit, no record	1	(0.2)	0	(0.0)
	<b>Missing by Design</b>	<b>216</b>	<b>(44.7)</b>	<b>208</b>	<b>(42.8)</b>
	Discontinued due to adverse event	43	(8.9)	10	(2.1)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	7	(1.4)	2	(0.4)
	Discontinued due to protocol violation	3	(0.6)	1	(0.2)
	Discontinued due to relapse/recurrence	24	(5.0)	52	(10.7)
	Discontinued due to withdrawal by subject	33	(6.8)	23	(4.7)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
WEEK 96	Completed study treatment	105	(21.7)	116	(23.9)
	Translation not available in subjects language	1	(0.2)	2	(0.4)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)
MONTH 30	<b>Expected to Complete Questionnaires</b>	<b>126</b>	<b>(26.1)</b>	<b>135</b>	<b>(27.8)</b>
	Completed	112	(23.2)	125	(25.7)
	Compliance (% in those expected to complete questionnaires)	112	(88.9)	125	(92.6)
	Not completed	14	(2.9)	10	(2.1)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	7	(1.4)	3	(0.6)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	1	(0.2)	1	(0.2)
	Other	6	(1.2)	6	(1.2)
	With visit, no record	0	(0.0)	0	(0.0)
	<b>Missing by Design</b>	<b>357</b>	<b>(73.9)</b>	<b>351</b>	<b>(72.2)</b>
	Discontinued due to adverse event	67	(13.9)	19	(3.9)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	9	(1.9)	3	(0.6)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	24	(5.0)	55	(11.3)
	Discontinued due to withdrawal by subject	38	(7.9)	24	(4.9)
	Completed study treatment	214	(44.3)	247	(50.8)
	Translation not available in subjects language	1	(0.2)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486	
		n	(%)	n	(%)
MONTH 30	Visit not scheduled	0	(0.0)	0	(0.0)
MONTH 36	<b>Expected to Complete Questionnaires</b>	<b>27</b>	<b>(5.6)</b>	<b>28</b>	<b>(5.8)</b>
	Completed	26	(5.4)	27	(5.6)
	Compliance (% in those expected to complete questionnaires)	26	(96.3)	27	(96.4)
	Not completed	1	(0.2)	1	(0.2)
	Subject did not complete due to disease under study	0	(0.0)	0	(0.0)
	Not completed due to site staff error	1	(0.2)	0	(0.0)
	Subject in hospital or hospice	0	(0.0)	0	(0.0)
	Subject was physically unable to complete	0	(0.0)	0	(0.0)
	Subject lost to follow-up/unable to contact	0	(0.0)	0	(0.0)
	Subject did not complete due to side effects of treatment	0	(0.0)	0	(0.0)
	Subject refused for other reasons	0	(0.0)	0	(0.0)
	Other	0	(0.0)	1	(0.2)
	With visit, no record	0	(0.0)	0	(0.0)
	<b>Missing by Design</b>	<b>456</b>	<b>(94.4)</b>	<b>458</b>	<b>(94.2)</b>
	Discontinued due to adverse event	84	(17.4)	22	(4.5)
	Discontinued due to lost to follow-up	0	(0.0)	1	(0.2)
	Discontinued due to non-compliance with study drug	0	(0.0)	1	(0.2)
	Discontinued due to physician decision	10	(2.1)	4	(0.8)
	Discontinued due to protocol violation	4	(0.8)	1	(0.2)
	Discontinued due to relapse/recurrence	24	(5.0)	61	(12.6)
	Discontinued due to withdrawal by subject	40	(8.3)	27	(5.6)
	Completed study treatment	294	(60.9)	341	(70.2)
	Translation not available in subjects language	0	(0.0)	0	(0.0)
	Subject died	0	(0.0)	0	(0.0)
	Visit not scheduled	0	(0.0)	0	(0.0)

Expected to complete questionnaire includes all subjects who do not have missing data due to a missing by design reason.

Compliance is the proportion of subjects who completed the PRO questionnaire among those who are expected to complete the questionnaire at this time point,

Treatment Visit	Category	Pembrolizumab N=483		Placebo N=486		
		n	(%)	n	(%)	
excluding those missing by design. All the other categories are defined as the proportion of subjects in the analysis population (N).						
Number of participants: full-analysis-set population						
Missing by design includes: death, discontinuation, translations not available, and no visit scheduled						
Database Cutoff Date: 04JAN2022						

## Anhang 4-G2: Kaplan-Meier-Kurven der Subgruppen mit signifikantem Interaktionstest ( $p < 0,05$ ) (KEYNOTE 716)

Im Folgenden werden ergänzend zu Abschnitt 4.3.1.3.2.2 die Kaplan-Meier-Kurven der Subgruppenanalysen, für die ein signifikanter Interaktionstest ( $p < 0,05$ ) vorliegt, dargestellt.

Alle Ergebnisse beziehen sich auf den Datenschnitt vom 04.01.2022 (Interimsanalyse III).

### Anhang 4-G2.1: Nebenwirkungen

#### *Unerwünschte Ereignisse*

##### *Schwere unerwünschten Ereignissen (CTCAE-Grad 3-5)*

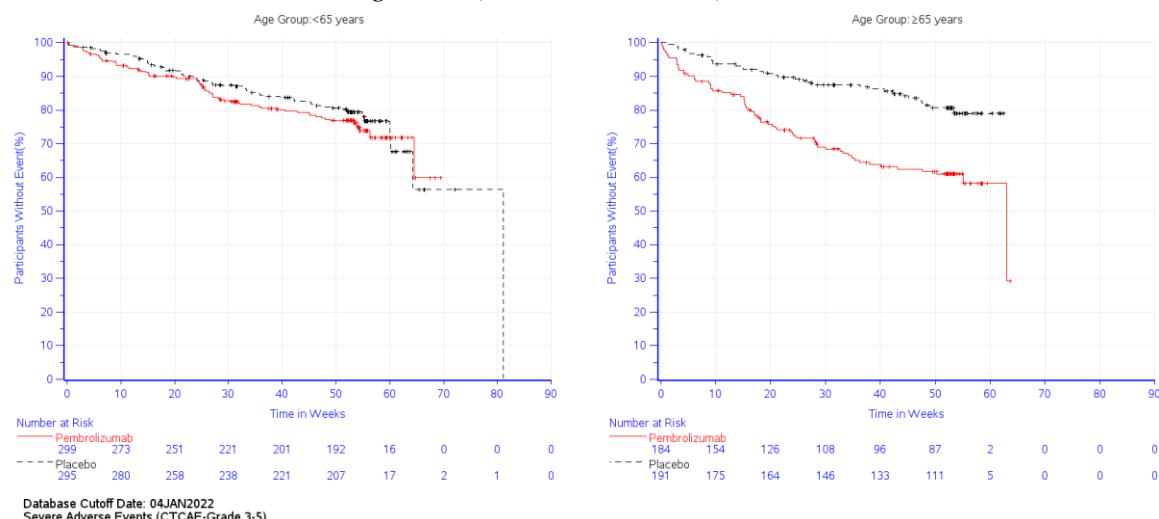


Abbildung 4G-1: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Alter (Jahre) für den Endpunkt Schwere unerwünschte Ereignisse (CTCAE-Grad 3-5)

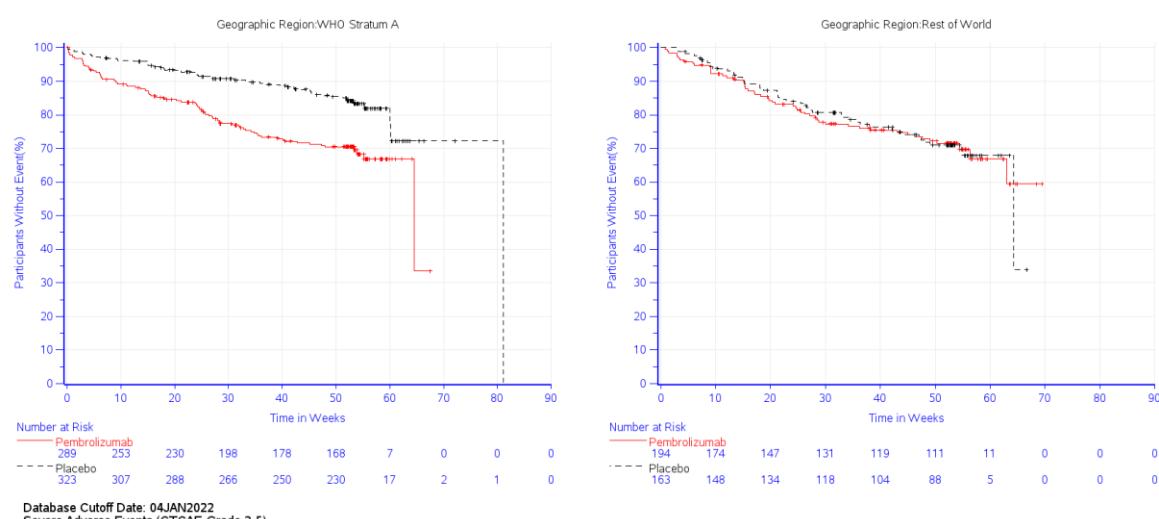


Abbildung 4G-2: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Region für den Endpunkt Schwere unerwünschte Ereignisse (CTCAE-Grad 3-5)

### Therapieabbruch wegen Unerwünschter Ereignisse

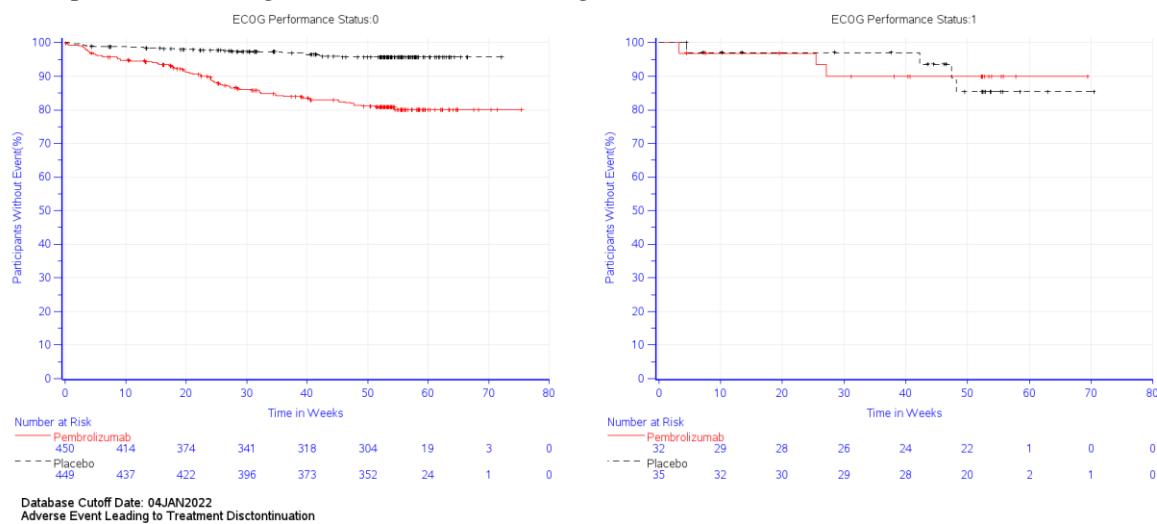


Abbildung 4G-3: Kaplan-Meier-Kurve für die Subgruppenanalyse nach ECOG-Leistungsstatus für den Endpunkt Therapieabbruch wegen Unerwünschter Ereignisse

### Unerwünschte Ereignisse (SOC und PT)

#### Unerwünschte Ereignisse (SOC und PT)

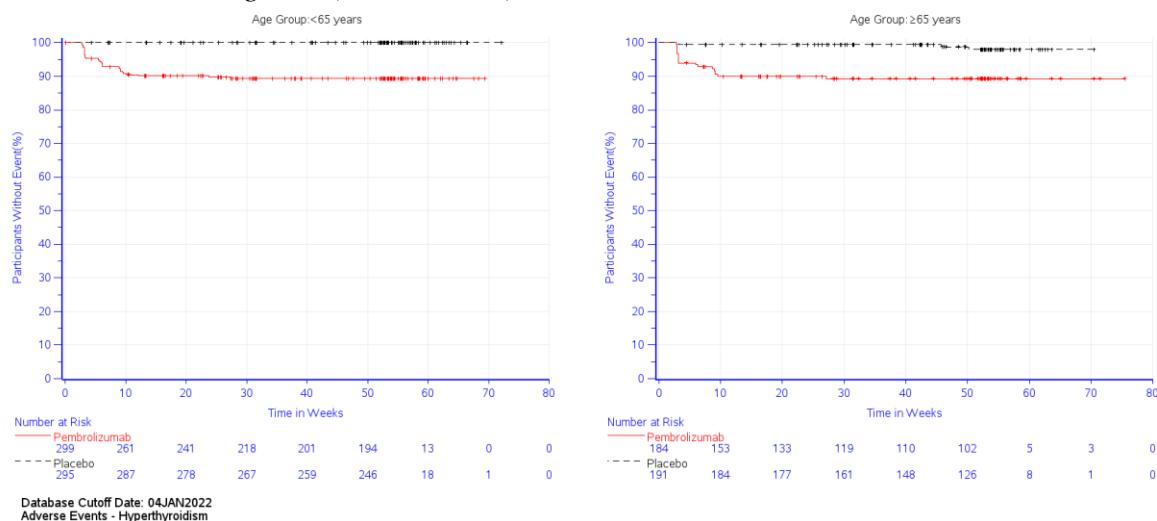


Abbildung 4G-4: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Alter (Jahre) für den Endpunkt Unerwünschte Ereignisse gesamt (SOC und PT) für den PT „Hyperthyreose“ (SOC „Endokrine Erkrankungen“)

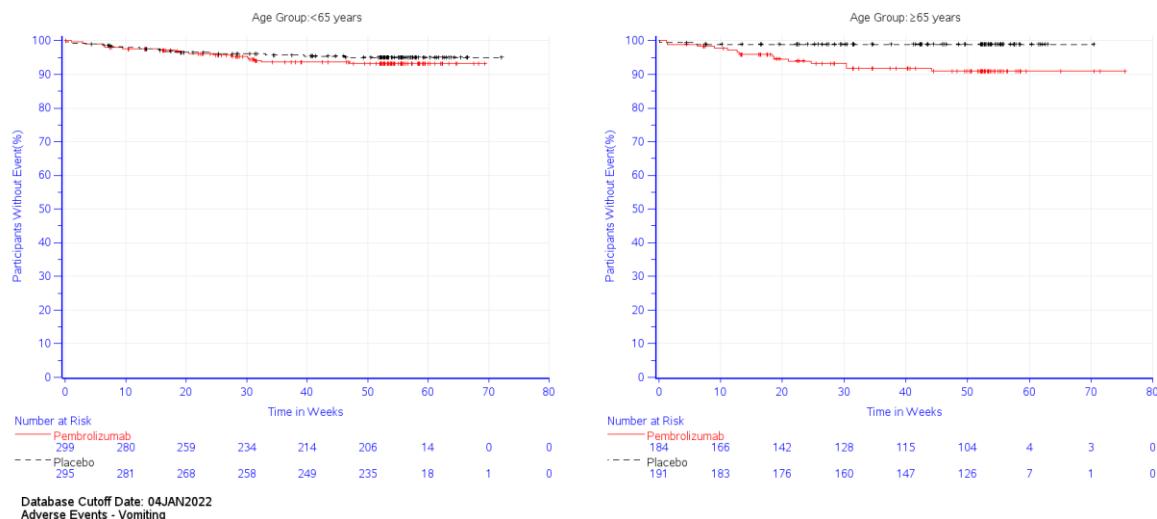


Abbildung 4G-5: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Alter für den Endpunkt Unerwünschte Ereignisse gesamt (SOC und PT) für den PT „Erbrechen“ (SOC „Erkrankungen des Gastrointestinaltrakt“)

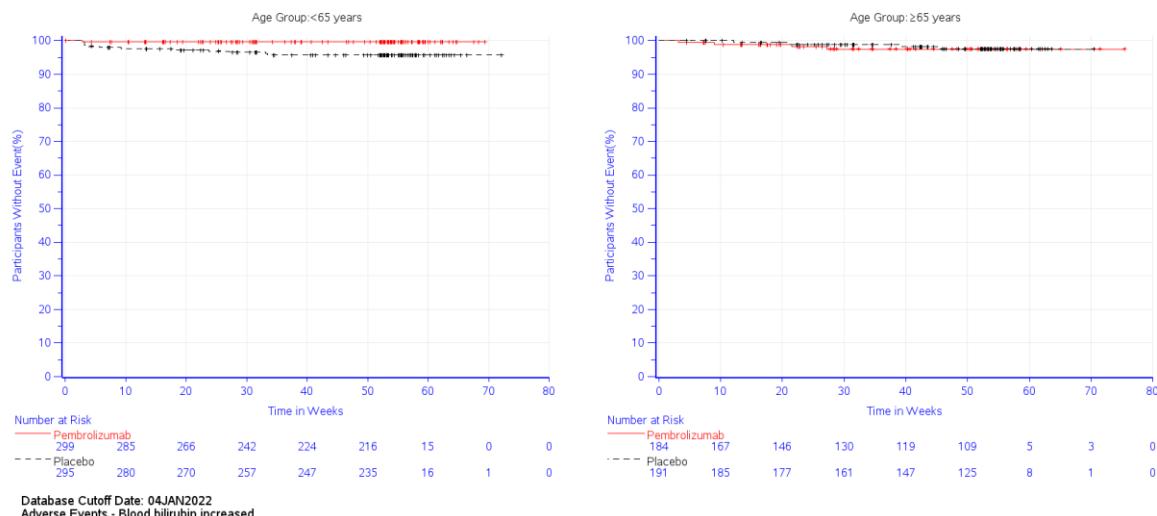


Abbildung 4G-6: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Alter für den Endpunkt Unerwünschte Ereignisse gesamt (SOC und PT) für den PT „Bilirubin im Blut erhöht“ (SOC „Untersuchungen“)

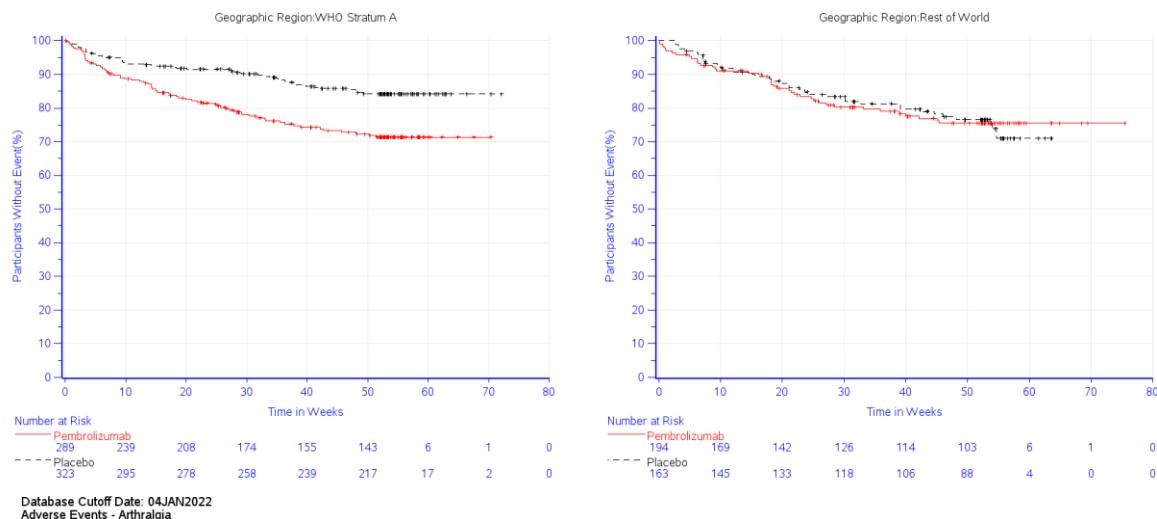


Abbildung 4G-7: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Region für den Endpunkt Unerwünschte Ereignisse gesamt (SOC und PT) für den PT „Arthralgie“ (SOC „Skelettmuskulatur-, Bindegewebs- und Knochenerkrankungen“)

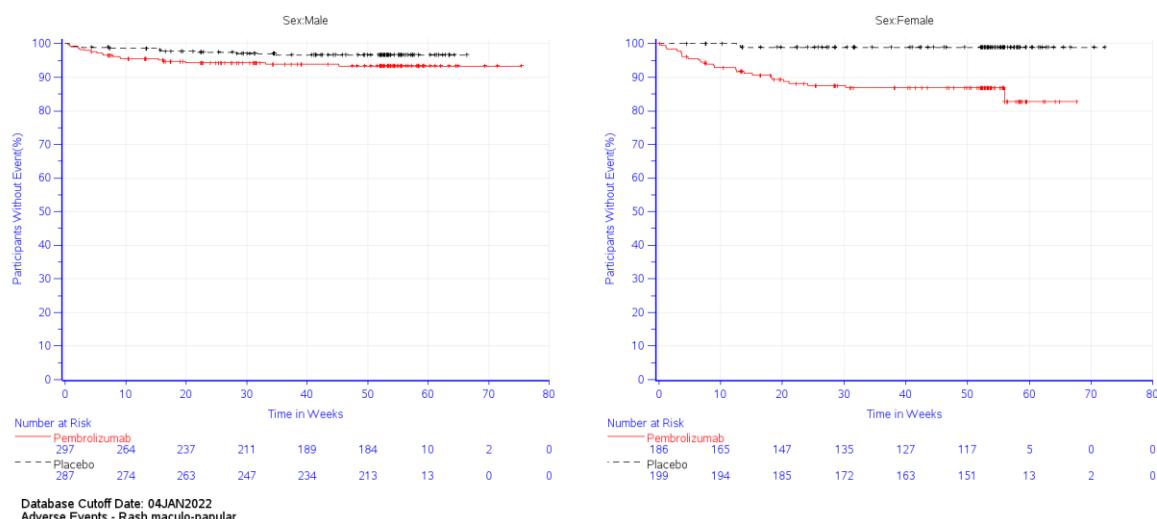


Abbildung 4G-8: Kaplan-Meier-Kurve für die Subgruppenanalyse nach Geschlecht für den Endpunkt Unerwünschte Ereignisse gesamt (SOC und PT) für den PT „Ausschlag makulo-papulöse“ (SOC „Erkrankungen der Haut und des Unterhautzellgewebes“)

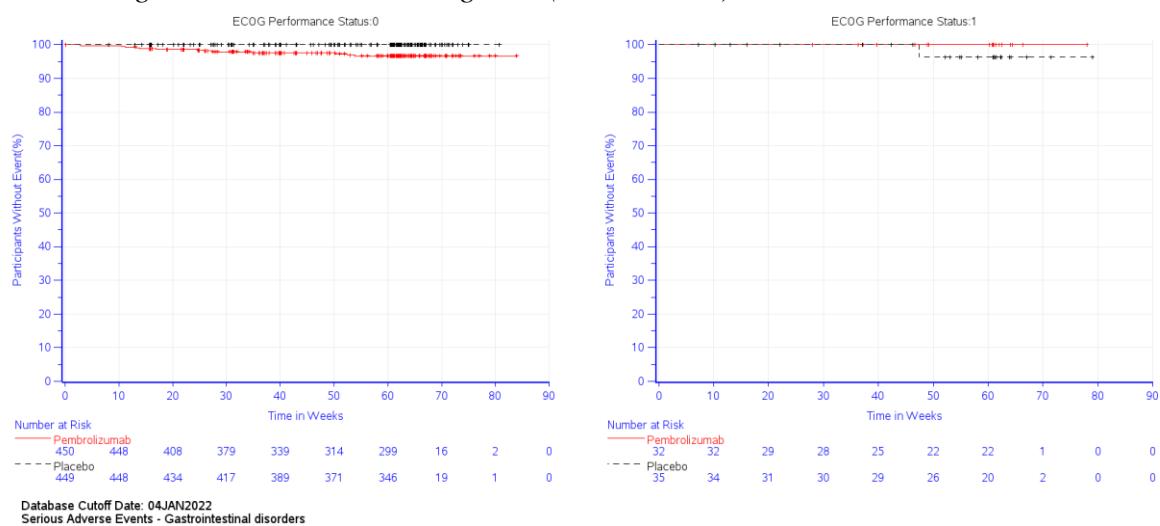
*Schwerwiegende unerwünschte Ereignisse (SOC und PT)*

Abbildung 4G-9: Kaplan-Meier-Kurve für die Subgruppenanalyse nach ECOG-Leistungsstatus für den Endpunkt Schwerwiegende unerwünschte Ereignisse (SOC und PT) für die SOC „Erkrankungen des Gastrointestinaltrakts“

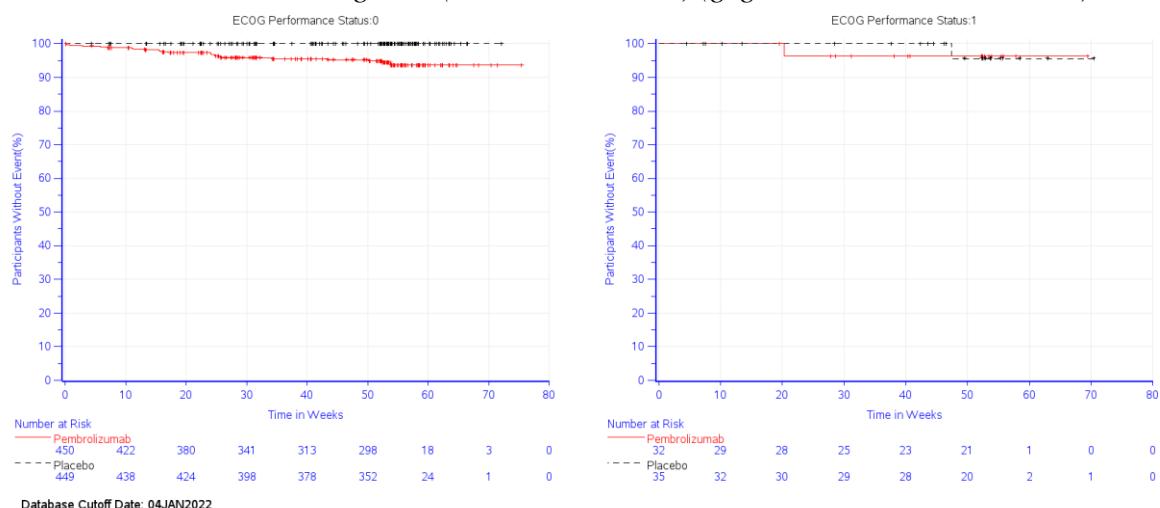
*Schwere unerwünschte Ereignisse (CTCAE-Grad 3-5) (gegliedert nach SOC und PT)*

Abbildung 4G-10: Kaplan-Meier-Kurve für die Subgruppenanalyse nach ECOG-Leistungsstatus für den Endpunkt Schwerwiegende unerwünschte Ereignisse (SOC und PT) für die SOC „Erkrankungen des Gastrointestinaltrakts“

### Anhang 4-G3: Ergebnisse der Subgruppen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) (KEYNOTE 716)

Im Folgenden werden ergänzend zu Abschnitt 4.3.1.3.2.2 die Ergebnisse der Subgruppenanalysen, für die ein nicht signifikanter Interaktionstest ( $p \geq 0,05$ ) vorliegt, dargestellt.

Alle Ergebnisse beziehen sich auf den Datenschnitt vom 04.01.2022 (Interimsanalyse III), lediglich der ergänzende Endpunkt Progressions- /Rezidivfreies Überleben 2 basiert auf dem Datenschnitt vom 21.06.2021 (Interimsanalyse II), da für die Interimsanalyse III keine Auswertung geplant war.

#### Anhang 4-G3.1: Morbidität

##### *Rezidivfreies Überleben*

Tabelle 4G-3: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Rezidivfreies Überleben (INV, Hauptanalyse) aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo			Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Recurrence-Free Survival (INV Primary Censoring Rule)	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>e</sup>	
<b>Sex</b>									
Male	300	60 (20.0)	37.2 [-; -]	289	92 (31.8)	Not reached [32.2; -]	0.57 [0.41; 0.79]	< 0.001	0.255
Female	187	35 (18.7)	Not reached [-; -]	200	47 (23.5)	Not reached [-; -]	0.78 [0.50; 1.21]	0.265	
<b>Age Group</b>									
< 65	303	50 (16.5)	Not reached [-; -]	295	69 (23.4)	Not reached [-; -]	0.69 [0.48; 0.99]	0.047	0.628
≥ 65	184	45 (24.5)	37.2 [-; -]	194	70 (36.1)	Not reached [29.5; -]	0.60 [0.41; 0.88]	0.009	
<b>Severity of disease: T-Stage</b>									
IIB T3b	200	30 (15.0)	Not reached [-; -]	200	50 (25.0)	Not reached [-; -]	0.57 [0.36; 0.89]	0.014	0.447
IIB T4a	109	16 (14.7)	37.2 [-; -]	116	31 (26.7)	Not reached [29.9; -]	0.48 [0.26; 0.90]	0.021	
IIC T4b	171	45 (26.3)	Not reached [34.3; -]	169	56 (33.1)	Not reached [33.3; -]	0.76 [0.51; 1.13]	0.173	
<b>Geographic Region</b>									
WHO Stratum A <sup>g</sup>	292	56 (19.2)	37.2 [-; -]	326	96 (29.4)	Not reached [33.3; -]	0.60 [0.43; 0.83]	0.002	0.426
Rest of World	195	39 (20.0)	Not reached [-; -]	163	43 (26.4)	Not reached [-; -]	0.73 [0.47; 1.13]	0.158	
<b>ECOG Performance Status</b>									
0	454	87 (19.2)	37.2 [-; -]	452	123 (27.2)	Not reached [-; -]	0.67 [0.51; 0.88]	0.005	0.546
1	32	8 (25.0)	Not reached [24.9; -]	35	16 (45.7)	25.3 [16.1; -]	0.55 [0.23; 1.28]	0.163	

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>	
	Recurrence-Free Survival (INV Primary Censoring Rule)	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
<b>Race</b>									
Nonwhite skin colour	10 (10.0)	1 [13.0; -]	Not reached	5 (0.0)	0 [-; -]	Not reached	n.a. [n.a.; n.a.]	0.505	0.272
White skin colour	435 (20.2)	88 [-; -]	37.2	439 (28.2)	124 [-; -]	Not reached	0.69 [0.52; 0.91]	0.008	

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: intention-to-treat population  
 c: From the product-limit (Kaplan-Meier) method for censored data  
 d: Based on Cox regression model with Efron's method of tie handling with treatment as a covariate, using Wald confidence interval  
 e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)  
 f: Based on Cox regression model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)  
 g: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 ECOG: Eastern Cooperative Oncology Group; INV: Investigator; n.a.: not applicable (when estimation not possible); WHO: World Health Organization

### Fernmetastasenfreies Überleben

Tabelle 4G-4: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Fernmetastasenfreies Überleben (INV, Hauptanalyse) aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>	
	Distant Metastasis-Free Survival (INV Primary Analysis)	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
<b>Sex</b>									
Male	300 (13.7)	41 [-; -]	Not reached	289 (22.1)	64 [-; -]	Not reached	0.58 [0.39; 0.86]	0.007	0.417
Female	187 (11.8)	22 [-; -]	Not reached	200 (15.5)	31 [-; -]	Not reached	0.76 [0.44; 1.32]	0.336	
<b>Age Group</b>									
< 65	303 (12.2)	37 [-; -]	Not reached	295 (15.3)	45 [-; -]	Not reached	0.79 [0.51; 1.23]	0.300	0.188
≥ 65	184 (14.1)	26 [-; -]	Not reached	194 (25.8)	50 [-; -]	Not reached	0.51 [0.32; 0.82]	0.006	
<b>Severity of disease: T-Stage</b>									
IIB T3b	200 (11.5)	23 [-; -]	Not reached	200 (15.5)	31 [-; -]	Not reached	0.71 [0.41; 1.22]	0.216	0.535
IIB T4a	109 (7.3)	8 [-; -]	Not reached	116 (17.2)	20 [-; -]	Not reached	0.42 [0.19; 0.96]	0.040	
IIC T4b	171 (17.5)	30 [-; -]	Not reached	169 (24.3)	41 [-; -]	Not reached	0.70 [0.44; 1.13]	0.142	
<b>Geographic Region</b>									
WHO Stratum A <sup>g</sup>	292 (15.1)	44 [-; -]	Not reached	326 (20.6)	67 [-; -]	Not reached	0.70 [0.48; 1.03]	0.070	0.503
Rest of World	195 (9.7)	19 [-; -]	Not reached	163 (17.2)	28 [-; -]	Not reached	0.55 [0.31; 0.98]	0.044	

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
Distant Metastasis-Free Survival (INV Primary Analysis)	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 % -CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 % -CI]	Hazard Ratio [95 % -CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
ECOG Performance Status								
0	454 (13.2)	60 [-; -]	452	85 (18.8)	Not reached [-; -]	0.69 [0.49; 0.95]	0.026	0.202
1	32 (9.4)	3 [-; -]	35	10 (28.6)	Not reached [27.6; -]	0.30 [0.08; 1.09]	0.068	

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: intention-to-treat population  
 c: From the product-limit (Kaplan-Meier) method for censored data  
 d: Based on Cox regression model with Efron's method of tie handling with treatment as a covariate, using Wald confidence interval  
 e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)  
 f: Based on Cox regression model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)  
 g: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 ECOG: Eastern Cooperative Oncology Group; INV: Investigator; WHO: World Health Organization

### Zeit bis zur ersten Folgetherapie oder Tod

Tabelle 4G-5: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Zeit bis zur ersten Folgetherapie oder Tod aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
Subsequent Oncologic Therapy or Death	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 % -CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 % -CI]	Hazard Ratio [95 % -CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
Sex								
Male	300 (15.7)	47 [-; -]	289	82 (28.4)	Not reached [30.5; -]	0.49 [0.34; 0.71]	< 0.001	0.741
Female	187 (11.2)	21 [-; -]	200	40 (20.0)	Not reached [-; -]	0.56 [0.33; 0.95]	0.031	
Age Group								
< 65	303 (11.6)	35 [-; -]	295	56 (19.0)	Not reached [-; -]	0.59 [0.39; 0.91]	0.016	0.391
≥ 65	184 (17.9)	33 [-; -]	194	66 (34.0)	33.7 [30.0; -]	0.46 [0.30; 0.70]	< 0.001	
Severity of disease: T-Stage								
IIB T3b	200 (9.5)	19 [-; -]	200	46 (23.0)	Not reached [-; -]	0.39 [0.23; 0.66]	< 0.001	0.171
IIB T4a	109 (10.1)	11 [36.6; -]	116	28 (24.1)	Not reached [30.2; -]	0.33 [0.16; 0.70]	0.004	
IIC T4b	171 (19.9)	34 [35.8; -]	169	46 (27.2)	Not reached [-; -]	0.69 [0.44; 1.08]	0.102	
Geographic Region								
WHO Stratum A <sup>g</sup>	292 (13.7)	40 [36.6; -]	326	82 (25.2)	Not reached [-; -]	0.49 [0.33; 0.72]	< 0.001	0.613
Rest of World	195 (14.4)	28 [-; -]	163	40 (24.5)	Not reached [33.7; -]	0.58 [0.36; 0.93]	0.026	

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Subsequent Oncologic Therapy or Death	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
ECOG Performance Status								
0	454 (13.9)	63 [36.6; -]	36.6 [36.6; -]	452 (24.3)	110 [-; -]	Not reached [-; -]	0.54 [0.39; 0.73]	< 0.001 0.715
1	32 (15.6)	5 [24.9; -]	Not reached [24.9; -]	35 (34.3)	12 [21.7; -]	Not reached [21.7; -]	0.47 [0.16; 1.33]	0.152

<sup>a</sup>: Database Cutoff Date: 04JAN2022  
<sup>b</sup>: Number of participants: intention-to-treat population  
<sup>c</sup>: From the product-limit (Kaplan-Meier) method for censored data  
<sup>d</sup>: Based on Cox regression model with Efron's method of tie handling with treatment as a covariate, using Wald confidence interval  
<sup>e</sup>: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)  
<sup>f</sup>: Based on Cox regression model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)  
<sup>g</sup>: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
ECOG: Eastern Cooperative Oncology Group; WHO: World Health Organization

### Progressions-/Rezidivfreies Überleben 2

Tabelle 4G-6: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Progressions-/Rezidivfreies Überleben 2 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Progression/ Recurrence-Free Survival <sup>2</sup> (INV Primary Censoring Rule)	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	
Sex								
Male	300 (7.7)	23 [-; -]	Not reached [-; -]	289 (8.7)	25 [-; -]	Not reached [-; -]	0.87 [0.50; 1.54]	0.640 0.836
Female	187 (7.5)	14 [-; -]	Not reached [-; -]	200 (8.0)	16 [-; -]	Not reached [-; -]	0.97 [0.47; 1.99]	0.937
Age Group								
< 65	303 (5.0)	15 [-; -]	Not reached [-; -]	295 (5.8)	17 [-; -]	Not reached [-; -]	0.88 [0.44; 1.77]	0.727 0.923
≥ 65	184 (12.0)	22 [26.7; -]	Not reached [26.7; -]	194 (12.4)	24 [-; -]	Not reached [-; -]	0.93 [0.52; 1.65]	0.798
Severity of disease: T-Stage								
IIB T3b	200 (5.5)	11 [-; -]	Not reached [-; -]	200 (6.5)	13 [-; -]	Not reached [-; -]	0.86 [0.39; 1.92]	0.717 0.969
IIB T4a	109 (6.4)	7 [24.9; -]	Not reached [24.9; -]	116 (6.9)	8 [-; -]	Not reached [-; -]	1.01 [0.37; 2.80]	0.980
IIC T4b	171 (10.5)	18 [-; -]	Not reached [-; -]	169 (10.7)	18 [-; -]	Not reached [-; -]	0.96 [0.50; 1.84]	0.900
Geographic Region								
WHO Stratum A <sup>g</sup>	292 (8.2)	24 [-; -]	Not reached [-; -]	326 (8.3)	27 [-; -]	Not reached [-; -]	0.98 [0.56; 1.69]	0.935 0.663
Rest of World	195 (6.7)	13 [-; -]	Not reached [-; -]	163 (8.6)	14 [-; -]	Not reached [-; -]	0.81 [0.38; 1.72]	0.576

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Progression/ Recurrence-Free Survival (INV Primary Censoring Rule)	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Months [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
ECOG Performance Status								
0	454 (7.5)	34 [-; -]	Not reached	452 (7.7)	35 [-; -]	Not reached	0.97 [0.61; 1.56]	0.902
1	32 (9.4)	3 [24.9; -]	Not reached	35 (17.1)	6 [23.8; -]	Not reached	0.48 [0.12; 1.94]	0.300
a: Database Cutoff Date: 21JUN2021								
b: Number of participants: intention-to-treat population								
c: From the product-limit (Kaplan-Meier) method for censored data								
d: Based on Cox regression model with Efron's method of tie handling with treatment as a covariate, using Wald confidence interval								
e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)								
f: Based on Cox regression model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)								
g: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom								
ECOG: Eastern Cooperative Oncology Group; INV: Investigator; WHO: World Health Organization								

**Krankheitssymptomatik und Gesundheitszustand****EORTC QLQ-C30*****EORTC QLQ-C30: Symptomskala Erschöpfung***

Tabelle 4G-7: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Erschöpfung des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	EORTC QLQ-C30 Fatigue	N <sup>b</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
					Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>Sex</b>								
Male								
Pembrolizumab	297	269	11.40 (15.07)	7.05 (0.80)	3.96	< 0.001	0.24	0.461
Placebo	287	270	11.32 (16.41)	3.09 (0.80)	[1.75; 6.18]		[0.10; 0.37]	
Female								
Pembrolizumab	186	161	14.56 (18.56)	8.03 (1.26)	2.39	0.170	-	
Placebo	199	179	19.06 (21.40)	5.64 (1.19)	[-1.03; 5.81]			
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	13.23 (17.39)	7.98 (0.92)	3.95	0.002	0.21	0.465
Placebo	295	270	15.19 (19.48)	4.03 (0.92)	[1.40; 6.51]		[0.07; 0.34]	
≥ 65								
Pembrolizumab	184	163	11.52 (14.96)	6.50 (1.03)	2.33	0.103	-	
Placebo	191	179	13.22 (18.05)	4.17 (0.99)	[-0.47; 5.14]			
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	12.63 (16.69)	7.77 (1.04)	4.22	0.004	0.23	0.682
Placebo	200	184	13.10 (17.64)	3.55 (1.02)	[1.35; 7.09]		[0.07; 0.39]	
IIB T4a								
Pembrolizumab	107	99	13.58 (16.23)	7.68 (1.47)	2.23	0.273	-	
Placebo	116	108	15.23 (20.19)	5.45 (1.39)	[-1.77; 6.22]			
IIC T4b								
Pembrolizumab	170	152	11.92 (16.63)	6.99 (1.18)	3.39	0.043	0.19	
Placebo	169	156	15.31 (19.57)	3.60 (1.18)	[0.10; 6.67]		[0.01; 0.37]	
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>								
Pembrolizumab	289	260	12.91 (16.53)	8.60 (0.89)	4.77	< 0.001	0.26	0.098
Placebo	323	302	15.49 (19.84)	3.83 (0.83)	[2.38; 7.15]		[0.13; 0.38]	
Rest of World								
Pembrolizumab	194	170	12.09 (16.52)	5.89 (1.10)	1.38	0.395	-	

Study: KEYNOTE 716 <sup>a</sup>				Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]			
EORTC QLQ-C30 Fatigue	N <sup>b</sup>								
Placebo	163	147	12.17 (16.72)	4.51 (1.18)	[-1.80; 4.56]				
<b>ECOG Performance Status</b>									
0	Pembrolizumab	450	403	12.43 (16.39)	7.33 (0.72)	3.24	0.001	0.18	0.575
	Placebo	449	417	14.23 (18.86)	4.09 (0.71)	[1.26; 5.22]		[0.07; 0.28]	
1	Pembrolizumab	32	27	14.81 (18.49)	9.69 (2.55)	5.40	0.128	-	
	Placebo	35	31	15.77 (19.62)	4.29 (2.40)	[-1.60; 12.41]			
a: Database Cutoff Date: 04JAN2022									
b: Number of participants: full-analysis-set population									
c: Number of participants with data available for analysis									
d: Mean and SD at baseline are calculated based on number of participants with data available for analysis									
e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed									
f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero									
g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed									
h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom									
CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization									

### *EORTC QLQ-C30: Symptomskala Übelkeit und Erbrechen*

Tabelle 4G-8: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Übelkeit und Erbrechen des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>				Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]			
EORTC QLQ-C30 Nausea and Vomiting	N <sup>b</sup>								
Sex									
Male	Pembrolizumab	297	269	1.05 (5.18)	1.49 (0.28)	0.54	0.177	-	0.714
	Placebo	287	270	0.62 (3.47)	0.94 (0.29)	[-0.25; 1.34]			
Female	Pembrolizumab	186	161	1.24 (6.60)	2.68 (0.61)	0.29	0.734	-	
	Placebo	199	179	2.14 (7.07)	2.39 (0.58)	[-1.37; 1.94]			
<b>Age Group</b>									
< 65	Pembrolizumab	299	267	1.56 (6.98)	2.11 (0.41)	0.39	0.505	-	0.977
	Placebo	295	270	1.54 (5.98)	1.72 (0.41)	[-0.76; 1.54]			
≥ 65	Pembrolizumab	184	163	0.41 (2.59)	1.59 (0.35)	0.26	0.590	-	
	Placebo	191	179	0.74 (3.88)	1.33 (0.34)	[-0.70; 1.22]			

Study: KEYNOTE 716 <sup>a</sup>				Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
EORTC QLQ-C30 Nausea and Vomiting	N <sup>b</sup>						
<b>Severity of disease: T-Stage</b>							
IIB T3b							
Pembrolizumab	199	175	1.14 (4.59)	1.85 (0.39)	0.48 [-0.61; 1.56]	0.388	- 0.749
Placebo	200	184	1.00 (4.98)	1.37 (0.39)			
IIB T4a							
Pembrolizumab	107	99	1.35 (7.78)	1.66 (0.75)	-0.18 [-2.23; 1.87]	0.863	-
Placebo	116	108	1.39 (6.50)	1.84 (0.71)			
IIC T4b							
Pembrolizumab	170	152	0.99 (5.50)	2.14 (0.47)	0.64 [-0.67; 1.94]	0.338	-
Placebo	169	156	1.39 (4.62)	1.50 (0.47)			
<b>Geographic Region</b>							
WHO Stratum A <sup>h</sup>							
Pembrolizumab	289	260	1.22 (6.52)	2.20 (0.38)	0.41 [-0.62; 1.44]	0.431	- 0.966
Placebo	323	302	1.10 (5.14)	1.78 (0.36)			
Rest of World							
Pembrolizumab	194	170	0.98 (4.33)	1.46 (0.45)	0.42 [-0.88; 1.73]	0.523	-
Placebo	163	147	1.47 (5.49)	1.04 (0.49)			
<b>ECOG Performance Status</b>							
0							
Pembrolizumab	450	403	1.20 (5.93)	1.76 (0.30)	0.27 [-0.55; 1.10]	0.519	- 0.261
Placebo	449	417	1.24 (5.21)	1.49 (0.30)			
1							
Pembrolizumab	32	27	0.00 (0.00)	4.32 (1.50)	1.71 [-2.44; 5.86]	0.412	-
Placebo	35	31	1.08 (5.99)	2.61 (1.41)			

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: full-analysis-set population  
 c: Number of participants with data available for analysis  
 d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
 e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
 g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

### EORTC QLQ-C30: Symptomskala Schmerzen

Tabelle 4G-9: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Schmerzen des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>				Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
EORTC QLQ-C30 Pain	N <sup>b</sup>						
<b>Sex</b>							
Male							
Pembrolizumab	297	269	10.16 (17.58)	4.59 (0.72)	3.52 < 0.001	0.21	0.243

Study: KEYNOTE 716 <sup>a</sup>				Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
EORTC QLQ-C30 Pain	N <sup>b</sup>						
Placebo	287	270	10.43 (17.40)	1.08 (0.72)	[1.51; 5.52]	[0.09; 0.33]	
Female							
Pembrolizumab	186	161	12.53 (19.63)	3.77 (1.24)	1.33	0.439	-
Placebo	199	179	15.83 (21.22)	2.45 (1.18)	[-2.04; 4.70]		
<b>Age Group</b>							
< 65							
Pembrolizumab	299	267	11.17 (17.79)	4.50 (0.87)	3.23	0.009	0.17
Placebo	295	270	13.33 (20.10)	1.27 (0.87)	[0.81; 5.65]	[0.04; 0.30]	
≥ 65							
Pembrolizumab	184	163	10.84 (19.38)	3.81 (0.95)	1.60	0.225	-
Placebo	191	179	11.45 (17.69)	2.20 (0.91)	[-0.99; 4.19]		
<b>Severity of disease: T-Stage</b>							
IIB T3b							
Pembrolizumab	199	175	12.00 (18.10)	4.33 (0.93)	3.59	0.006	0.21
Placebo	200	184	10.51 (17.02)	0.74 (0.91)	[1.03; 6.15]	[0.06; 0.35]	
IIB T4a							
Pembrolizumab	107	99	9.43 (15.46)	5.63 (1.40)	3.21	0.098	-
Placebo	116	108	13.27 (20.09)	2.42 (1.33)	[-0.60; 7.02]		
IIC T4b							
Pembrolizumab	170	152	11.07 (20.47)	3.38 (1.17)	1.56	0.350	-
Placebo	169	156	14.21 (20.37)	1.82 (1.18)	[-1.71; 4.83]		
<b>Geographic Region</b>							
WHO Stratum A <sup>h</sup>							
Pembrolizumab	289	260	10.19 (16.76)	5.09 (0.86)	2.53	0.032	0.14
Placebo	323	302	12.03 (18.49)	2.56 (0.80)	[0.22; 4.84]	[0.01; 0.26]	
Rest of World							
Pembrolizumab	194	170	12.35 (20.62)	2.87 (0.99)	3.15	0.030	0.18
Placebo	163	147	13.72 (20.52)	-0.28 (1.06)	[0.31; 5.99]	[0.02; 0.35]	
<b>ECOG Performance Status</b>							
0							
Pembrolizumab	450	403	10.71 (18.22)	4.22 (0.67)	2.39	0.012	0.13
Placebo	449	417	12.23 (18.80)	1.83 (0.67)	[0.53; 4.25]	[0.03; 0.23]	
1							
Pembrolizumab	32	27	16.05 (20.40)	5.29 (2.49)	6.58	0.061	-
Placebo	35	31	15.59 (21.92)	-1.29 (2.36)	[-0.30; 13.46]		

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>			
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup>	p-Value <sup>e</sup>				
EORTC QLQ-C30 Pain	N <sup>b</sup>			Mean Difference <sup>f</sup>	[95 %-CI]				
a: Database Cutoff Date: 04JAN2022									
b: Number of participants: full-analysis-set population									
c: Number of participants with data available for analysis									
d: Mean and SD at baseline are calculated based on number of participants with data available for analysis									
e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed									
f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero									
g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed									
h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom									
CI: Confidence Interval; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization									

**EORTC QLQ-C30: Symptomskala Dyspnoe**

Tabelle 4G-10: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Dyspnoe des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup>	p-Value <sup>e</sup>			
EORTC QLQ-C30 Dyspnoea	N <sup>b</sup>			Mean Difference <sup>f</sup>	[95 %-CI]			
<b>Sex</b>								
Male								
Pembrolizumab	297	269	7.68 (16.75)	3.78 (0.70)	2.05 [0.08; 4.01]	0.041	0.13 [0.01; 0.25]	0.981
Placebo	287	270	5.19 (13.40)	1.73 (0.71)				
Female								
Pembrolizumab	186	161	6.42 (14.20)	6.05 (1.12)	1.89 [-1.15; 4.93]	0.223	-	
Placebo	199	179	6.89 (15.27)	4.16 (1.06)				
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	7.37 (17.10)	5.01 (0.81)	2.60 [0.35; 4.84]	0.023	0.15 [0.02; 0.28]	0.264
Placebo	295	270	5.56 (14.30)	2.42 (0.81)				
\geq 65								
Pembrolizumab	184	163	6.95 (13.59)	3.88 (0.93)	0.69 [-1.84; 3.23]	0.590	-	
Placebo	191	179	6.33 (14.03)	3.19 (0.89)				
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>								
Pembrolizumab	289	260	8.59 (17.30)	4.95 (0.80)	2.41 [0.27; 4.55]	0.028	0.14 [0.01; 0.26]	0.382
Placebo	323	302	6.62 (15.14)	2.54 (0.75)				
Rest of World								
Pembrolizumab	194	170	5.10 (13.08)	4.36 (0.94)	1.22 [-1.50; 3.93]	0.380	-	
Placebo	163	147	4.31 (11.88)	3.14 (1.01)				
<b>ECOG Performance Status</b>								
0								
Pembrolizumab	450	403	7.28 (16.01)	4.49 (0.63)	2.02 [0.29; 3.76]	0.022	0.12 [0.02; 0.22]	0.463
Placebo	449	417	6.00 (14.39)	2.47 (0.62)				
1								
Pembrolizumab	32	27	6.17 (13.19)	6.12 (2.64)	-0.02 [-7.32; 7.29]	0.997	-	
Placebo	35	31	4.30 (11.36)	6.13 (2.50)				

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized		
EORTC QLQ-C30 Dyspnoea	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]

<sup>a</sup>: Database Cutoff Date: 04JAN2022  
<sup>b</sup>: Number of participants: full-analysis-set population  
<sup>c</sup>: Number of participants with data available for analysis  
<sup>d</sup>: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
<sup>e</sup>: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
<sup>f</sup>: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
<sup>g</sup>: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
<sup>h</sup>: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
<sup>CI</sup>: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

### EORTC QLQ-C30: Symptomskala Schlaflosigkeit

Tabelle 4G-11: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Schlaflosigkeit des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized				
EORTC QLQ-C30 Insomnia	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]		
<b>Sex</b>								
Male								
Pembrolizumab	297	269	14.99 (24.14)	1.95 (0.94)	1.28	0.336	-	0.439
Placebo	287	270	14.69 (22.13)	0.67 (0.94)	[-1.33; 3.89]			
Female								
Pembrolizumab	186	161	21.95 (26.38)	1.66 (1.39)	-0.46	0.808	-	
Placebo	199	179	21.79 (26.03)	2.12 (1.32)	[-4.23; 3.30]			
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	19.10 (27.06)	1.74 (1.05)	0.12	0.935	-	0.684
Placebo	295	270	18.77 (25.42)	1.62 (1.05)	[-2.79; 3.03]			
≥ 65								
Pembrolizumab	184	163	15.13 (21.66)	1.90 (1.17)	1.02	0.530	-	
Placebo	191	179	15.64 (21.58)	0.88 (1.13)	[-2.18; 4.22]			
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	18.48 (26.17)	3.35 (1.24)	2.79	0.109	-	0.217
Placebo	200	184	15.76 (20.60)	0.55 (1.22)	[-0.63; 6.21]			
IIB T4a								

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	
EORTC QLQ-C30 Insomnia	N <sup>b</sup>			Standardized Mean Difference <sup>f</sup> [95 %-CI]		
Pembrolizumab	107	99 17.85 (22.49)	0.46 (1.74)	-1.94	0.419	-
Placebo	116	108 21.30 (25.15)	2.40 (1.64)	[-6.66; 2.78]		
IIC T4b						
Pembrolizumab	170	152 16.67 (26.02)	0.86 (1.26)	-0.49	0.786	-
Placebo	169	156 16.88 (26.64)	1.34 (1.27)	[-4.01; 3.04]		
<b>Geographic Region</b>						
WHO Stratum A <sup>h</sup>						
Pembrolizumab	289	260 19.49 (26.13)	2.04 (1.06)	1.01	0.486	-
Placebo	323	302 17.33 (24.56)	1.03 (0.99)	[-1.83; 3.85]		
Rest of World						
Pembrolizumab	194	170 14.71 (23.49)	1.37 (1.15)	-0.48	0.774	-
Placebo	163	147 17.91 (22.84)	1.86 (1.23)	[-3.79; 2.82]		
<b>ECOG Performance Status</b>						
0						
Pembrolizumab	450	403 17.87 (25.44)	1.65 (0.82)	0.45	0.693	-
Placebo	449	417 17.59 (24.02)	1.20 (0.81)	[-1.80; 2.70]		
1						
Pembrolizumab	32	27 13.58 (21.20)	3.83 (3.05)	2.41	0.569	-
Placebo	35	31 17.20 (24.15)	1.42 (2.89)	[-6.03; 10.84]		

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: full-analysis-set population  
 c: Number of participants with data available for analysis  
 d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
 e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
 g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

*EORTC QLQ-C30: Symptomskala Appetitverlust*

Tabelle 4G-12: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Appetitverlust des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup> EORTC QLQ-C30 Appetite loss		N <sup>b</sup>	N <sup>c</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
						Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>Sex</b>									
Male									
Pembrolizumab	297	269	2.97 (10.35)	3.02 (0.58)	1.61 [-0.01; 3.24]	0.052	-	0.769	
Placebo	287	270	3.21 (12.77)	1.41 (0.59)					
Female									
Pembrolizumab	186	161	3.31 (10.00)	2.09 (0.94)	0.76 [-1.81; 3.34]	0.560	-		
Placebo	199	179	8.01 (17.78)	1.33 (0.90)					
<b>Age Group</b>									
< 65									
Pembrolizumab	299	267	3.75 (11.31)	2.42 (0.68)	1.38 [-0.50; 3.26]	0.150	-	0.992	
Placebo	295	270	5.80 (16.36)	1.04 (0.67)					
≥ 65									
Pembrolizumab	184	163	2.04 (8.02)	3.32 (0.77)	1.59 [-0.51; 3.69]	0.138	-		
Placebo	191	179	4.10 (13.05)	1.74 (0.74)					
<b>Severity of disease: T-Stage</b>									
IIB T3b									
Pembrolizumab	199	175	3.43 (10.77)	2.23 (0.75)	1.27 [-0.80; 3.34]	0.228	-	0.915	
Placebo	200	184	3.80 (12.71)	0.96 (0.74)					
IIB T4a									
Pembrolizumab	107	99	2.69 (9.13)	4.38 (1.29)	2.47 [-1.07; 6.01]	0.171	-		
Placebo	116	108	7.41 (17.25)	1.91 (1.23)					
IIC T4b									
Pembrolizumab	170	152	3.07 (10.40)	2.32 (0.76)	1.21 [-0.93; 3.35]	0.266	-		
Placebo	169	156	5.13 (16.13)	1.11 (0.77)					
<b>Geographic Region</b>									
WHO Stratum A <sup>h</sup>									
Pembrolizumab	289	260	2.69 (9.56)	2.98 (0.66)	1.52 [-0.26; 3.29]	0.094	-	0.998	
Placebo	323	302	4.97 (14.92)	1.46 (0.62)					
Rest of World									
Pembrolizumab	194	170	3.73 (11.14)	2.34 (0.80)	1.35 [-0.97; 3.66]	0.254	-		
Placebo	163	147	5.44 (15.63)	0.99 (0.86)					
<b>ECOG Performance Status</b>									
0									
Pembrolizumab	450	403	3.31 (10.52)	2.57 (0.53)	1.32 [-0.13; 2.78]	0.074	-	0.629	
Placebo	449	417	5.04 (15.11)	1.24 (0.52)					
1									
Pembrolizumab	32	27	0.00 (0.00)	5.41 (2.22)	2.96 [-3.28; 9.20]	0.346	-		
Placebo	35	31	6.45 (15.91)	2.45 (2.10)					

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized		
EORTC QLQ-C30 Appetite loss	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]
a: Database Cutoff Date: 04JAN2022 b: Number of participants: full-analysis-set population c: Number of participants with data available for analysis d: Mean and SD at baseline are calculated based on number of participants with data available for analysis e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization						

**EORTC QLQ-C30: Symptomskala Verstopfung**

Tabelle 4G-13: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Verstopfung des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized				
EORTC QLQ-C30 Constipation	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]		
<b>Sex</b>								
Male								
Pembrolizumab	297	269	5.33 (14.42)	1.87 (0.65)	0.81 [-1.00; 2.61]	0.382	-	0.131
Placebo	287	270	5.19 (14.00)	1.07 (0.65)				
Female								
Pembrolizumab	186	161	9.73 (20.63)	-0.69 (1.00)	-1.53 [-4.24; 1.17]	0.265	-	
Placebo	199	179	11.55 (22.42)	0.85 (0.95)				
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	9.14 (20.03)	0.33 (0.82)	1.06 [-1.20; 3.32]	0.357	-	0.426
Placebo	200	184	7.43 (16.32)	-0.73 (0.80)				
IIB T4a								
Pembrolizumab	107	99	4.71 (12.61)	0.53 (1.18)	-1.44 [-4.67; 1.78]	0.379	-	
Placebo	116	108	9.26 (18.70)	1.98 (1.12)				
IIC T4b								
Pembrolizumab	170	152	6.14 (16.01)	1.59 (0.97)	-0.76 [-3.48; 1.96]	0.583	-	
Placebo	169	156	7.05 (19.68)	2.35 (0.98)				
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>								
Pembrolizumab	289	260	6.79 (17.60)	1.32 (0.70)	0.55 [-1.33; 2.44]	0.563	-	0.175
Placebo	323	302	6.84 (17.32)	0.77 (0.66)				
Rest of World								
Pembrolizumab	194	170	7.25 (16.41)	0.05 (0.92)	-1.59 [-4.26; 1.07]	0.241	-	
Placebo	163	147	9.52 (19.51)	1.64 (0.99)				

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup>	p-Value <sup>e</sup>			
EORTC QLQ-C30 Constipation	N <sup>b</sup>			[95 %-CI]	[95 %-CI]			
<b>ECOG Performance Status</b>								
0								
Pembrolizumab	450	403	6.53 (16.58)	0.98 (0.57)	-0.34 [-1.92; 1.23]	0.670	-	0.434
Placebo	449	417	7.67 (18.19)	1.33 (0.56)				
1								
Pembrolizumab	32	27	13.58 (23.13)	-1.52 (2.45)	1.64	0.627	-	
Placebo	35	31	8.60 (17.14)	-3.16 (2.30)	[-5.10; 8.39]			

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: full-analysis-set population  
 c: Number of participants with data available for analysis  
 d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
 e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
 g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

### EORTC QLQ-C30: Symptomskala Diarrhö

Tabelle 4G-14: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Symptomskala Diarrhö des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup>	p-Value <sup>e</sup>			
EORTC QLQ-C30 Diarrhea	N <sup>b</sup>			[95 %-CI]	[95 %-CI]			
<b>Sex</b>								
Male								
Pembrolizumab	297	269	7.43 (16.37)	1.01 (0.62)	2.77 [1.04; 4.50]	0.002	0.19	0.134
Placebo	287	270	5.93 (14.58)	-1.76 (0.62)			[0.07; 0.31]	
Female								
Pembrolizumab	186	161	4.97 (14.54)	2.29 (0.89)	0.54	0.661	-	
Placebo	199	179	4.84 (13.74)	1.75 (0.84)	[-1.88; 2.95]			
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	7.24 (16.01)	2.01 (0.72)	1.73	0.091	-	0.796
Placebo	295	270	6.05 (14.39)	0.28 (0.72)	[-0.28; 3.73]			
≥ 65								
Pembrolizumab	184	163	5.32 (15.24)	0.74 (0.63)	2.08	0.018	0.16	
Placebo	191	179	4.66 (14.02)	-1.35 (0.61)	[0.36; 3.81]		[0.03; 0.29]	
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	7.81 (17.76)	1.88 (0.78)	3.37 [1.23; 5.51]	0.002	0.22	0.133
Placebo	200	184	5.80 (15.67)	-1.49 (0.76)			[0.08; 0.36]	
IIB T4a								
Pembrolizumab	107	99	6.06 (15.33)	0.31 (1.07)	-0.53	0.720	-	

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	
EORTC QLQ-C30 Diarrhea	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]
Placebo	116	108	5.86 (13.54)	0.84 (1.01)	[-3.44; 2.38]	-
IIC T4b						
Pembrolizumab	170	152	5.26 (13.35)	1.92 (0.88)	1.85	0.141
Placebo	169	156	4.91 (13.01)	0.07 (0.89)	[-0.62; 4.32]	-
<b>Geographic Region</b>						
WHO Stratum A <sup>h</sup>						
Pembrolizumab	289	260	6.28 (16.01)	1.56 (0.70)	1.37	0.152
Placebo	323	302	5.63 (15.18)	0.19 (0.66)	[-0.51; 3.26]	-
Rest of World						
Pembrolizumab	194	170	6.86 (15.34)	1.43 (0.71)	2.95	0.005
Placebo	163	147	5.22 (12.15)	-1.52 (0.76)	[0.90; 4.99]	0.21
<b>ECOG Performance Status</b>						
0						
Pembrolizumab	450	403	6.29 (15.02)	1.38 (0.53)	1.71	0.022
Placebo	449	417	5.76 (14.58)	-0.33 (0.52)	[0.25; 3.17]	[0.02; 0.20]
1						
Pembrolizumab	32	27	9.88 (24.13)	3.52 (2.06)	4.37	0.134
Placebo	35	31	2.15 (8.32)	-0.85 (1.94)	[-1.38; 10.13]	-
a: Database Cutoff Date: 04JAN2022 b: Number of participants: full-analysis-set population c: Number of participants with data available for analysis d: Mean and SD at baseline are calculated based on number of participants with data available for analysis e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization						

### EQ-5D VAS

Tabelle 4G-15: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die EQ-5D VAS aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	
EQ-5D VAS Score	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]
<b>Sex</b>						
Male						
Pembrolizumab	297	272	84.24 (12.61)	-1.67 (0.52)	-1.36	0.065
Placebo	287	274	85.44 (12.35)	-0.32 (0.52)	[-2.79; 0.08]	-
Female						
Pembrolizumab	186	165	84.70 (12.93)	-2.91 (0.83)	-1.53	0.179
Placebo	199	184	84.26 (13.42)	-1.37 (0.78)	[-3.77; 0.70]	-

Study: KEYNOTE 716 <sup>a</sup>	N <sup>b</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
				Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>Age Group</b>							
< 65							
Pembrolizumab	299	271	83.75 (13.39)	-1.57 (0.58)	-1.65	0.044	-0.14
Placebo	295	275	84.80 (13.14)	0.08 (0.57)	[-3.25; -0.05]		[-0.27; -0.00]
≥ 65							
Pembrolizumab	184	166	85.49 (11.51)	-3.20 (0.71)	-1.16	0.235	-
Placebo	191	183	85.21 (12.27)	-2.04 (0.68)	[-3.09; 0.76]		
<b>Severity of disease: T-Stage</b>							
IIB T3b							
Pembrolizumab	199	179	84.08 (12.32)	-1.85 (0.68)	-1.56	0.102	-
Placebo	200	187	85.99 (12.68)	-0.29 (0.67)	[-3.44; 0.31]		
IIB T4a							
Pembrolizumab	107	101	84.66 (12.20)	-2.31 (0.96)	-0.86	0.514	-
Placebo	116	112	84.09 (12.94)	-1.45 (0.90)	[-3.46; 1.73]		
IIC T4b							
Pembrolizumab	170	152	84.24 (13.58)	-2.57 (0.77)	-2.18	0.046	-0.18
Placebo	169	158	84.38 (12.85)	-0.39 (0.77)	[-4.31; -0.04]		[-0.35; -0.00]
<b>Geographic Region</b>							
WHO Stratum A <sup>h</sup>							
Pembrolizumab	289	266	83.35 (13.42)	-1.88 (0.57)	-1.38	0.079	-
Placebo	323	308	84.60 (13.05)	-0.50 (0.54)	[-2.93; 0.16]		
Rest of World							
Pembrolizumab	194	171	86.08 (11.38)	-2.73 (0.73)	-1.62	0.130	-
Placebo	163	150	85.71 (12.24)	-1.11 (0.78)	[-3.71; 0.48]		
<b>ECOG Performance Status</b>							
0							
Pembrolizumab	450	408	84.66 (12.70)	-2.10 (0.47)	-1.29	0.049	-0.11
Placebo	449	424	85.08 (12.93)	-0.81 (0.46)	[-2.57; -0.01]		[-0.21; -0.00]
1							
Pembrolizumab	32	28	80.64 (12.86)	-3.78 (1.79)	-4.21	0.095	-
Placebo	35	32	84.00 (10.70)	0.43 (1.69)	[-9.18; 0.76]		

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]				
EQ-5D VAS Score	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]		
a: Database Cutoff Date: 04JAN2022								
b: Number of participants: full-analysis-set population								
c: Number of participants with data available for analysis								
d: Mean and SD at baseline are calculated based on number of participants with data available for analysis								
e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed								
f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero								
g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed								
h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom								
CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EQ-5D: European Quality of Life 5 Dimensions; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; VAS: Visual Analog Scale; WHO: World Health Organization								

## Anhang 4-G3.2: Gesundheitsbezogene Lebensqualität

### EORTC QLQ-C30

#### *EORTC QLQ-C30: Globaler Gesundheitsstatus*

Tabelle 4G-16: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den globalen Gesundheitsstatus des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]		
EORTC QLQ-C30 Global Health Status/QoL	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]
<b>Sex</b>						
Male						
Pembrolizumab	297	269 82.09 (16.37)	-4.01 (0.63)	-3.26	< 0.001	-0.23
Placebo	287	270 82.25 (15.20)	-0.76 (0.63)	[-5.00; -1.51]		[-0.35; -0.11]
Female						
Pembrolizumab	186	161 81.31 (16.16)	-4.95 (0.95)	-1.34	0.309	-
Placebo	199	179 79.52 (17.06)	-3.61 (0.91)	[-3.93; 1.25]		
<b>Age Group</b>						
< 65						
Pembrolizumab	299	267 80.87 (17.59)	-3.66 (0.70)	-2.52	0.010	-0.16
Placebo	295	270 80.96 (16.63)	-1.14 (0.69)	[-4.45; -0.60]		[-0.29; -0.04]
≥ 65						
Pembrolizumab	184	163 83.33 (13.76)	-5.63 (0.84)	-2.56	0.028	-0.18
Placebo	191	179 81.47 (15.06)	-3.07 (0.80)	[-4.84; -0.28]		[-0.33; -0.02]

Study: KEYNOTE 716 <sup>a</sup>		N <sup>b</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>	
					Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]		
<b>EORTC QLQ-C30 Global Health Status/QoL</b>									
IIB T3b	Pembrolizumab	199	175 (17.95)	81.00 (17.95)	-4.05 (0.77)	-1.72	0.112	-	0.475
Placebo		200	184 (14.77)	83.47 (14.77)	-2.33 (0.75)	[-3.84; 0.40]			
IIB T4a	Pembrolizumab	107	99 (15.20)	82.58 (15.20)	-4.70 (1.25)	-2.23	0.199	-	
Placebo		116	108 (16.64)	79.71 (16.64)	-2.47 (1.19)	[-5.64; 1.18]			
IIC T4b	Pembrolizumab	170	152 (14.99)	81.96 (14.99)	-4.59 (0.91)	-3.78	0.004	-0.25	
Placebo		169	156 (16.73)	79.54 (16.73)	-0.81 (0.92)	[-6.33; -1.24]			[-0.42; -0.08]
<b>Severity of disease: T-Stage</b>									
WHO Stratum A <sup>h</sup>	Pembrolizumab	289	260 (16.61)	80.67 (16.61)	-4.17 (0.69)	-2.84	0.003	-0.18	0.502
Placebo		323	302 (16.45)	80.88 (16.45)	-1.33 (0.65)	[-4.70; -0.97]			[-0.31; -0.06]
Rest of World	Pembrolizumab	194	170 (15.65)	83.53 (15.65)	-4.84 (0.84)	-1.88	0.127	-	
Placebo		163	147 (15.09)	81.75 (15.09)	-2.96 (0.90)	[-4.30; 0.54]			
<b>Geographic Region</b>									
ECOG Performance Status									
0	Pembrolizumab	450	403 (16.36)	81.99 (16.36)	-4.19 (0.55)	-2.43	0.002	-0.16	0.737
Placebo		449	417 (16.06)	81.41 (16.06)	-1.76 (0.54)	[-3.95; -0.91]			[-0.26; -0.06]
1	Pembrolizumab	32	27 (15.04)	79.01 (15.04)	-6.95 (2.21)	-3.42	0.264	-	
Placebo		35	31 (15.27)	77.69 (15.27)	-3.53 (2.09)	[-9.51; 2.66]			

a: Database Cutoff Date: 04JAN2022  
b: Number of participants: full-analysis-set population  
c: Number of participants with data available for analysis  
d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

*EORTC QLQ-C30: Funktionsskala Körperlische Funktion*

Tabelle 4G-17: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Funktionsskala Körperlische Funktion des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>						Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>g</sup>
		EORTC QLQ-C30 Physical Functioning	N <sup>b</sup>	Mean at Baseline N <sup>c</sup>	Mean Change from Baseline (SD) <sup>d</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	
<b>Sex</b>								
Male								
Pembrolizumab	297	269	93.09 (11.25)	-2.81 (0.53)	-1.66	0.028	-0.15	0.159
Placebo	287	270	93.46 (12.32)	-1.15 (0.53)	[-3.13; -0.18]		[-0.28; -0.02]	
Female								
Pembrolizumab	186	161	90.31 (14.20)	-2.82 (0.86)	0.18	0.878	-	
Placebo	199	179	89.39 (15.43)	-3.00 (0.82)	[-2.15; 2.52]			
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	93.28 (10.85)	-2.93 (0.60)	-1.38	0.104	-	0.357
Placebo	295	270	92.59 (13.29)	-1.55 (0.60)	[-3.04; 0.29]			
≥ 65								
Pembrolizumab	184	163	90.02 (14.62)	-2.52 (0.73)	-0.13	0.898	-	
Placebo	191	179	90.69 (14.44)	-2.39 (0.70)	[-2.13; 1.87]			
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	93.18 (11.83)	-3.82 (0.69)	-1.95	0.045	-0.17	0.270
Placebo	200	184	93.37 (12.06)	-1.87 (0.68)	[-3.85; -0.05]		[-0.33; -0.00]	
IIB T4a								
Pembrolizumab	107	99	91.85 (11.45)	-3.26 (1.01)	-1.14	0.412	-	
Placebo	116	108	92.41 (13.53)	-2.12 (0.96)	[-3.88; 1.60]			
IIC T4b								
Pembrolizumab	170	152	90.75 (13.90)	-1.20 (0.80)	0.50	0.659	-	
Placebo	169	156	89.96 (15.04)	-1.70 (0.80)	[-1.73; 2.73]			
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>								
Pembrolizumab	289	260	92.72 (11.74)	-3.25 (0.62)	-1.37	0.108	-	0.300
Placebo	323	302	91.81 (14.43)	-1.88 (0.58)	[-3.03; 0.30]			
Rest of World								
Pembrolizumab	194	170	91.02 (13.53)	-1.94 (0.69)	0.10	0.922	-	
Placebo	163	147	91.88 (12.37)	-2.04 (0.74)	[-1.88; 2.08]			

Study: KEYNOTE 716 <sup>a</sup>		N <sup>b</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
					Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>ECOG Performance Status</b>								
0	Pembrolizumab	450	403 92.46 (12.15)	-2.79 (0.48)	-1.05	0.117	-	0.614
	Placebo	449	417 92.55 (13.27)	-1.74 (0.47)	[-2.36; 0.26]			
1	Pembrolizumab	32	27 85.93 (15.83)	-2.98 (1.99)	0.07	0.980	-	
	Placebo	35	31 82.58 (17.01)	-3.05 (1.88)	[-5.42; 5.56]			

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: full-analysis-set population  
 c: Number of participants with data available for analysis  
 d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
 e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
 g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

### EORTC QLQ-C30: Funktionsskala Rollenfunktion

Tabelle 4G-18: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Funktionsskala Rollenfunktion des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		N <sup>b</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
					Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>Sex</b>								
Male	Pembrolizumab	297	269 91.64 (17.25)	-3.51 (0.73)	-3.68	< 0.001	-0.22	0.175
	Placebo	287	270 91.11 (18.33)	0.17 (0.73)	[-5.71; -1.65]			[-0.34; -0.10]
Female	Pembrolizumab	186	161 87.89 (22.05)	-1.79 (1.23)	-1.14	0.503	-	
	Placebo	199	179 85.85 (23.99)	-0.65 (1.17)	[-4.47; 2.20]			
<b>Age Group</b>								
< 65	Pembrolizumab	299	267 89.95 (20.49)	-2.71 (0.86)	-3.50	0.004	-0.19	0.236
	Placebo	295	270 87.28 (22.74)	0.79 (0.86)	[-5.89; -1.11]			[-0.32; -0.06]
≥ 65								

Study: KEYNOTE 716 <sup>a</sup>				Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
EORTC QLQ-C30 Role Functioning	N <sup>b</sup>			-1.23	0.369	-	
Pembrolizumab	184	163 90.70 (17.08)	-3.06 (0.98)				
Placebo	191	179 91.62 (17.52)	-1.84 (0.95)	[-3.91; 1.46]			
<b>Severity of disease: T-Stage</b>							
IIB T3b							
Pembrolizumab	199	175 90.48 (18.86)	-3.87 (0.95)	-3.78	0.005	-0.21	0.670
Placebo	200	184 90.94 (19.93)	-0.09 (0.93)	[-6.39; -1.17]		[-0.36; -0.07]	
IIB T4a							
Pembrolizumab	107	99 91.92 (15.68)	-3.36 (1.30)	-2.80	0.121	-	
Placebo	116	108 89.04 (18.53)	-0.56 (1.23)	[-6.34; 0.74]			
IIC T4b							
Pembrolizumab	170	152 88.60 (21.82)	-1.41 (1.16)	-1.89	0.252	-	
Placebo	169	156 86.97 (23.21)	0.48 (1.17)	[-5.13; 1.35]			
<b>Geographic Region</b>							
WHO Stratum A <sup>h</sup>							
Pembrolizumab	289	260 89.62 (19.29)	-3.02 (0.88)	-3.10	0.011	-0.16	0.618
Placebo	323	302 88.02 (22.35)	0.09 (0.83)	[-5.48; -0.73]		[-0.29; -0.04]	
Rest of World							
Pembrolizumab	194	170 91.18 (19.20)	-2.81 (0.92)	-2.15	0.111	-	
Placebo	163	147 91.04 (17.48)	-0.67 (0.98)	[-4.79; 0.50]			
<b>ECOG Performance Status</b>							
0							
Pembrolizumab	450	403 90.53 (19.26)	-2.74 (0.66)	-2.58	0.005	-0.14	0.457
Placebo	449	417 89.45 (20.59)	-0.16 (0.65)	[-4.40; -0.76]		[-0.25; -0.04]	
1							
Pembrolizumab	32	27 85.80 (18.89)	-4.40 (3.30)	-5.31	0.247	-	
Placebo	35	31 82.80 (24.53)	0.91 (3.11)	[-14.43; 3.81]			

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: full-analysis-set population  
 c: Number of participants with data available for analysis  
 d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
 e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
 g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

*EORTC QLQ-C30: Funktionsskala Emotionale Funktion*

Tabelle 4G-19: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Funktionsskala Emotionale Funktion des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup> EORTC QLQ-C30 Emotional Functioning		N <sup>b</sup>	N <sup>c</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
						Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>Sex</b>									
Male									
Pembrolizumab	297	269	86.03 (17.43)	0.50 (0.63)	-1.00	0.261	-	0.696	
Placebo	287	270	87.96 (14.16)	1.50 (0.63)	[-2.74; 0.74]				
Female									
Pembrolizumab	186	161	82.92 (18.04)	-0.59 (1.09)	-1.66	0.268	-		
Placebo	199	179	79.84 (19.81)	1.07 (1.03)	[-4.62; 1.29]				
<b>Age Group</b>									
< 65									
Pembrolizumab	299	267	82.77 (19.08)	-0.04 (0.78)	-1.54	0.163	-	0.498	
Placebo	295	270	82.99 (18.22)	1.50 (0.78)	[-3.70; 0.63]				
≥ 65									
Pembrolizumab	184	163	88.29 (14.60)	0.49 (0.78)	-0.38	0.724	-		
Placebo	191	179	87.34 (14.90)	0.87 (0.75)	[-2.50; 1.74]				
<b>Geographic Region</b>									
WHO Stratum A <sup>h</sup>									
Pembrolizumab	289	260	83.65 (18.54)	0.10 (0.71)	-1.48	0.130	-	0.564	
Placebo	323	302	84.44 (16.75)	1.58 (0.67)	[-3.41; 0.44]				
Rest of World									
Pembrolizumab	194	170	86.72 (16.23)	0.14 (0.95)	-0.52	0.711	-		
Placebo	163	147	85.32 (17.81)	0.65 (1.02)	[-3.26; 2.22]				
<b>ECOG Performance Status</b>									
0									
Pembrolizumab	450	403	84.86 (17.77)	0.40 (0.59)	-0.81	0.327	-	0.073	
Placebo	449	417	84.67 (17.20)	1.21 (0.58)	[-2.43; 0.81]				
1									
Pembrolizumab	32	27	84.88 (16.99)	-3.93 (2.26)	-6.65	0.037	-0.43		
Placebo	35	31	85.75 (15.99)	2.72 (2.13)	[-12.86; -0.43]		[-0.84; -0.03]		

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized		
EORTC QLQ-C30 Emotional Functioning	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]
a: Database Cutoff Date: 04JAN2022 b: Number of participants: full-analysis-set population c: Number of participants with data available for analysis d: Mean and SD at baseline are calculated based on number of participants with data available for analysis e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization						

**EORTC QLQ-C30: Funktionsskala Kognitive Funktion**

Tabelle 4G-20: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Funktionsskala Kognitive Funktion des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>		
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized				
EORTC QLQ-C30 Cognitive Functioning	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]		
<b>Sex</b>								
Male								
Pembrolizumab	297	269	92.57 (12.82)	-3.86 (0.62)	-1.71	0.052	-	0.213
Placebo	287	270	93.02 (13.00)	-2.15 (0.62)	[-3.43; 0.01]			
Female								
Pembrolizumab	186	161	93.17 (13.63)	-3.88 (0.95)	0.10	0.942	-	
Placebo	199	179	90.50 (16.38)	-3.98 (0.90)	[-2.49; 2.68]			
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	92.76 (14.15)	-4.09 (0.71)	-1.47	0.145	-	0.394
Placebo	295	270	92.10 (15.32)	-2.63 (0.71)	[-3.44; 0.51]			
≥ 65								
Pembrolizumab	184	163	92.84 (11.26)	-3.41 (0.76)	-0.14	0.898	-	
Placebo	191	179	91.90 (13.14)	-3.27 (0.73)	[-2.21; 1.94]			
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	93.24 (11.59)	-4.13 (0.81)	-0.72	0.524	-	0.936
Placebo	200	184	93.66 (10.84)	-3.40 (0.79)	[-2.96; 1.51]			
IIB T4a								

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	
EORTC QLQ-C30 Cognitive Functioning	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]
Pembrolizumab	107	99 (14.35)	-4.34 (1.22)	-1.46	0.387	-
Placebo	116	108 (16.19)	-2.88 (1.16)	[-4.77; 1.86]		
IIC T4b						
Pembrolizumab	170	152 (13.87)	-3.29 (0.85)	-1.05	0.383	-
Placebo	169	156 (16.67)	-2.24 (0.85)	[-3.43; 1.32]		
<b>Geographic Region</b>						
WHO Stratum A <sup>h</sup>						
Pembrolizumab	289	260 (13.02)	-3.49 (0.67)	-0.99	0.283	-
Placebo	323	302 (15.42)	-2.50 (0.63)	[-2.79; 0.82]		
Rest of World						
Pembrolizumab	194	170 (13.28)	-4.39 (0.85)	-0.63	0.612	-
Placebo	163	147 (12.34)	-3.75 (0.91)	[-3.08; 1.82]		
<p>a: Database Cutoff Date: 04JAN2022  b: Number of participants: full-analysis-set population  c: Number of participants with data available for analysis  d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  CI: Confidence Interval; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization</p>						

### EORTC QLQ-C30: Funktionsskala Soziale Funktion

Tabelle 4G-21: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für die Funktionsskala Soziale Funktion des EORTC QLQ-C30 aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	
EORTC QLQ-C30 Social Functioning	N <sup>b</sup>			Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]
Male						
Pembrolizumab	297	269 (15.93)	-1.36 (0.64)	-2.94	0.001	-0.21
Placebo	287	270 (16.74)	1.57 (0.64)	[-4.72; -1.15]		
Female						
Pembrolizumab	186	161 (15.37)	-1.73 (1.14)	-1.81	0.249	-
Placebo	199	179 (22.01)	0.08 (1.08)	[-4.91; 1.28]		
<b>Sex</b>						

Study: KEYNOTE 716 <sup>a</sup>		N <sup>b</sup>	Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Pembrolizumab vs. Placebo			p-Value for Interaction Test <sup>g</sup>
					Mean Difference <sup>e</sup> [95 %-CI]	p-Value <sup>e</sup>	Standardized Mean Difference <sup>f</sup> [95 %-CI]	
<b>Age Group</b>								
< 65								
Pembrolizumab	299	267	91.82 (16.18)	-2.03 (0.81)	-3.41	0.003	-0.20	0.129
Placebo	295	270	88.02 (21.71)	1.38 (0.81)	[-5.67; -1.15]		[-0.33; -0.07]	
≥ 65								
Pembrolizumab	184	163	91.82 (14.97)	-0.55 (0.80)	-0.73	0.514	-	
Placebo	191	179	93.11 (13.99)	0.18 (0.77)	[-2.91; 1.46]			
<b>Severity of disease: T-Stage</b>								
IIB T3b								
Pembrolizumab	199	175	93.33 (13.96)	-2.60 (0.82)	-3.65	0.002	-0.24	0.328
Placebo	200	184	91.39 (18.11)	1.05 (0.80)	[-5.91; -1.38]		[-0.39; -0.09]	
IIB T4a								
Pembrolizumab	107	99	91.41 (14.94)	-1.29 (1.33)	-1.18	0.520	-	
Placebo	116	108	89.35 (18.71)	-0.11 (1.26)	[-4.79; 2.43]			
IIC T4b								
Pembrolizumab	170	152	90.35 (17.95)	-0.30 (1.03)	-1.84	0.206	-	
Placebo	169	156	89.10 (20.62)	1.55 (1.03)	[-4.71; 1.02]			
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>								
Pembrolizumab	289	260	91.67 (15.88)	-1.61 (0.78)	-2.08	0.053	-	0.457
Placebo	323	302	90.01 (19.79)	0.47 (0.73)	[-4.18; 0.03]			
Rest of World								
Pembrolizumab	194	170	92.06 (15.51)	-1.31 (0.87)	-3.25	0.011	-0.21	
Placebo	163	147	90.14 (17.85)	1.95 (0.93)	[-5.77; -0.74]		[-0.38; -0.05]	
<b>ECOG Performance Status</b>								
0								
Pembrolizumab	450	403	91.94 (15.87)	-1.35 (0.61)	-2.25	0.008	-0.14	0.284
Placebo	449	417	90.33 (19.02)	0.90 (0.60)	[-3.92; -0.58]		[-0.24; -0.04]	
1								
Pembrolizumab	32	27	90.12 (13.28)	-3.41 (2.38)	-6.44	0.055	-	
Placebo	35	31	86.02 (21.12)	3.03 (2.25)	[-13.03; 0.15]			

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab vs. Placebo				p-Value for Interaction Test <sup>g</sup>
		Mean at Baseline (SD) <sup>d</sup>	Mean Change from Baseline (SE) <sup>e</sup>	Standardized Mean Difference <sup>e</sup>		
EORTC QLQ-C30 Social Functioning	N <sup>b</sup>	N <sup>c</sup>	N <sup>c</sup>	p-Value <sup>e</sup>	Mean Difference <sup>f</sup> [95 %-CI]	

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: full-analysis-set population  
 c: Number of participants with data available for analysis  
 d: Mean and SD at baseline are calculated based on number of participants with data available for analysis  
 e: MMRM of change from baseline with treatment, time, baseline endpoint score as covariates. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 f: Standardized mean difference (Hedges' g) is only calculated if confidence interval for mean difference does not include zero  
 g: MMRM of change from baseline with treatment, subgroup, time and baseline endpoint score as covariates and treatment-by-subgroup interaction. A continuous time assessment (relative analysis day) is used, and spatial power covariance between visits is assumed  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; EORTC QLQ-C30: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire - Core 30 items; MMRM: Mixed-effect Model Repeated Measures; SD: Standard Deviation; SE: Standard Error; WHO: World Health Organization

### Anhang 4-G3.3: Nebenwirkungen

#### ***Unerwünschte Ereignisse***

##### ***Unerwünschte Ereignisse gesamt***

Tabelle 4G-22: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Unerwünschte Ereignisse gesamt aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Adverse Events	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
<b>Sex</b>								
Male	297	279 (93.9)	3.1 [3.1; 3.4]	287	259 (90.2)	6.0 [4.1; 6.3]	1.38 [1.17; 1.64]	< 0.001
Female	186	183 (98.4)	3.1 [2.9; 3.3]	199	186 (93.5)	3.4 [3.1; 5.1]	1.32 [1.08; 1.62]	0.008
<b>Age Group</b>								
< 65	299	285 (95.3)	3.1 [3.1; 3.3]	295	272 (92.2)	3.4 [3.1; 4.7]	1.22 [1.04; 1.45]	0.018
≥ 65	184	177 (96.2)	3.1 [2.9; 3.3]	191	173 (90.6)	6.3 [5.0; 7.9]	1.60 [1.30; 1.98]	< 0.001
<b>Severity of disease: T-Stage</b>								
IIB T3b	199	191 (96.0)	3.1 [3.1; 3.4]	200	184 (92.0)	3.5 [3.1; 6.1]	1.28 [1.04; 1.57]	0.019
IIB T4a	107	102 (95.3)	3.1 [2.7; 3.3]	116	111 (95.7)	3.6 [3.1; 6.0]	1.13 [0.86; 1.47]	0.390
IIC T4b	170	165 (97.1)	3.1 [3.0; 3.6]	169	150 (88.8)	6.0 [4.6; 6.6]	1.64 [1.31; 2.05]	< 0.001
<b>Geographic Region</b>								
WHO Stratum A <sup>g</sup>	289	281 (97.2)	3.1 [3.0; 3.3]	323	298 (92.3)	4.6 [3.3; 6.0]	1.49 [1.27; 1.76]	< 0.001
Rest of World	194	181 (93.3)	3.1 [3.0; 4.1]	163	147 (90.2)	5.1 [3.3; 6.7]	1.18 [0.95; 1.47]	0.138
<b>ECOG Performance Status</b>								
0	450	430 (95.6)	3.1 [3.1; 3.3]	449	415 (92.4)	4.6 [3.4; 6.0]	1.32 [1.15; 1.51]	< 0.001
1	32	31 (96.9)	3.4 [1.1; 6.4]	35	29 (82.9)	9.0 [3.3; 21.4]	1.76 [1.05; 2.96]	0.033

a: Database Cutoff Date: 04JAN2022

b: Number of participants: all-participants-as-treated population

c: From product-limit (Kaplan-Meier) method for censored data

d: Based on Cox regression model with treatment as a covariate using Wald confidence interval

e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)

f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)

g: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom

CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; WHO: World Health Organization

*Schwerwiegende unerwünschte Ereignisse*

Tabelle 4G-23: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Schwerwiegende unerwünschte Ereignisse aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo			Pembrolizumab vs. Placebo	p-Value for Interaction Test <sup>f</sup>
	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>		
<b>Serious Adverse Events</b>								
Sex								
Male	297 (23.6)	70 [-; -]	Not reached	287 (20.6)	59 [-; -]	Not reached	1.24 [0.87; 1.75]	0.230 0.556
Female	186 (17.7)	33 [-; -]	Not reached	199 (17.6)	35 [-; -]	Not reached	1.03 [0.64; 1.66]	0.902
Age Group								
< 65	299 (17.7)	53 [-; -]	Not reached	295 (17.6)	52 [-; -]	Not reached	1.05 [0.71; 1.54]	0.813 0.362
≥ 65	184 (27.2)	50 [-; -]	Not reached	191 (22.0)	42 [-; -]	Not reached	1.34 [0.89; 2.03]	0.159
Severity of disease: T-Stage								
IIB T3b	199 (22.1)	44 [-; -]	Not reached	200 (18.5)	37 [-; -]	Not reached	1.28 [0.83; 1.99]	0.265 0.687
IIB T4a	107 (22.4)	24 [-; -]	Not reached	116 (19.0)	22 [-; -]	Not reached	1.28 [0.72; 2.29]	0.399
IIC T4b	170 (20.6)	35 [-; -]	Not reached	169 (20.7)	35 [-; -]	Not reached	0.99 [0.62; 1.58]	0.955
Geographic Region								
WHO Stratum A <sup>g</sup>	289 (22.1)	64 [-; -]	Not reached	323 (18.9)	61 [-; -]	Not reached	1.26 [0.88; 1.78]	0.202 0.477
Rest of World	194 (20.1)	39 [-; -]	Not reached	163 (20.2)	33 [-; -]	Not reached	1.02 [0.64; 1.62]	0.927
ECOG Performance Status								
0	450 (20.9)	94 [-; -]	Not reached	449 (19.2)	86 [-; -]	Not reached	1.16 [0.86; 1.55]	0.328 0.683
1	32 (28.1)	9 [55.1; -]	Not reached	35 (20.0)	7 [-; -]	Not reached	1.45 [0.54; 3.90]	0.461

a: Database Cutoff Date: 04JAN2022

b: Number of participants: all-participants-as-treated population

c: From product-limit (Kaplan-Meier) method for censored data

d: Based on Cox regression model with treatment as a covariate using Wald confidence interval

e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)

f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)

g: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom

CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; WHO: World Health Organization

*Schwere unerwünschte Ereignisse (CTCAE-Grad 3–5)*

Tabelle 4G-24: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Schwere unerwünschte Ereignisse (CTCAE-Grad 3–5) aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Severe Adverse Events (CTCAE-Grade 3–5)	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
<b>Sex</b>								
Male	297	94 (31.6)	64.6 [63.0; -]	287	64 (22.3)	64.3 [60.1; -]	1.58 [1.15; 2.17]	0.005
Female	186	43 (23.1)	Not reached [-; -]	199	33 (16.6)	81.1 [-; -]	1.50 [0.95; 2.37]	0.083
<b>Severity of disease: T-Stage</b>								
IIB T3b	199	55 (27.6)	64.6 [64.6; -]	200	36 (18.0)	81.1 [60.1; -]	1.72 [1.13; 2.63]	0.012
IIB T4a	107	30 (28.0)	Not reached [63.0; -]	116	26 (22.4)	64.3 [64.3; -]	1.41 [0.84; 2.39]	0.197
IIC T4b	170	52 (30.6)	Not reached [-; -]	169	35 (20.7)	Not reached [-; -]	1.54 [1.00; 2.37]	0.048
<b>ECOG Performance Status</b>								
0	450	129 (28.7)	64.6 [63.0; -]	449	89 (19.8)	81.1 [64.3; -]	1.61 [1.23; 2.12]	< 0.001
1	32	8 (25.0)	Not reached [-; -]	35	8 (22.9)	Not reached [-; -]	1.16 [0.44; 3.10]	0.764
a: Database Cutoff Date: 04JAN2022 b: Number of participants: all-participants-as-treated population c: From product-limit (Kaplan-Meier) method for censored data d: Based on Cox regression model with treatment as a covariate using Wald confidence interval e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group) f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term) CI: Confidence Interval; CTCAE: Common Terminology Criteria for Adverse Events; ECOG: Eastern Cooperative Oncology Group								

*Therapieabbruch wegen unerwünschter Ereignisse*

Tabelle 4G-25: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Therapieabbruch wegen unerwünschter Ereignisse aus RCT mit dem zu bewertenden Arzneimittel

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Adverse Events Leading to Treatment Discontinuation	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
<b>Sex</b>								
Male	297	56 (18.9)	Not reached [-; -]	287	15 (5.2)	Not reached [-; -]	4.04 [2.29; 7.15]	< 0.001
Female	186	27 (14.5)	Not reached [-; -]	199	7 (3.5)	Not reached [-; -]	4.38 [1.91; 10.05]	< 0.001

Age Group								
< 65	299	46 (15.4)	Not reached [-; -]	295	11 (3.7)	Not reached [-; -]	4.49 [2.32; 8.66]	< 0.001
≥ 65	184	37 (20.1)	Not reached [-; -]	191	11 (5.8)	Not reached [-; -]	3.92 [2.00; 7.69]	< 0.001
Severity of disease: T-Stage								
IIB T3b	199	26 (13.1)	Not reached [-; -]	200	9 (4.5)	Not reached [-; -]	3.14 [1.47; 6.70]	0.003
IIB T4a	107	19 (17.8)	Not reached [-; -]	116	5 (4.3)	Not reached [-; -]	4.72 [1.76; 12.66]	0.002
IIC T4b	170	38 (22.4)	Not reached [-; -]	169	8 (4.7)	Not reached [-; -]	5.05 [2.36; 10.82]	< 0.001
Geographic Region								
WHO Stratum A <sup>e</sup>	289	57 (19.7)	Not reached [-; -]	323	15 (4.6)	Not reached [-; -]	4.72 [2.67; 8.33]	< 0.001
Rest of World	194	26 (13.4)	Not reached [-; -]	163	7 (4.3)	Not reached [-; -]	3.38 [1.47; 7.78]	0.004
a: Database Cutoff Date: 04JAN2022 b: Number of participants: all-participants-as-treated population c: From product-limit (Kaplan-Meier) method for censored data d: Based on Cox regression model with treatment as a covariate using Wald confidence interval e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group) f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term) g: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom CI: Confidence Interval; WHO: World Health Organization								

***Unerwünschte Ereignisse (gegliedert nach SOC und PT)******Unerwünschte Ereignisse gesamt (SOC und PT)***Tabelle 4G-26: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Unerwünschte Ereignisse gesamt (SOC)

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo			Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
Adverse Events	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>		
<b>SOC<sup>g</sup>: Endocrine disorders</b>									
Sex									
Male	297 (23.9)	71 [-; -]	Not reached	287 (3.1)	9 [-; -]	Not reached	9.28 [4.64; 18.58]	< 0.001	0.169
Female	186 (30.1)	56 [-; -]	Not reached	199 (7.5)	15 [-; -]	Not reached	4.76 [2.69; 8.42]	< 0.001	
Age Group									
< 65	299 (28.1)	84 [-; -]	Not reached	295 (5.1)	15 [-; -]	Not reached	6.62 [3.82; 11.47]	< 0.001	0.807
≥ 65	184 (23.4)	43 [-; -]	Not reached	191 (4.7)	9 [-; -]	Not reached	5.93 [2.89; 12.16]	< 0.001	
Severity of disease: T-Stage									
IIB T3b	199 (26.6)	53 [-; -]	Not reached	200 (4.5)	9 [-; -]	Not reached	7.09 [3.50; 14.39]	< 0.001	0.901
IIB T4a	107 (27.1)	29 [-; -]	Not reached	116 (6.0)	7 [-; -]	Not reached	5.39 [2.36; 12.31]	< 0.001	
IIC T4b	170 (25.9)	44 [-; -]	Not reached	169 (4.7)	8 [-; -]	Not reached	6.33 [2.98; 13.44]	< 0.001	
Geographic Region									
WHO Stratum A <sup>h</sup>	289 (26.0)	75 [-; -]	Not reached	323 (4.3)	14 [-; -]	Not reached	7.13 [4.03; 12.62]	< 0.001	0.460
Rest of World	194 (26.8)	52 [-; -]	Not reached	163 (6.1)	10 [-; -]	Not reached	5.27 [2.68; 10.37]	< 0.001	
ECOG Performance Status									
0	450 (26.7)	120 [-; -]	Not reached	449 (5.1)	23 [-; -]	Not reached	6.28 [4.02; 9.81]	< 0.001	0.752
1	32 (21.9)	7 [-; -]	Not reached	35 (2.9)	1 [-; -]	Not reached	8.28 [1.02; 67.36]	0.048	
<b>SOC<sup>g</sup>: Eye disorders</b>									
Sex									
Male	297 (7.1)	21 [-; -]	Not reached	287 (4.9)	14 [-; -]	Not reached	1.61 [0.82; 3.17]	0.166	0.352
Female	186 (18.3)	34 [-; -]	Not reached	199 (8.0)	16 [-; -]	Not reached	2.50 [1.38; 4.52]	0.003	
Age Group									
< 65	299 (9.4)	28 [-; -]	Not reached	295 (6.4)	19 [-; -]	Not reached	1.59 [0.89; 2.84]	0.120	0.186
≥ 65	184 (14.7)	27 [-; -]	Not reached	191 (5.8)	11 [-; -]	Not reached	2.90 [1.44; 5.86]	0.003	
Severity of disease: T-Stage									
IIB T3b	199 (13.1)	26 [-; -]	Not reached	200 (7.5)	15 [-; -]	Not reached	1.92 [1.02; 3.63]	0.044	0.979
IIB T4a	107 (11.2)	12 [-; -]	Not reached	116 (6.0)	7 [-; -]	Not reached	2.07 [0.82; 5.28]	0.125	

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab		Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
Adverse Events	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>e</sup>	
IIC T4b	170	16 (9.4)	Not reached [-; -]	169	8 (4.7)	Not reached [-; -]	2.17 [0.93; 5.08]	0.073
Geographic Region								
WHO Stratum A <sup>h</sup>	289	37 (12.8)	Not reached [-; -]	323	21 (6.5)	Not reached [-; -]	2.22 [1.30; 3.79]	0.004
Rest of World	194	18 (9.3)	Not reached [-; -]	163	9 (5.5)	Not reached [-; -]	1.82 [0.82; 4.05]	0.144
ECOG Performance Status								
0	450	50 (11.1)	Not reached [-; -]	449	27 (6.0)	Not reached [-; -]	2.06 [1.29; 3.29]	0.002
1	32	5 (15.6)	Not reached [-; -]	35	3 (8.6)	Not reached [-; -]	1.85 [0.44; 7.77]	0.399
SOC <sup>g</sup> : Gastrointestinal disorders								
Sex								
Male	297	155 (52.2)	33.7 [24.9; 47.1]	287	98 (34.1)	Not reached [-; -]	1.74 [1.35; 2.24]	< 0.001
Female	186	115 (61.8)	22.4 [13.7; 32.1]	199	99 (49.7)	44.1 [28.1; -]	1.44 [1.10; 1.88]	0.008
Age Group								
< 65	299	160 (53.5)	36.6 [24.3; 52.1]	295	124 (42.0)	Not reached [-; -]	1.41 [1.12; 1.79]	0.146
≥ 65	184	110 (59.8)	24.7 [15.4; 31.3]	191	73 (38.2)	Not reached [53.0; -]	1.89 [1.40; 2.54]	< 0.001
Severity of disease: T-Stage								
IIB T3b	199	122 (61.3)	26.9 [18.1; 34.9]	200	78 (39.0)	Not reached [-; -]	1.87 [1.41; 2.49]	< 0.001
IIB T4a	107	60 (56.1)	26.4 [15.1; -]	116	57 (49.1)	47.3 [21.0; -]	1.25 [0.87; 1.79]	0.236
IIC T4b	170	86 (50.6)	36.6 [24.7; -]	169	62 (36.7)	Not reached [-; -]	1.54 [1.11; 2.14]	0.009
Geographic Region								
WHO Stratum A <sup>h</sup>	289	169 (58.5)	27.1 [20.9; 34.1]	323	130 (40.2)	Not reached [-; -]	1.71 [1.36; 2.15]	< 0.001
Rest of World	194	101 (52.1)	34.7 [20.4; -]	163	67 (41.1)	Not reached [42.1; -]	1.39 [1.02; 1.89]	0.039
ECOG Performance Status								
0	450	257 (57.1)	27.6 [23.4; 34.1]	449	184 (41.0)	Not reached [-; -]	1.60 [1.33; 1.94]	< 0.001
1	32	13 (40.6)	60.6 [17.9; -]	35	13 (37.1)	Not reached [42.1; -]	1.13 [0.53; 2.45]	0.750
SOC <sup>g</sup> : Musculoskeletal and connective tissue disorders								
Sex								
Male	297	121 (40.7)	Not reached [42.1; -]	287	97 (33.8)	Not reached [60.1; -]	1.38 [1.06; 1.81]	0.018
Female	186	97 (52.2)	33.1 [26.6; -]	199	86 (43.2)	Not reached [40.9; -]	1.40 [1.05; 1.88]	0.022
Age Group								
< 65	299	132 (44.1)	Not reached [39.9; -]	295	116 (39.3)	Not reached [60.1; -]	1.25 [0.97; 1.60]	0.226

Study: KEYNOTE 716 <sup>a</sup>		Pembrolizumab		Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>	
Adverse Events	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>		
≥ 65	184	86 (46.7)	37.9 [29.9; -]	191	67 (35.1)	Not reached [54.0; -]	1.63 [1.18; 2.25]	0.003	
Severity of disease: T-Stage									
IIB T3b	199	90 (45.2)	52.3 [35.6; -]	200	83 (41.5)	60.1 [45.1; -]	1.15 [0.85; 1.55]	0.364	0.108
IIB T4a	107	46 (43.0)	Not reached [31.1; -]	116	46 (39.7)	Not reached [50.1; -]	1.26 [0.84; 1.90]	0.268	
IIC T4b	170	81 (47.6)	40.4 [27.3; -]	169	54 (32.0)	Not reached [-; -]	1.85 [1.31; 2.61]	< 0.001	
Geographic Region									
WHO Stratum A <sup>h</sup>	289	132 (45.7)	51.4 [35.6; -]	323	112 (34.7)	Not reached [60.1; -]	1.57 [1.22; 2.02]	< 0.001	0.069
Rest of World	194	86 (44.3)	52.3 [32.9; -]	163	71 (43.6)	54.7 [39.1; -]	1.09 [0.79; 1.49]	0.606	
ECOG Performance Status									
0	450	205 (45.6)	51.0 [36.1; -]	449	173 (38.5)	Not reached [60.1; -]	1.36 [1.11; 1.66]	0.003	0.643
1	32	13 (40.6)	Not reached [18.1; -]	35	10 (28.6)	Not reached [44.6; -]	1.66 [0.73; 3.78]	0.231	
SOC <sup>g</sup> : Nervous system disorders									
Sex									
Male	297	75 (25.3)	Not reached [60.7; -]	287	65 (22.6)	Not reached [60.6; -]	1.20 [0.86; 1.68]	0.277	0.442
Female	186	70 (37.6)	Not reached [54.0; -]	199	55 (27.6)	Not reached [-; -]	1.45 [1.02; 2.06]	0.041	
Age Group									
< 65	299	99 (33.1)	Not reached [60.7; -]	295	75 (25.4)	Not reached [-; -]	1.40 [1.04; 1.90]	0.027	0.378
≥ 65	184	46 (25.0)	Not reached [-; -]	191	45 (23.6)	Not reached [60.6; -]	1.14 [0.76; 1.72]	0.526	
Severity of disease: T-Stage									
IIB T3b	199	61 (30.7)	60.7 [60.7; -]	200	55 (27.5)	Not reached [60.6; -]	1.21 [0.84; 1.74]	0.312	0.644
IIB T4a	107	31 (29.0)	Not reached [-; -]	116	29 (25.0)	Not reached [-; -]	1.24 [0.75; 2.06]	0.404	
IIC T4b	170	53 (31.2)	Not reached [-; -]	169	36 (21.3)	Not reached [-; -]	1.56 [1.02; 2.38]	0.041	
Geographic Region									
WHO Stratum A <sup>h</sup>	289	91 (31.5)	Not reached [-; -]	323	79 (24.5)	Not reached [-; -]	1.42 [1.05; 1.92]	0.022	0.355
Rest of World	194	54 (27.8)	Not reached [60.7; -]	163	41 (25.2)	Not reached [-; -]	1.13 [0.75; 1.69]	0.561	
ECOG Performance Status									
0	450	136 (30.2)	Not reached [60.7; -]	449	116 (25.8)	Not reached [-; -]	1.26 [0.98; 1.61]	0.070	0.200
1	32	9 (28.1)	Not reached [39.6; -]	35	4 (11.4)	Not reached [-; -]	2.70 [0.83; 8.79]	0.099	

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo			Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Adverse Events	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>e</sup>		
<b>SOC<sup>g</sup>: Renal and urinary disorders</b>									
Sex									
Male	297	34 (11.4)	Not reached [-; -]	287	17 (5.9)	Not reached [-; -]	2.19 [1.22; 3.92]	0.008	0.360
Female	186	16 (8.6)	Not reached [-; -]	199	13 (6.5)	Not reached [-; -]	1.41 [0.68; 2.93]	0.359	
Age Group									
< 65	299	25 (8.4)	Not reached [-; -]	295	17 (5.8)	Not reached [-; -]	1.57 [0.85; 2.91]	0.152	0.387
≥ 65	184	25 (13.6)	Not reached [60.0; -]	191	13 (6.8)	Not reached [-; -]	2.34 [1.20; 4.58]	0.013	
Severity of disease: T-Stage									
IIB T3b	199	18 (9.0)	Not reached [-; -]	200	10 (5.0)	Not reached [-; -]	1.97 [0.91; 4.28]	0.085	0.968
IIB T4a	107	11 (10.3)	Not reached [60.0; -]	116	8 (6.9)	Not reached [-; -]	1.70 [0.68; 4.23]	0.254	
IIC T4b	170	21 (12.4)	Not reached [-; -]	169	12 (7.1)	Not reached [-; -]	1.86 [0.92; 3.78]	0.086	
Geographic Region									
WHO Stratum A <sup>h</sup>	289	21 (7.3)	Not reached [-; -]	323	20 (6.2)	Not reached [-; -]	1.29 [0.70; 2.38]	0.414	0.120
Rest of World	194	29 (14.9)	Not reached [-; -]	163	10 (6.1)	Not reached [-; -]	2.66 [1.29; 5.46]	0.008	
ECOG Performance Status									
0	450	48 (10.7)	Not reached [-; -]	449	29 (6.5)	Not reached [-; -]	1.85 [1.16; 2.93]	0.009	0.872
1	32	2 (6.3)	Not reached [-; -]	35	1 (2.9)	Not reached [57.1; -]	2.49 [0.22; 27.56]	0.458	
<b>SOC<sup>g</sup>: Skin and subcutaneous tissue disorders</b>									
Sex									
Male	297	165 (55.6)	27.1 [18.1; 33.0]	287	108 (37.6)	Not reached [-; -]	1.95 [1.53; 2.49]	< 0.001	0.640
Female	186	113 (60.8)	18.4 [12.6; 30.1]	199	86 (43.2)	Not reached [37.3; -]	1.78 [1.34; 2.35]	< 0.001	
Age Group									
< 65	299	164 (54.8)	27.1 [21.0; 41.1]	295	112 (38.0)	Not reached [-; -]	1.80 [1.42; 2.29]	< 0.001	0.572
≥ 65	184	114 (62.0)	15.1 [11.1; 24.4]	191	82 (42.9)	Not reached [37.4; -]	2.01 [1.51; 2.68]	< 0.001	
Severity of disease: T-Stage									
IIB T3b	199	109 (54.8)	27.1 [15.1; 36.4]	200	90 (45.0)	Not reached [33.4; -]	1.48 [1.12; 1.96]	0.006	0.074
IIB T4a	107	72 (67.3)	12.1 [7.3; 21.0]	116	47 (40.5)	Not reached [37.4; -]	2.41 [1.66; 3.49]	< 0.001	
IIC T4b	170	94 (55.3)	27.1 [18.1; 49.0]	169	57 (33.7)	Not reached [-; -]	2.10 [1.51; 2.92]	< 0.001	
Geographic Region									
WHO Stratum A <sup>h</sup>	289	172 (59.5)	19.9 [15.1; 29.9]	323	128 (39.6)	Not reached [-; -]	2.03 [1.61; 2.55]	< 0.001	0.281
Rest of World	194	106 (54.6)	27.1 [17.4; 39.1]	163	66 (40.5)	Not reached [45.0; -]	1.65 [1.21; 2.25]	0.001	

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Adverse Events	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
ECOG Performance Status								
0	450 (56.7)	255 [17.4; 31.0]	24.4	449 (39.4)	177 [-; -]	Not reached	1.85 [1.53; 2.25]	< 0.001 0.949
1	32 (68.8)	22 [8.9; 30.7]	23.0	35 (45.7)	16 [20.1; -]	38.6	2.00 [1.05; 3.82]	0.035

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: all-participants-as-treated population  
 c: From product-limit (Kaplan-Meier) method for censored data  
 d: Based on Cox regression model with treatment as a covariate using Wald confidence interval  
 e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)  
 f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)  
 g: A system organ class appears on this report only if its incidence  $\geq 10\%$  or (incidence  $\geq 1\%$  and in at least 10 participants) in one or more treatment groups and p-value of main treatment effect is smaller than 0.05 or rule of 10 is not met  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; SOC: System Organ Class; WHO: World Health Organization

### Schwerwiegende unerwünschte Ereignisse (SOC und PT)

Tabelle 4G-27: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0.05$ ) für den Endpunkt Schwerwiegende unerwünschte Ereignisse (SOC)

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>	
	Adverse Events	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>		
<b>SOC<sup>g</sup>: Endocrine disorders</b>									
Sex									
Male	297 (3.0)	9 n.c.	n.c.	287 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
Female	186 (0.5)	1 n.c.	n.c.	199 (0.0)	0 n.c.	n.c.	n.c.		
Age Group									
< 65	299 (1.7)	5 n.c.	n.c.	295 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
$\geq 65$	184 (2.7)	5 n.c.	n.c.	191 (0.0)	0 n.c.	n.c.	n.c.		
Severity of disease: T-Stage									
IIB T3b	199 (2.0)	4 n.c.	n.c.	200 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
IIB T4a	107 (2.8)	3 n.c.	n.c.	116 (0.0)	0 n.c.	n.c.	n.c.		
IIC T4b	170 (1.8)	3 n.c.	n.c.	169 (0.0)	0 n.c.	n.c.	n.c.		
Geographic Region									
WHO Stratum A <sup>h</sup>	289 (1.7)	5 n.c.	n.c.	323 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
Rest of World	194 (2.6)	5 n.c.	n.c.	163 (0.0)	0 n.c.	n.c.	n.c.		

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	
<b>ECOG Performance Status</b>								
0	450	10 (2.2)	Not reached [-; -]	449	0 (0.0)	Not reached [-; -]	n.a. [n.a.; n.a.]	0.001
1	32	0 (0.0)	Not reached [-; -]	35	0 (0.0)	Not reached [-; -]	n.a. [n.a.; n.a.]	
<b>SOC<sup>g</sup>: Gastrointestinal disorders</b>								
<b>Sex</b>								
Male	297	9 (3.0)	Not reached [-; -]	287	1 (0.3)	Not reached [-; -]	9.48 [1.20; 74.86]	0.033
Female	186	4 (2.2)	Not reached [-; -]	199	0 (0.0)	Not reached [-; -]	n.a. [n.a.; n.a.]	0.034
<b>Age Group</b>								
< 65	299	6 (2.0)	n.c.	295	0 (0.0)	n.c.	n.c.	n.c.
≥ 65	184	7 (3.8)	n.c.	191	1 (0.5)	n.c.	n.c.	
<b>Severity of disease: T-Stage</b>								
IIB T3b	199	4 (2.0)	n.c.	200	1 (0.5)	n.c.	n.c.	n.c.
IIB T4a	107	5 (4.7)	n.c.	116	0 (0.0)	n.c.	n.c.	
IIC T4b	170	4 (2.4)	n.c.	169	0 (0.0)	n.c.	n.c.	
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>	289	8 (2.8)	n.c.	323	0 (0.0)	n.c.	n.c.	n.c.
Rest of World	194	5 (2.6)	n.c.	163	1 (0.6)	n.c.	n.c.	

a: Database Cutoff Date: 04JAN2022  
b: Number of participants: all-participants-as-treated population  
c: From product-limit (Kaplan-Meier) method for censored data  
d: Based on Cox regression model with treatment as a covariate using Wald confidence interval  
e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)  
f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)  
g: A system organ class appears on this report only if its incidence ≥ 5% or (incidence ≥ 1% and in at least 10 participants) in one or more treatment groups and p-value of main treatment effect is smaller than 0.05 or rule of 10 is not met  
h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; n.a.: not applicable (when estimation not possible); n.c.: not calculated.  
At least 10 participants per subgroup and at least 10 events in one of the subgroups necessary; SOC: System Organ Class; WHO: World Health Organization

*Schwere unerwünschte Ereignisse (CTCAE-Grad 3–5) (SOC und PT)*Tabelle 4G-28: Subgruppenanalysen mit nicht signifikantem Interaktionstest ( $p \geq 0,05$ ) für den Endpunkt Schwere unerwünschte Ereignisse (CTCAE-Grad 3–5) (SOC)

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab		Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>	
	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>e</sup>		
<b>SOC<sup>g</sup>: Endocrine disorders</b>								
Sex								
Male	297 (3.0)	9 n.c.	287 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
Female	186 (0.5)	1 n.c.	199 (0.0)	0 n.c.	n.c.	n.c.		
Age Group								
< 65	299 (1.3)	4 n.c.	295 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
≥ 65	184 (3.3)	6 n.c.	191 (0.0)	0 n.c.	n.c.	n.c.		
Severity of disease: T-Stage								
IIB T3b	199 (2.0)	4 n.c.	200 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
IIB T4a	107 (2.8)	3 n.c.	116 (0.0)	0 n.c.	n.c.	n.c.		
IIC T4b	170 (1.8)	3 n.c.	169 (0.0)	0 n.c.	n.c.	n.c.		
Geographic Region								
WHO Stratum A <sup>h</sup>	289 (2.1)	6 n.c.	323 (0.0)	0 n.c.	n.c.	n.c.	n.c.	
Rest of World	194 (2.1)	4 n.c.	163 (0.0)	0 n.c.	n.c.	n.c.		
ECOG Performance Status								
0	450 (2.2)	10 Not reached [-; -]	449 (0.0)	0 Not reached [-; -]	n.a. [n.a.; n.a.]	0.001	0.997	
1	32 (0.0)	0 Not reached [-; -]	35 (0.0)	0 Not reached [-; -]	n.a. [n.a.; n.a.]	n.a.		
<b>SOC<sup>g</sup>: Gastrointestinal disorders</b>								
Sex								
Male	297 (5.7)	17 Not reached [-; -]	287 (0.3)	1 Not reached [-; -]	18.47 [2.46; 138.74]	0.005	0.436	
Female	186 (3.2)	6 Not reached [-; -]	199 (0.0)	0 Not reached [-; -]	n.a. [n.a.; n.a.]	0.011		
Age Group								
< 65	299 (4.3)	13 Not reached [-; -]	295 (0.0)	0 Not reached [-; -]	n.a. [n.a.; n.a.]	< 0.001	0.221	
≥ 65	184 (5.4)	10 Not reached [-; -]	191 (0.5)	1 Not reached [-; -]	11.95 [1.53; 93.40]	0.018		
Severity of disease: T-Stage								
IIB T3b	199 (4.5)	9 Not reached [-; -]	200 (0.5)	1 Not reached [-; -]	9.89 [1.25; 78.09]	0.030	0.407	
IIB T4a	107 (4.7)	5 Not reached [-; -]	116 (0.0)	0 Not reached [-; -]	n.a. [n.a.; n.a.]	0.015		
IIC T4b	170 (5.3)	9 Not reached [-; -]	169 (0.0)	0 Not reached [-; -]	n.a. [n.a.; n.a.]	0.002		

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
Severe Adverse Events (CTCAE-Grade 3-5)	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	N <sup>b</sup>	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>e</sup>	
Geographic Region								
WHO Stratum A <sup>h</sup>	289 (4.8)	14 [-; -]	Not reached	323 (0.0)	0 [-; -]	Not reached	n.a. [n.a.; n.a.]	< 0.001
Rest of World	194 (4.6)	9 [-; -]	Not reached	163 (0.6)	1 [-; -]	Not reached	8.18 [1.04; 64.55]	0.046
SOC <sup>g</sup> : Hepatobiliary disorders								
Sex								
Male	297 (2.7)	8 n.c.		287 (0.3)	1 n.c.	n.c.	n.c.	n.c.
Female	186 (1.6)	3 n.c.		199 (0.5)	1 n.c.	n.c.	n.c.	
Age Group								
< 65	299 (2.3)	7 n.c.		295 (0.3)	1 n.c.	n.c.	n.c.	n.c.
≥ 65	184 (2.2)	4 n.c.		191 (0.5)	1 n.c.	n.c.	n.c.	
Severity of disease: T-Stage								
IIB T3b	199 (1.5)	3 n.c.		200 (0.0)	0 n.c.	n.c.	n.c.	n.c.
IIB T4a	107 (0.9)	1 n.c.		116 (0.9)	1 n.c.	n.c.	n.c.	
IIC T4b	170 (4.1)	7 n.c.		169 (0.6)	1 n.c.	n.c.	n.c.	
Geographic Region								
WHO Stratum A <sup>h</sup>	289 (2.4)	7 n.c.		323 (0.6)	2 n.c.	n.c.	n.c.	n.c.
Rest of World	194 (2.1)	4 n.c.		163 (0.0)	0 n.c.	n.c.	n.c.	
ECOG Performance Status								
0	450 (2.2)	10 [-; -]	Not reached	449 (0.4)	2 [-; -]	Not reached	5.26 [1.15; 24.00]	0.032
1	32 (3.1)	1 [-; -]	Not reached	35 (0.0)	0 [-; -]	Not reached	n.a. [n.a.; n.a.]	0.292
SOC <sup>g</sup> : Skin and subcutaneous tissue disorders								
Sex								
Male	297 (4.4)	13 [-; -]	Not reached	287 (0.3)	1 [-; -]	Not reached	13.64 [1.78; 104.29]	0.012
Female	186 (1.1)	2 [-; -]	Not reached	199 (1.0)	2 [-; -]	Not reached	1.11 [0.16; 7.92]	0.913
Age Group								
< 65	299 (1.0)	3 [-; -]	Not reached	295 (0.7)	2 [-; -]	Not reached	1.57 [0.26; 9.39]	0.622
≥ 65	184 (6.5)	12 [-; -]	Not reached	191 (0.5)	1 [-; -]	Not reached	13.82 [1.80; 106.36]	0.012
Severity of disease: T-Stage								
IIB T3b	199 (3.5)	7 n.c.		200 (1.0)	2 n.c.	n.c.	n.c.	n.c.
IIB T4a	107 (4.7)	5 n.c.		116 (0.0)	0 n.c.	n.c.	n.c.	
IIC T4b	170 (1.8)	3 n.c.		169 (0.6)	1 n.c.	n.c.	n.c.	

Study: KEYNOTE 716 <sup>a</sup>	Pembrolizumab			Placebo		Pembrolizumab vs. Placebo		p-Value for Interaction Test <sup>f</sup>
	Severe Adverse Events (CTCAE-Grade 3-5)	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Participants with Event n (%)	Median Time <sup>c</sup> in Weeks [95 %-CI]	Hazard Ratio [95 %-CI] <sup>d</sup>	p-Value <sup>d,e</sup>	
<b>Geographic Region</b>								
WHO Stratum A <sup>h</sup>	289 (3.5)	10 [-; -]	Not reached	323 (0.6)	2 [-; -]	Not reached	6.18 [1.35; 28.24]	0.019
Rest of World	194 (2.6)	5 [-; -]	Not reached	163 (0.6)	1 [-; -]	Not reached	4.30 [0.50; 36.82]	0.183
<b>ECOG Performance Status</b>								
0	450 (2.9)	13 [-; -]	Not reached	449 (0.7)	3 [-; -]	Not reached	4.64 [1.32; 16.28]	0.017
1	32 (6.3)	2 [54.0; -]	Not reached	35 (0.0)	0 [-; -]	Not reached	n.a. [n.a.; n.a.]	0.163

a: Database Cutoff Date: 04JAN2022  
 b: Number of participants: all-participants-as-treated population  
 c: From product-limit (Kaplan-Meier) method for censored data  
 d: Based on Cox regression model with treatment as a covariate using Wald confidence interval  
 e: Two-sided p-value using Wald test (Score test in case of zero event in one treatment group)  
 f: Based on Cox model with treatment and subgroup as covariates, and treatment-by-subgroup interaction (p-value of likelihood ratio test for interaction term)  
 g: A system organ class appears on this report only if its incidence  $\geq 5\%$  or (incidence  $\geq 1\%$  and in at least 10 participants) in one or more treatment groups and p-value of main treatment effect is smaller than 0.05 or rule of 10 is not met  
 h: WHO stratum A includes following countries: Australia, Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom  
 CI: Confidence Interval; CTCAE: Common Terminology Criteria for Adverse Events; ECOG: Eastern Cooperative Oncology Group; n.a.: not applicable (when estimation not possible); n.c.: not calculated. At least 10 participants per subgroup and at least 10 events in one of the subgroups necessary; SOC: System Organ Class; WHO: World Health Organization

## Anhang 4-G4: Teil II der Studie KEYNOTE 716

Der Fokus der vorliegenden Nutzenbewertung liegt auf der Behandlung des adjuvanten Melanoms und somit auf Teil I der Studie. Im Nachfolgenden werden ergänzend zu Abschnitt 4.3.1.2.1 und Abschnitt 4.3.1.3.1.3 Daten zu Teil II der Studie KEYNOTE 716 gezeigt. Auf vergleichende Analysen mit Berechnung von Effektschätzern wird deshalb, wie auch unter 4.3.1.2.1 dargelegt, verzichtet. Zudem sind zum vorliegenden 3. Datenschnitt (04.01.2022) nur sehr wenige Patienten aus Teil I der Studie in Teil II übergegangen und hiervon ist der Großteil noch laufend. Lediglich 20,4 % der Patienten, die von Placebo in den Pembrolizumab-Arm gewechselt sind und 0 % der Patienten, die erneut Pembrolizumab erhalten haben, haben zum Zeitpunkt des 3. Datenschnitts die Studienmedikation vollständig erhalten (siehe Tabelle 4-18 in Modul 4A Charakterisierung der Studienpopulation [Therapieabbrecher, Studienabbrechern] – RCT mit dem zu bewertenden Arzneimittel). Um jedoch auch Daten zur Sicherheit aus Teil II der Studie KEYNOTE 716 zu zeigen, werden diese deskriptiv als Inzidenzen auf Basis der All-Participants-as-Treated-Population dargestellt, diese umfasst alle Patienten, die mindestens eine Dosis der Studienmedikation erhalten haben.

### Anhang 4-G4.1: Studienpopulation in Teil II der Studie KEYNOTE 716

Tabelle 4G-29: Studienpopulation mit Crossover oder Rechallenge mit Pembrolizumab in Teil II der Studie KEYNOTE 716

	Pembrolizumab	Placebo	Total
	n (%)	n (%)	n (%)
Participants in population	487	489	976
Participants Crossover/re-treat in Part 2	4 (0.8)	49 (10.0)	53 (5.4)
Database Cutoff Date: 04JAN2022			

Tabelle 4G-30: Charakterisierung der Studienpopulation aus Teil II der Studie KEYNOTE 716

	Pembrolizumab Rechallenge	Crossover to Pembrolizumab	Total
	n (%)	n (%)	n (%)
Participants in population	4	49	53
<b>Sex</b>			
Male	2 (50.0)	32 (65.3)	34 (64.2)
Female	2 (50.0)	17 (34.7)	19 (35.8)
<b>Age (Years)</b>			
12 - 17	0 (0.0)	0 (0.0)	0 (0.0)
18 - 64	4 (100.0)	23 (46.9)	27 (50.9)
≥ 65	0 (0.0)	26 (53.1)	26 (49.1)
Mean	44.3	61.4	60.1
SD	9.5	13.1	13.6
Median	44.0	65.0	64.0
Range	33 to 56	20 to 79	20 to 79

	Pembrolizumab Rechallenge	Crossover to Pembrolizumab	Total	
	n (%)	n (%)	n (%)	n (%)
<b>Race</b>				
White	3 (75.0)	43 (87.8)	46	(86.8)
Missing	1 (25.0)	6 (12.2)	7	(13.2)
<b>Ethnicity</b>				
Hispanic Or Latino	2 (50.0)	1 (2.0)	3	(5.7)
Not Hispanic Or Latino	1 (25.0)	42 (85.7)	43	(81.1)
Not Reported	1 (25.0)	6 (12.2)	7	(13.2)
<b>Geographic Region</b>				
US	0 (0.0)	7 (14.3)	7	(13.2)
Non-US	4 (100.0)	42 (85.7)	46	(86.8)
<b>ECOG</b>				
0	4 (100.0)	47 (95.9)	51	(96.2)
1	0 (0.0)	2 (4.1)	2	(3.8)
<b>LDH</b>				
≤ ULN	1 (25.0)	26 (53.1)	27	(50.9)
Missing	3 (75.0)	23 (46.9)	26	(49.1)
<b>KPS Status</b>				
Not Applicable	4 (100.0)	49 (100.0)	53	(100.0)
<b>T-Stage</b>				
T3b	0 (0.0)	19 (38.8)	19	(35.8)
T4a	2 (50.0)	14 (28.6)	16	(30.2)
T4b	2 (50.0)	16 (32.7)	18	(34.0)
<b>Nodal Involvement</b>				
N0	4 (100.0)	49 (100.0)	53	(100.0)
<b>Metastatic Staging</b>				
M0	4 (100.0)	49 (100.0)	53	(100.0)
<b>Overall Cancer Stage</b>				
IIB	2 (50.0)	33 (67.3)	35	(66.0)
IIC	2 (50.0)	16 (32.7)	18	(34.0)
<b>Stratification</b>				
IIB T3b >2.0-4.0 mm with ulceration	1 (25.0)	18 (36.7)	19	(35.8)
IIB T4a >4.0 mm without ulceration	1 (25.0)	14 (28.6)	15	(28.3)
IIC T4b >4.0 mm with ulceration	2 (50.0)	17 (34.7)	19	(35.8)
ECOG is not applicable for pediatric participants. KPS is not applicable for adult participants.				
Database Cutoff Date: 04JAN2022.				

**Anhang 4-G4.2: Nebenwirkungen in Teil II der Studie KEYNOTE 716*****Unerwünschte Ereignisse***

Tabelle 4G-31: Überblick Unerwünschte Ereignisse in Teil II der Studie KEYNOTE 716

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Participants in population	4		49	
with one or more adverse events	2	(50.0)	39	(79.6)
with no adverse event	2	(50.0)	10	(20.4)
with drug-related <sup>a</sup> adverse events	2	(50.0)	24	(49.0)
with toxicity grade 3-5 adverse events	0	(0.0)	10	(20.4)
with toxicity grade 3-5 drug-related adverse events	0	(0.0)	4	(8.2)
with serious adverse events	0	(0.0)	7	(14.3)
with serious drug-related adverse events	0	(0.0)	2	(4.1)
who died	0	(0.0)	0	(0.0)
who died due to a drug-related adverse event	0	(0.0)	0	(0.0)
discontinued drug due to an adverse event	0	(0.0)	5	(10.2)
discontinued drug due to a drug-related adverse event	0	(0.0)	4	(8.2)
discontinued drug due to a serious adverse event	0	(0.0)	3	(6.1)
discontinued drug due to a serious drug-related adverse event	0	(0.0)	2	(4.1)

<sup>a</sup> Determined by the investigator to be related to the drug.  
Grades are based on NCI CTCAE version 4.03.  
AEs were followed 30 days after last dose of study treatment in Part 2. SAEs were followed 90 days after last dose of study treatment in Part 2.  
MedDRA V24.1 preferred terms "Neoplasm progression", "Malignant neoplasm progression" and "Disease progression" not related to the drug are excluded.  
Database Cutoff Date: 04JAN2022.

***Unerwünschte Ereignisse gesamt***

Tabelle 4G-32: Unerwünschte Ereignisse gesamt in Teil II der Studie KEYNOTE 716

(Inzidenz &gt; 0 % in einer oder mehreren Behandlungsgruppen)

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Participants in population	4		49	
with one or more adverse events	2	(50.0)	39	(79.6)
with no adverse events	2	(50.0)	10	(20.4)
Asthenia	1	(25.0)	4	(8.2)
Fatigue	1	(25.0)	2	(4.1)
Myalgia	1	(25.0)	1	(2.0)
Abdominal pain	0	(0.0)	3	(6.1)
Alanine aminotransferase increased	0	(0.0)	3	(6.1)
Alopecia	0	(0.0)	1	(2.0)
Anaemia	0	(0.0)	1	(2.0)
Angiodysplasia	0	(0.0)	1	(2.0)
Anxiety	0	(0.0)	2	(4.1)
Appendicitis	0	(0.0)	1	(2.0)
Arthralgia	0	(0.0)	1	(2.0)
Arthritis	0	(0.0)	1	(2.0)

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Aspartate aminotransferase increased	0	(0.0)	2	(4.1)
Asthma	0	(0.0)	1	(2.0)
Back pain	0	(0.0)	1	(2.0)
Bacterial rhinitis	0	(0.0)	1	(2.0)
Balance disorder	0	(0.0)	1	(2.0)
Basal cell carcinoma	0	(0.0)	1	(2.0)
Blood thyroid stimulating hormone increased	0	(0.0)	1	(2.0)
Breast mass	0	(0.0)	1	(2.0)
Cardiac failure	0	(0.0)	1	(2.0)
Cardiac murmur	0	(0.0)	1	(2.0)
Cerebral ischaemia	0	(0.0)	1	(2.0)
Chills	0	(0.0)	2	(4.1)
Conjunctivitis	0	(0.0)	1	(2.0)
Constipation	0	(0.0)	1	(2.0)
Cough	0	(0.0)	2	(4.1)
Decreased appetite	0	(0.0)	1	(2.0)
Dehydration	0	(0.0)	1	(2.0)
Dermatitis	0	(0.0)	1	(2.0)
Diarrhoea	0	(0.0)	5	(10.2)
Dizziness	0	(0.0)	5	(10.2)
Dry eye	0	(0.0)	1	(2.0)
Dry mouth	0	(0.0)	4	(8.2)
Dry skin	0	(0.0)	1	(2.0)
Dyspepsia	0	(0.0)	1	(2.0)
Dyspnoea	0	(0.0)	2	(4.1)
Dysuria	0	(0.0)	1	(2.0)
Ear pain	0	(0.0)	1	(2.0)
Eczema	0	(0.0)	1	(2.0)
Eczema eyelids	0	(0.0)	1	(2.0)
Embolism	0	(0.0)	1	(2.0)
Eosinophil count increased	0	(0.0)	1	(2.0)
Erectile dysfunction	0	(0.0)	1	(2.0)
Erythema	0	(0.0)	1	(2.0)
Erythema of eyelid	0	(0.0)	1	(2.0)
Eye pruritus	0	(0.0)	1	(2.0)
Gastroenteritis	0	(0.0)	1	(2.0)
Gastrooesophageal reflux disease	0	(0.0)	1	(2.0)
Genital herpes	0	(0.0)	1	(2.0)
Gingival pain	0	(0.0)	1	(2.0)
Glossitis	0	(0.0)	1	(2.0)
Groin pain	0	(0.0)	1	(2.0)
Haemangioma of skin	0	(0.0)	1	(2.0)
Haematochezia	0	(0.0)	1	(2.0)
Haematoma	0	(0.0)	1	(2.0)
Haematuria	0	(0.0)	1	(2.0)
Headache	0	(0.0)	4	(8.2)
Hepatotoxicity	0	(0.0)	1	(2.0)
Herpes simplex	0	(0.0)	1	(2.0)
Hot flush	0	(0.0)	1	(2.0)
Hyperglycaemia	0	(0.0)	2	(4.1)
Hyperthyroidism	0	(0.0)	5	(10.2)
Hypokalaemia	0	(0.0)	1	(2.0)
Hypophosphataemia	0	(0.0)	3	(6.1)

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Hypothyroidism	0	(0.0)	5	(10.2)
Incision site oedema	0	(0.0)	1	(2.0)
Incision site pain	0	(0.0)	2	(4.1)
Insomnia	0	(0.0)	4	(8.2)
Intermenstrual bleeding	0	(0.0)	1	(2.0)
Joint effusion	0	(0.0)	1	(2.0)
Limb injury	0	(0.0)	1	(2.0)
Lipase increased	0	(0.0)	1	(2.0)
Lung adenocarcinoma	0	(0.0)	1	(2.0)
Malaise	0	(0.0)	1	(2.0)
Mucinous adenocarcinoma of appendix	0	(0.0)	1	(2.0)
Muscle atrophy	0	(0.0)	1	(2.0)
Muscle spasms	0	(0.0)	1	(2.0)
Musculoskeletal chest pain	0	(0.0)	1	(2.0)
Musculoskeletal pain	0	(0.0)	2	(4.1)
Musculoskeletal stiffness	0	(0.0)	1	(2.0)
Myasthenia gravis	0	(0.0)	1	(2.0)
Nasal congestion	0	(0.0)	2	(4.1)
Nasopharyngitis	0	(0.0)	2	(4.1)
Nausea	0	(0.0)	1	(2.0)
Nephrolithiasis	0	(0.0)	1	(2.0)
Oral candidiasis	0	(0.0)	1	(2.0)
Osteoarthritis	0	(0.0)	1	(2.0)
Osteoporosis	0	(0.0)	2	(4.1)
Otitis media	0	(0.0)	1	(2.0)
Pain in extremity	0	(0.0)	1	(2.0)
Pancreatitis	0	(0.0)	1	(2.0)
Pelvic pain	0	(0.0)	1	(2.0)
Pharyngeal erythema	0	(0.0)	1	(2.0)
Pneumonia	0	(0.0)	1	(2.0)
Pneumonitis	0	(0.0)	1	(2.0)
Pneumonitis aspiration	0	(0.0)	1	(2.0)
Pollakiuria	0	(0.0)	1	(2.0)
Poor dental condition	0	(0.0)	1	(2.0)
Postoperative wound infection	0	(0.0)	2	(4.1)
Procedural pain	0	(0.0)	1	(2.0)
Pruritus	0	(0.0)	7	(14.3)
Pyrexia	0	(0.0)	3	(6.1)
Rash	0	(0.0)	4	(8.2)
Rash pruritic	0	(0.0)	1	(2.0)
Renal colic	0	(0.0)	1	(2.0)
Respiratory tract infection	0	(0.0)	1	(2.0)
Retinal haemorrhage	0	(0.0)	1	(2.0)
Rib fracture	0	(0.0)	1	(2.0)
Scar pain	0	(0.0)	1	(2.0)
Seborrhoeic dermatitis	0	(0.0)	1	(2.0)
Seborrhoeic keratosis	0	(0.0)	1	(2.0)
Seminoma	0	(0.0)	1	(2.0)
Skin exfoliation	0	(0.0)	1	(2.0)
Skin fissures	0	(0.0)	1	(2.0)
Skin lesion	0	(0.0)	1	(2.0)
Skin mass	0	(0.0)	1	(2.0)
Sleep disorder	0	(0.0)	1	(2.0)

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Spinal compression fracture	0	(0.0)	1	(2.0)
Spinal fracture	0	(0.0)	1	(2.0)
Stomatitis	0	(0.0)	2	(4.1)
Stress	0	(0.0)	1	(2.0)
Suspected COVID-19	0	(0.0)	1	(2.0)
Swelling	0	(0.0)	1	(2.0)
Tachycardia	0	(0.0)	1	(2.0)
Tendon rupture	0	(0.0)	1	(2.0)
Thyroiditis	0	(0.0)	1	(2.0)
Tinnitus	0	(0.0)	1	(2.0)
Tonsillar hypertrophy	0	(0.0)	1	(2.0)
Tonsillitis	0	(0.0)	1	(2.0)
Tricuspid valve incompetence	0	(0.0)	1	(2.0)
Upper respiratory tract infection	0	(0.0)	1	(2.0)
Urinary tract infection	0	(0.0)	2	(4.1)
Urinary tract pain	0	(0.0)	1	(2.0)
Vaginal lesion	0	(0.0)	1	(2.0)
Vertigo	0	(0.0)	1	(2.0)
Vitamin D deficiency	0	(0.0)	1	(2.0)
Vitiligo	0	(0.0)	1	(2.0)
Vomiting	0	(0.0)	1	(2.0)
Vulval ulceration	0	(0.0)	1	(2.0)
Vulvovaginal candidiasis	0	(0.0)	1	(2.0)
Weight decreased	0	(0.0)	2	(4.1)
White blood cell count decreased	0	(0.0)	1	(2.0)

Every participant is counted a single time for each applicable row and column.  
 NCI CTCAE version 4.03.  
 AEs were followed 30 days after last dose of study treatment in Part 2. SAEs were followed 90 days after last dose of study treatment in Part 2.  
 MedDRA V24.1 preferred terms "Neoplasm progression", "Malignant neoplasm progression" and "Disease progression" not related to the drug are excluded.  
 Database Cutoff Date: 04JAN2022.

### *Schwerwiegende unerwünschte Ereignisse*

Tabelle 4G-33: Schwerwiegende unerwünschte Ereignisse in Teil II der Studie

KEYNOTE 716 (Inzidenz &gt; 0 % in einer oder mehreren Behandlungsgruppen)

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Participants in population	4		49	
with one or more adverse events	0	(0.0)	7	(14.3)
with no adverse events	4	(100.0)	42	(85.7)
Appendicitis	0	(0.0)	1	(2.0)
Basal cell carcinoma	0	(0.0)	1	(2.0)
Cardiac failure	0	(0.0)	1	(2.0)
Embolism	0	(0.0)	1	(2.0)
Hepatotoxicity	0	(0.0)	1	(2.0)
Lung adenocarcinoma	0	(0.0)	1	(2.0)
Mucinous adenocarcinoma of appendix	0	(0.0)	1	(2.0)

	Pembrolizumab Rechallenge	Crossover to Pembrolizumab
	n (%)	n (%)
Pneumonia	0 (0.0)	1 (2.0)
Pneumonitis	0 (0.0)	1 (2.0)
Pneumonitis aspiration	0 (0.0)	1 (2.0)
Rib fracture	0 (0.0)	1 (2.0)
Seminoma	0 (0.0)	1 (2.0)
Urinary tract infection	0 (0.0)	1 (2.0)

Every participant is counted a single time for each applicable row and column.  
 NCI CTCAE version 4.03.  
 SAEs were followed 90 days after last dose of study treatment in Part 2.  
 MedDRA V24.1 preferred terms "Neoplasm progression", "Malignant neoplasm progression" and "Disease progression" not related to the drug are excluded.  
 Database Cutoff Date: 04JAN2022

*Schwere unerwünschte Ereignisse (CTCAE-Grad 3–5)*

Tabelle 4G-34: Schwere unerwünschte Ereignisse (CTCAE-Grad 3–5) in Teil II der Studie KEYNOTE 716 (Inzidenz &gt; 0 % in einer oder mehreren Behandlungsgruppen)

	Pembrolizumab Rechallenge	Crossover to Pembrolizumab
	n (%)	n (%)
Participants in population	4	49
with one or more adverse events	0 (0.0)	10 (20.4)
with no adverse events	4 (100.0)	39 (79.6)
Appendicitis	0 (0.0)	1 (2.0)
Aspartate aminotransferase increased	0 (0.0)	1 (2.0)
Cardiac failure	0 (0.0)	1 (2.0)
Embolism	0 (0.0)	1 (2.0)
Hepatotoxicity	0 (0.0)	1 (2.0)
Hypophosphataemia	0 (0.0)	1 (2.0)
Lipase increased	0 (0.0)	1 (2.0)
Lung adenocarcinoma	0 (0.0)	1 (2.0)
Pancreatitis	0 (0.0)	1 (2.0)
Pneumonia	0 (0.0)	1 (2.0)
Pneumonitis	0 (0.0)	1 (2.0)
Pneumonitis aspiration	0 (0.0)	1 (2.0)
Urinary tract infection	0 (0.0)	1 (2.0)

Every participant is counted a single time for each applicable row and column.  
 NCI CTCAE version 4.03.  
 AEs were followed 30 days after last dose of study treatment in Part 2. SAEs were followed 90 days after last dose of study treatment in Part 2.  
 MedDRA V24.1 preferred terms "Neoplasm progression", "Malignant neoplasm progression" and "Disease progression" not related to the drug are excluded.  
 Database Cutoff Date: 04JAN2022

*Immunvermittelte unerwünschte Ereignisse (AEOSI)*

Tabelle 4G-35: Immunvermittelte unerwünschte Ereignisse (AEOSI) in Teil II der Studie KEYNOTE 716

	Pembrolizumab Rechallenge		Crossover to Pembrolizumab	
	n	(%)	n	(%)
Participants in population	4		49	
with one or more adverse events	0	(0.0)	11	(22.4)
with no adverse event	4	(100.0)	38	(77.6)
with drug-related <sup>a</sup> adverse events	0	(0.0)	8	(16.3)
with toxicity grade 3-5 adverse events	0	(0.0)	2	(4.1)
with toxicity grade 3-5 drug-related adverse events	0	(0.0)	2	(4.1)
with serious adverse events	0	(0.0)	1	(2.0)
with serious drug-related adverse events	0	(0.0)	1	(2.0)
who died	0	(0.0)	0	(0.0)
who died due to a drug-related adverse event	0	(0.0)	0	(0.0)
discontinued drug due to an adverse event	0	(0.0)	2	(4.1)
discontinued drug due to a drug-related adverse event	0	(0.0)	2	(4.1)
discontinued drug due to a serious adverse event	0	(0.0)	1	(2.0)
discontinued drug due to a serious drug-related adverse event	0	(0.0)	1	(2.0)
<sup>a</sup> Determined by the investigator to be related to the drug.				
Grades are based on NCI CTCAE version 4.03.				
AEs were followed 30 days after last dose of study treatment in Part 2. SAEs were followed 90 days after last dose of study treatment in Part 2.				
Database Cutoff Date: 04JAN2022.				

**Anhang 4-G5: Definition der Immunvermittelten unerwünschten Ereignisse (AEOSI)**

Tabelle 4G-36: Definition der Immunvermittelten unerwünschten Ereignisse (AEOSI)

Version 22 basierend auf MedDRA Version 24.1 anhand der zugeordneten PT in der Studie KEYNOTE 716

<b>AEOSI</b>	<b>Preferred Terms</b>	<b>Immune-mediated (Yes/No)</b>
Pneumonitis	Acute interstitial pneumonitis Autoimmune lung disease Interstitial lung disease Pneumonitis Idiopathic pneumonia syndrome Organising pneumonia Immune-mediated lung disease	Yes
Colitis	Colitis Colitis microscopic Enterocolitis Enterocolitis haemorrhagic Necrotising colitis Colitis erosive Autoimmune colitis Immune-mediated enterocolitis	Yes
Hepatitis	Hepatitis Immune-mediated hepatitis Autoimmune hepatitis Hepatitis acute Hepatitis fulminant Drug-induced liver injury	Yes

<b>AEOSI</b>	<b>Preferred Terms</b>	<b>Immune-mediated (Yes/No)</b>
Nephritis	Nephritis Autoimmune nephritis Chronic autoimmune glomerulonephritis Fibrillary glomerulonephritis Focal segmental glomerulosclerosis Glomerulonephritis Glomerulonephritis acute Glomerulonephritis membranoproliferative Glomerulonephritis membranous Glomerulonephritis minimal lesion Glomerulonephritis proliferative Glomerulonephritis rapidly progressive Mesangioproliferative glomerulonephritis Nephritis haemorrhagic Tubulointerstitial nephritis Nephrotic syndrome Immune-mediated nephritis	Yes
Adrenal Insufficiency	Adrenal insufficiency Adrenocortical insufficiency acute Secondary adrenocortical insufficiency Primary adrenal insufficiency Addison's disease Immune-mediated adrenal insufficiency	Yes
Hypophysitis	Hypophysitis Hypopituitarism Lymphocytic hypophysitis Immune-mediated hypophysitis	Yes
Hyperthyroidism	Hyperthyroidism Basedow's disease Thyrotoxic crisis Immune-mediated hyperthyroidism	Yes
Hypothyroidism	Hypothyroidism Hypothyroidic goitre Myxoedema Myxoedema coma Primary hypothyroidism Autoimmune hypothyroidism Immune-mediated hypothyroidism	Yes

<b>AEOSI</b>	<b>Preferred Terms</b>	<b>Immune-mediated (Yes/No)</b>
Thyroiditis	Thyroid disorder Thyroiditis Autoimmune thyroiditis Thyroiditis acute Silent thyroiditis Autoimmune thyroid disorder Immune-mediated thyroiditis	Yes
Type 1 Diabetes Mellitus	Diabetic ketoacidosis Diabetic ketoacidotic hyperglycaemic coma Fulminant type 1 diabetes mellitus Latent autoimmune diabetes in adults Type 1 diabetes mellitus Euglycaemic diabetic ketoacidosis Diabetic ketosis Ketosis-prone diabetes mellitus	Yes
Severe Skin Reactions Including Stevens-Johnson Syndrome (SJS) and Toxic Epidermal Necrolysis (TEN)  or  Severe Skin Reactions (CTCAE-Grade 3-5)	Dermatitis bullous Dermatitis exfoliative Dermatitis exfoliative generalised Epidermal necrosis Erythema multiforme Exfoliative rash Pemphigoid Pemphigus Skin necrosis Stevens-Johnson syndrome Toxic epidermal necrolysis Toxic skin eruption SJS-TEN overlap Rash Rash erythematous Rash maculo-papular Rash pruritic Rash pustular Pruritus Pruritus genital Lichen planus Oral lichen planus Cutaneous vasculitis Vasculitic rash	Yes

<b>AEOSI</b>	<b>Preferred Terms</b>	<b>Immune-mediated (Yes/No)</b>
Uveitis	Iritis Uveitis Cyclitis Autoimmune uveitis Iridocyclitis Vogt-Koyanagi-Harada disease Chorioretinitis Choroiditis Immune-mediated uveitis Choroidal effusion Choroidal detachment Serous retinal detachment	Yes
Pancreatitis	Pancreatitis Autoimmune pancreatitis Pancreatitis acute Pancreatitis haemorrhagic Pancreatitis necrotising Immune-mediated pancreatitis	Yes
Myositis	Myositis Necrotising myositis Polymyositis Immune-mediated myositis Rhabdomyolysis Myopathy Dermatomyositis Autoimmune myositis	Yes
Guillain-Barre Syndrome	Demyelinating polyneuropathy Guillain-Barre syndrome Axonal neuropathy Multifocal motor neuropathy Polyneuropathy idiopathic progressive Miller Fisher syndrome Subacute inflammatory demyelinating polyneuropathy	Yes
Myocarditis	Myocarditis Autoimmune myocarditis Hypersensitivity myocarditis Immune-mediated myocarditis	Yes
Encephalitis	Encephalitis Encephalitis autoimmune Limbic encephalitis Noninfective encephalitis Immune-mediated encephalitis	Yes

<b>AEOSI</b>	<b>Preferred Terms</b>	<b>Immune-mediated (Yes/No)</b>
Sarcoidosis	Sarcoidosis Cutaneous sarcoidosis Ocular sarcoidosis Pulmonary sarcoidosis	Yes
Infusion Reactions	Hypersensitivity Drug hypersensitivity Anaphylactic reaction Anaphylactoid reaction Cytokine release syndrome Serum sickness Serum sickness-like reaction Infusion related reaction Infusion related hypersensitivity reaction	No
Myasthenic Syndrome	Myasthenic syndrome Myasthenia gravis Myasthenia gravis crisis Ocular myasthenia	Yes
Myelitis	Myelitis Myelitis transverse Acute necrotizing myelitis	Yes

<b>AEOSI</b>	<b>Preferred Terms</b>	<b>Immune-mediated (Yes/No)</b>
Vasculitis	Anti-neutrophil cytoplasmic antibody positive vasculitis Aortitis Arteritis Arteritis coronary Behcet's syndrome Central nervous system vasculitis Cerebral arteritis Diffuse vasculitis Eosinophilic granulomatosis with polyangiitis Granulomatosis with polyangiitis Haemorrhagic vasculitis Hypersensitivity vasculitis Microscopic polyangiitis Ocular vasculitis Polyarteritis nodosa Pulmonary vasculitis Renal arteritis Renal vasculitis Retinal vasculitis Takayasu's arteritis Giant cell arteritis Vasculitis Vasculitis gastrointestinal Vasculitis necrotising	Yes
Cholangitis Sclerosing	Cholangitis sclerosing Autoimmune cholangitis Immune-mediated cholangitis	Yes