



Figure S1 Kaplan-Meier curves of OS survival. OS, overall survival.

Table S1 Biological effective dose calculations (BED) of chest radiotherapy schemas used frequently (alpha/beta ratio: 10)

Total dose (Gy)	Number of fractions	Dose per fraction	BED	BED groups
20	5	4	28	<50
30	10	3	39	
40	20	2	48	
40.2	15	2.68	50.97	50-65
45	15	3	58.5	
50	25	2	60	
54	27	2	64.8	
56	28	2	67.2	>65
60	30	2	72	
63	30	2.1	76.23	
60	20	3	78	
66	30	2.2	80.52	
60	15	4	84	

Table S2 Patients analyzed by radiotherapy dose and treatment modality

Radiotherapy dose	N	RT <40 Gy	RT 40–55.9 Gy	RT ≥56 Gy
Chemotherapy modality				
Concurrent	2,645	857 (32.4)	208 (7.9)	1,580 (59.7)
Sequential	707	547 (77.4)	86 (12.2)	74 (10.5)
None	2,225	1,611 (72.4)	292 (13.1)	322 (14.5)
Total	5,577	3,015 (54.1)	586 (10.5)	1,976 (35.4)

Table S3 Overall survival 60 days after radiotherapy for patients treated with sequential chemo-radiotherapy

Chemotherapy	RT dose	PET	Median (95% CI)	1-year (95% CI)	2-year (95% CI)	5-year (95% CI)
Sequential Chemo-RT	<40	All (n=547)	9.8 (9.0, 10.3)	39 (34, 43)	18 (15, 21)	7 (5, 10)
		No PET (n=398)	9.3 (8.5, 10.3)	36 (31, 41)	18 (14, 22)	6 (4, 10)
		PET (n=149)	10.7 (9.3, 12.9)	46 (37, 54)	18 (12, 26)	10 (5, 17)
	40–55.9	All (n=86)	9.5 (7.8, 13.0)	41 (30, 52)	21 (13, 31)	9 (4, 17)
		No PET (n=58)	11.0 (8.6, 17.5)	48 (35, 61)	25 (15, 37)	11 (4, 21)
		PET (n=28)	7.2 (4.5, 8.3)	26 (11, 44)	13 (3, 29)	9 (2, 24)
	56+	All (n=74)	12.5 (10.3, 15.7)	54 (42, 65)	22 (13, 32)	10 (4, 19)
		No PET (n=44)	12.5 (7.8, 15.3)	55 (39, 68)	18 (9, 37)	11 (4, 23)
		PET (n=30)	13.8 (10.3, 21.6)	53 (34, 69)	27 (13, 43)	7 (1, 23)

Number of patients by dose and PET utilization are given. Median overall survival (mOS), as well as 1-year, 2-year and 5-year overall survival (1-yr OS, 2-yr OS, 5-yr OS) rates are given for each cohort, in aggregate as well as by dose grouping and utilization of PET imaging. mOS is given in months. Ranges in brackets are 95% confidence intervals.