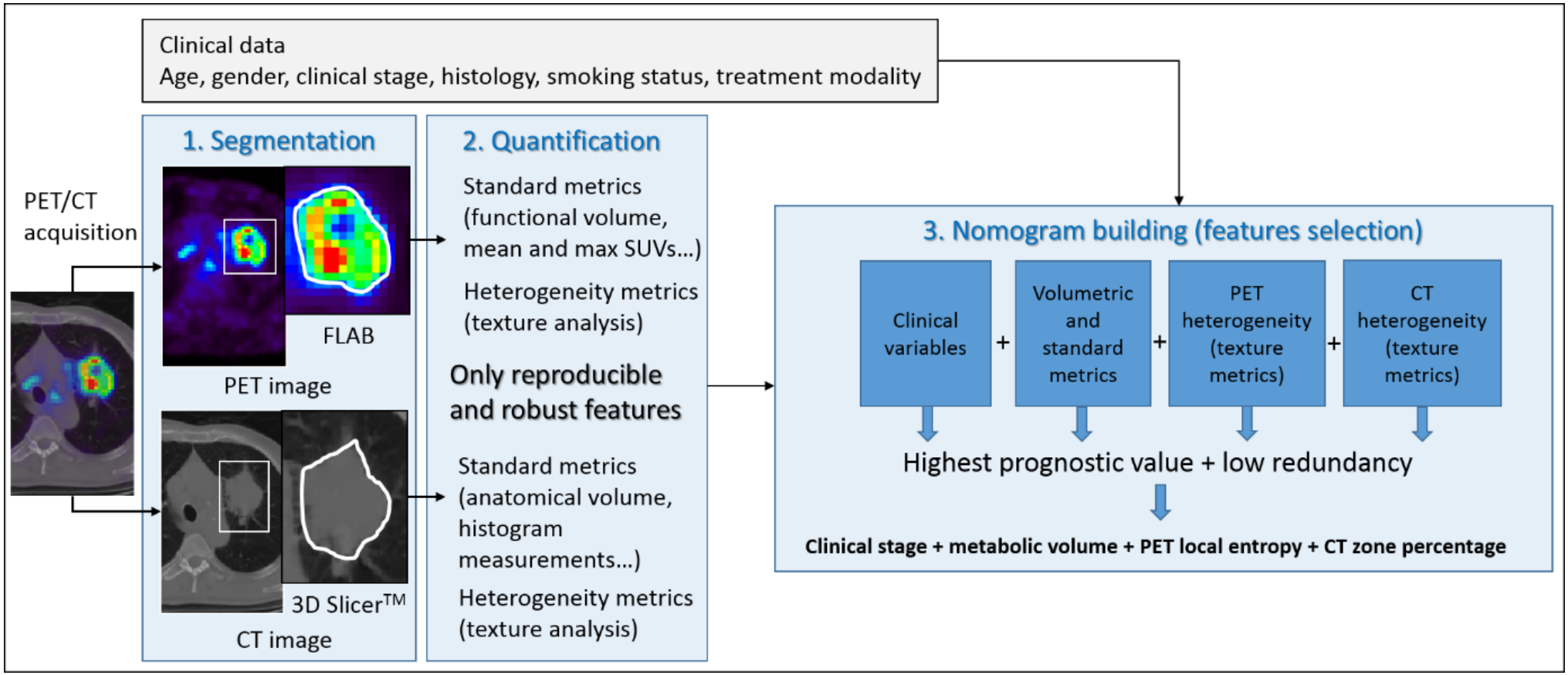
Supplemental material

Table 1: CT features reproducibility

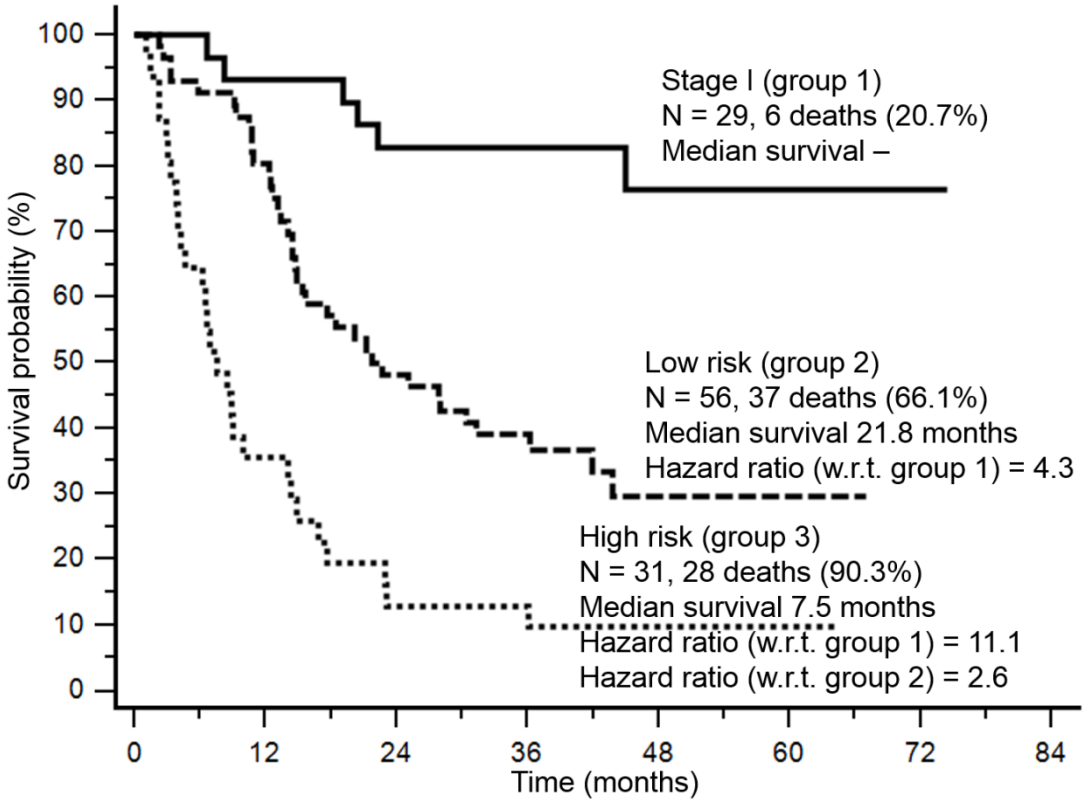
	CT features	Lower reproducibility limit (%)	Upper reproducibility limit (%)	Mean ± SD (%)
Tumor volume	**Volume**	**-11.2**	**7.9**	**-1.7 ± 4.9**
Intensity histogram	**Entropy**	**-5.1**	**2.6**	**-1.2 ± 2.0**
	Uniformity	**-10.3**	**17.6**	**3.6 ± 7.1**
	Standard deviation	**-21.8**	**8.2**	**-6.8 ± 7.7**
	Maximum	-43.7	39.1	-2.3 ± 21.1
	Mean	-91.7	100.8	4.6 ± 49.1
	Skewness	-144.2	142.9	-0.6 ± 73.3
	Kurtosis	-196.5	219.3	11.4 ± 106.1
	Variance	-104.9	133.9	14.5 ± 60.9
Co-occurrence matrix with 13 directions	Homogeneity	-24.4	29.0	4.8 ± 14.9
	Dissimilarity	-40.7	41.4	-9.7 ± 21.0
	Contrast	-153.5	154.2	0.3 ± 78.5
	Entropy	**-13.4**	**18.3**	**2.4 ± 8.1**
	Correlation	-31.6	50.0	9.2 ± 20.8
	Inverse Difference Moment	-35.6	49.3	6.8 ± 21.6
	Variance	-38.0	33.3	-2.3 ± 18.2
	Angular Second Moment	-113.1	172.2	29.5 ± 72.8

	Sum Average	**-19.9**	**17.5**	**-1.2 ± 9.5**
	Sum Entropy	**-16.3**	**11.9**	**-2.2 ± 7.2**
	Difference Average	-241.6	251.0	4.7 ± 125.7
	Difference Entropy	-227.6	237.2	4.8 ± 118.6
	Difference Variance	-239.2	240.7	0.8 ± 122.4
	Sum Variance	-47.0	51.3	2.2 ± 25.1
	Cluster Shade	-275.0	251.1	-11.9 ± 134.2
Intensity size-zone matrix	Short Zone Emphasis	-43.4	49.5	3.1 ± 23.7
	Long Zone Emphasis	-46.0	20.7	-12.7 ± 17.0
	Low Gray-level Zone Emphasis	-91.5	58.9	-16.3 ± 38.4
	High Grey-level Zone Emphasis	-35.0	34.8	-0.6 ± 18.0
	Low Grey-level Short Zone Emphasis	-162.8	120.7	-21.1 ± 72.3
	High Grey-level Short Zone Emphasis	-18.1	37.9	9.9 ± 14.3
	Low Grey-level Long Zone Emphasis	-33.3	15.1	-9.1 ± 12.4
	High Grey-level Long Zone Emphasis	-49.7	62.6	6.4 ± 28.6
	Grey Level Non Uniformity	-29.8	34.7	2.4 ± 16.4
	Size Zone Non Uniformity	-22.9	37.7	7.4 ± 15.5
	Zone Percentage	**-10.9**	**24.4**	**6.8 ± 9.0**

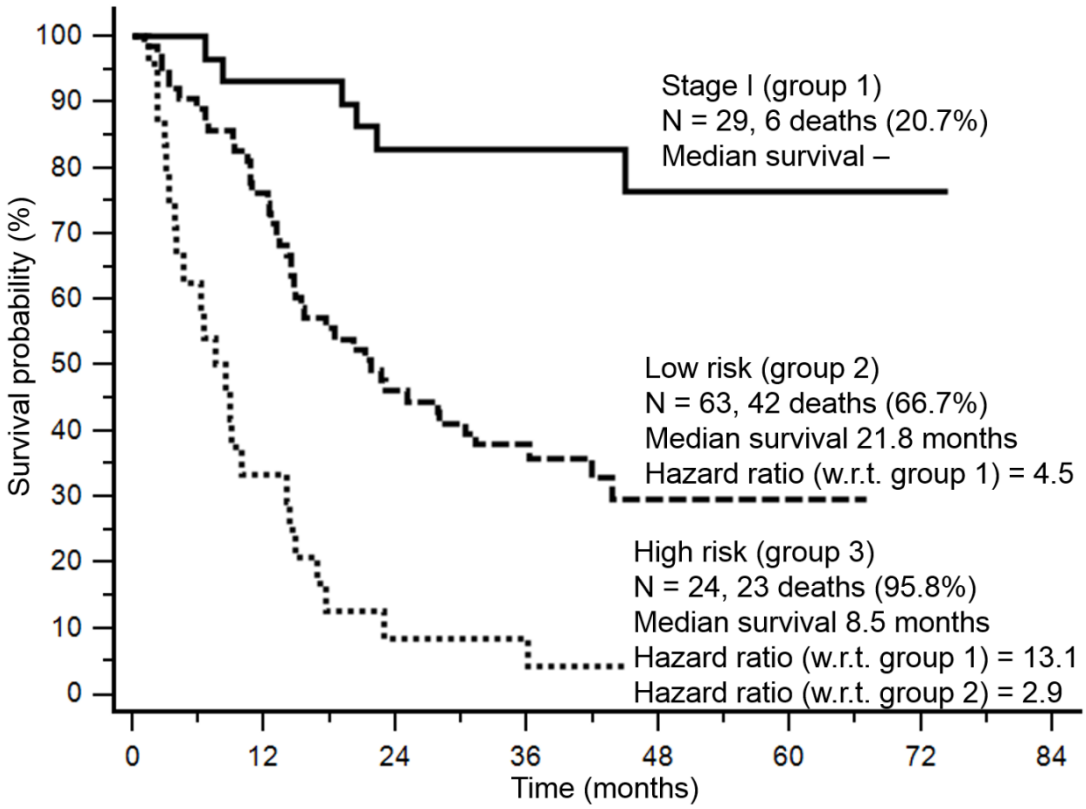
Reproducible features are in **bold**. They aredefined as havingSD below twice the reproducibility of volume measurement, thus below ±10**%**.



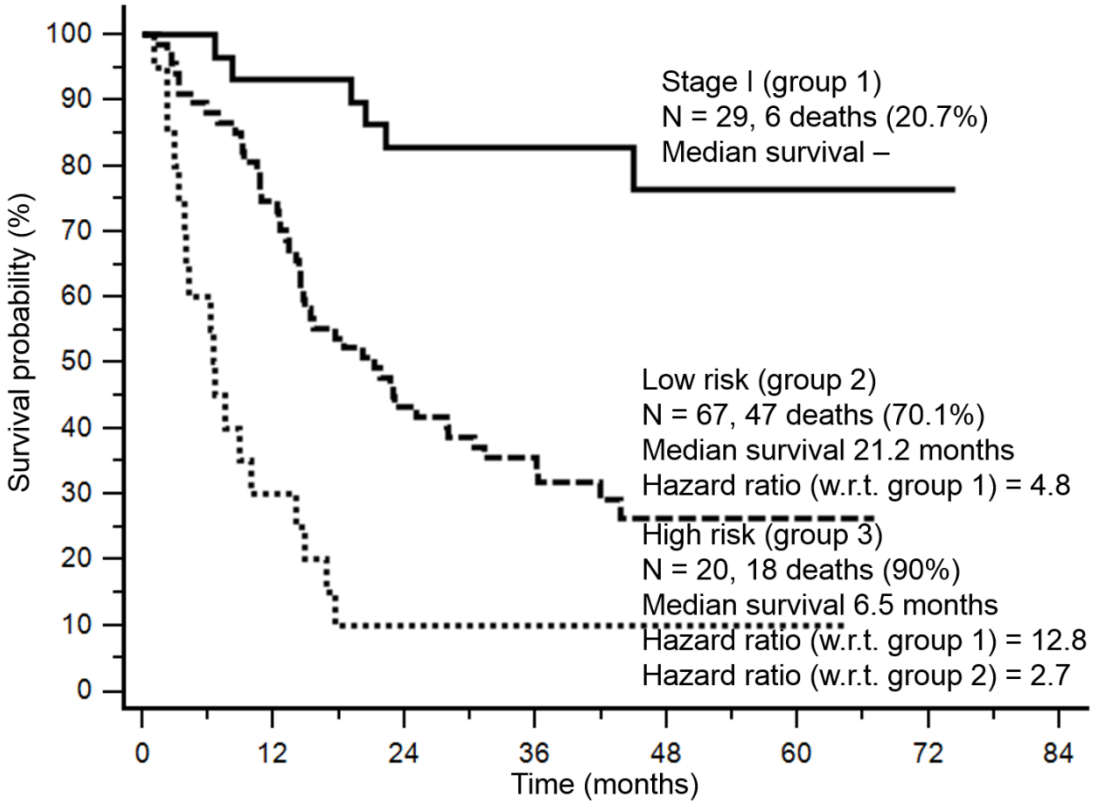
Supplemental figure 1



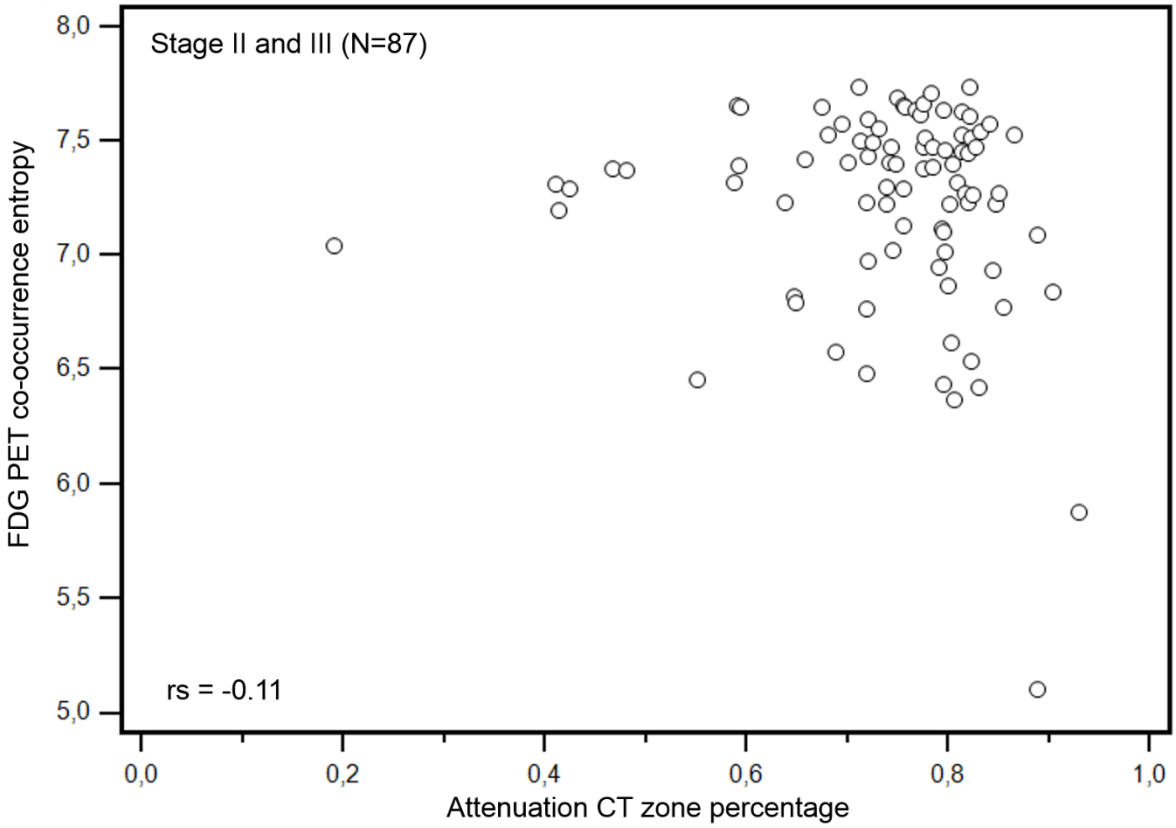
Supplemental figure 2-a



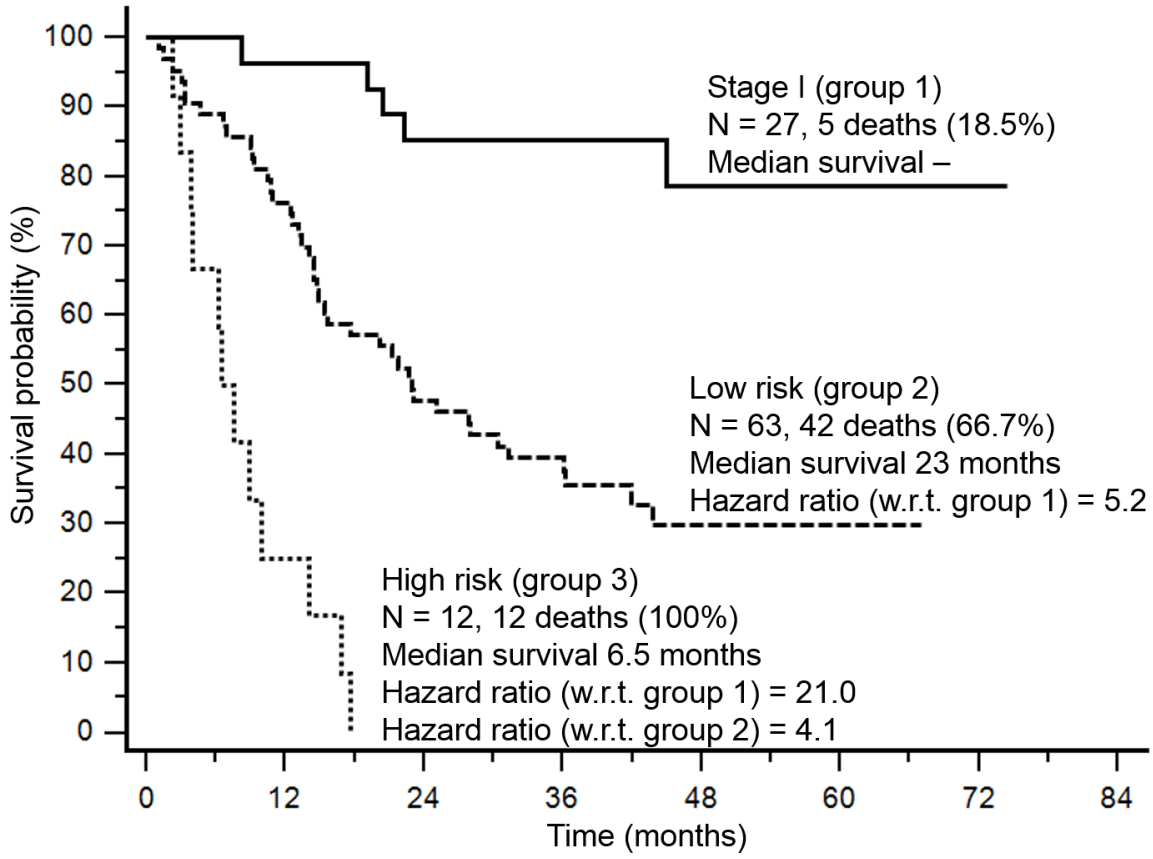
Supplemental figure 2-b



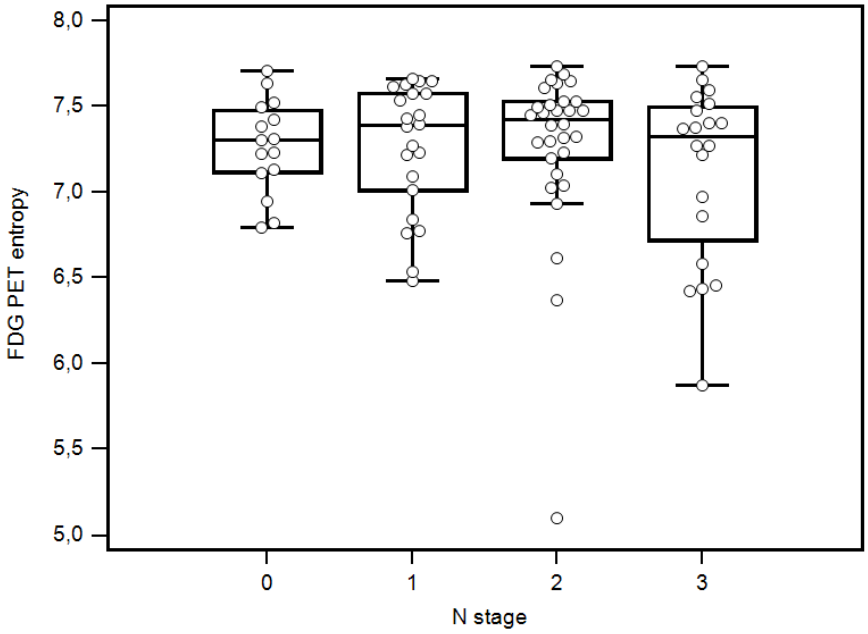
Supplemental figure 2-c



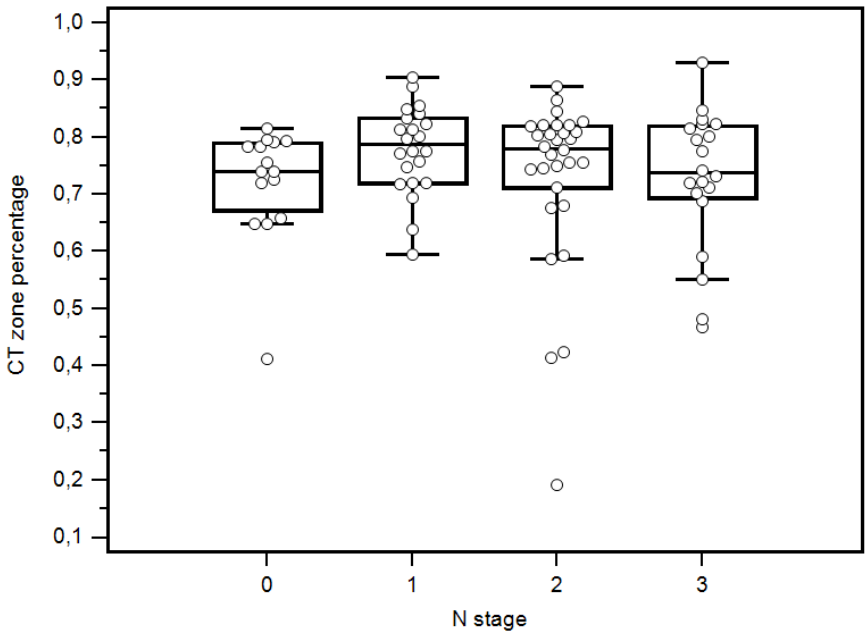
Supplemental figure 3



Supplemental figure 4



Supplemental figure 5-a



Supplemental figure 5-b

Supplemental figure captions

Figure 1: The workflow of the nomogram construction.

Figure 2: The Kaplan-Meier curves obtained for stratification with (a) stage and MATV (b) stage, MATV and PET heterogeneity and (c) stage, MATV and CT heterogeneity.

Figure 3: Distribution of co-occurrence entropy from FDG PET and zone percentage from attenuation CT for stage II and III patients.

Figure 4: Nomogram result excluding the 14 patients treated with palliative chemotherapy only (N=102).

Figure 5: Distributions of (a) FDG PET entropy and (b) CT zone percentage according to N staging in stage II and III patients.