



Supplemental Figure 1

Kaplan Meier curves for PET/CT parameter SUV_{max} for developing distant metastases or death (a, b) are stratified by quartiles.

A) Distant mets by SUVmax

B) Overall survival by SUVmax

Supplemental Table 1. PET parameters for primary tumor and nodal disease by neck level

	SUV max		MTV (cm ³)		TLG	
	Median (SD)	Range	Median (SD)	Range	Median (SD)	Range
Primary tumor (n=176)	13.6 (5.5)	3.4 – 28.2	9.7 (12.9)	1.2 – 113.0	81.4 (192.0)	5.4 – 1,964
Level I (n = 10)	6.0 (2.3)	2.8 – 9.7	2.0 (9.5)	1.1 – 32	8.6 (35.2)	2.9 - 118.4
Level II (n = 153)	8.8 (5.2)	2.4 – 33.3	6.7 (8.8)	0.79 – 60.8	321.1 (77.7)	4.6 - 442.7
Level III (n = 69)	7.8 (3.9)	2.4 – 18.6	4.0 (8.0)	0.6 – 42.0	16.3 (68.4)	3.3 - 427.3
Level IV (n = 19)	7.5 (2.9)	3.4 – 14.5	3.1 (4.9)	0.9 – 19.4	10.5 (24.5)	6.1 - 92.0
Level V (n = 16)	7.5 (3.9)	3.0 – 15.1	2.2 (3.2)	0.5 – 12.6	11.8 (14.3)	2.7 - 49.3
Level VI (n = 1)	7.3		0.9		4.1	

Supplemental table 2. Spearman correlation between SUV_{max}, TLG and MTV

Spearman correlation between PET variables

	SUVmax	TLG	MTV
SUVmax	1	0.69571	0.36395
TLG	0.69571	1	0.90613
MTV	0.36395	0.90613	1