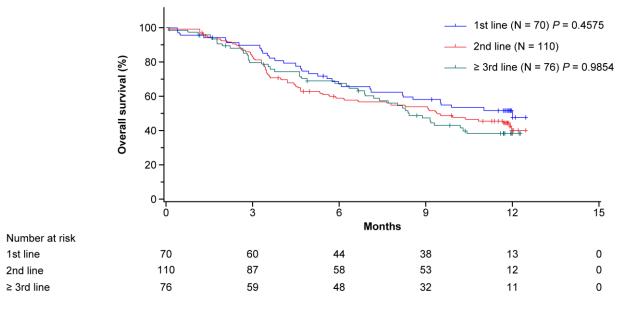
Supplementary Material

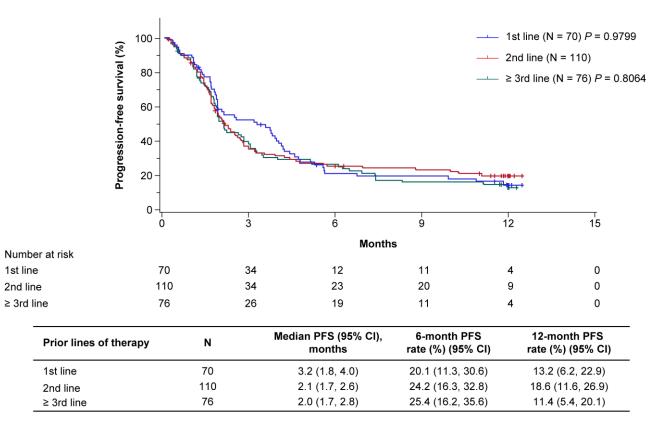


Online Resource 1a Overall survival in patients by treatment line for nivolumab

Prior lines of therapy	Ν	Median OS (95% CI), months	6-month OS rate (%) (95% CI)	12-month OS rate (%) (95% CI)	
1st line	70	12.0 (7.1, NE)	67.2 (54.6, 77.1)	51.8 (39.1, 63.0)	
2nd line	110	9.4 (5.7, NE)	58.9 (48.8, 67.6)	40.2 (29.8, 50.4)	
≥ 3rd line	76	8.4 (6.9, 10.4)	67.5 (55.5, 76.9)	38.3 (27.0, 49.5)	

CI confidence interval, NE not evaluable, OS overall survival

Online Resource 1b Progression-free survival in patients by treatment line for nivolumab



CI confidence interval, PD progressive disease, PFS progression-free survival

Statistics			All	Nivolumab treatment line		
Category				1st line	2nd line	≥ 3rd line
Number of patients			256 (100.0%)	70 (27.3%)	110 (43.0%)	76 (29.7%)
The BOR assessed patient			223 (87.1%)	61 (23.8%)	98 (38.3%)	64 (25.0%)
BOR *1		CR	3 (1.3%)	0 (0.0%)	2 (2.0%)	1 (1.6%)
		PR	32 (14.3%)	9 (14.8%)	12 (12.2%)	11 (17.2%)
		SD	61 (27.4%)	21 (34.4%)	23 (23.5%)	17 (26.6%)
		PD	127 (57.0%)	31 (50.8%)	61 (62.2%)	35 (54.7%)
	ORR (%) *1	N (%)	35 (15.7%)	9 (14.8%)	14 (14.3%)	12 (18.8%)
		95% CI	(11.2 ,21.1)	(7.0 ,26.2)	(8.0 ,22.8)	(10.1 ,30.5)
	DCR (%) *1	N (%)	96 (43.0%)	30 (49.2%)	37 (37.8%)	29 (45.3%)
		95% CI	(36.5 ,49.8)	(36.1 ,62.3)	(28.2 ,48.1)	(32.8 ,58.3)

Online Resource 1c Best objective response in patients by treatment line for nivolumab

*1 RECIST ver.1.1

BOR best overall response, CI confidence interval, CR complete response, DCR disease control rate, ORR objective response rate, PD progressive disease, PR partial

response, RECIST Response Evaluation Criteria in Solid Tumors, SD stable disease