

**Supplementary Table S1.** The centrality and dispersion for age, LDH, AFP and HCG.

		Age	LDH	AFP	HCG
Category 1.	N	182	31	45	31
	Mean	60.02	210.10	2.46833	.40555
	Std. Deviation	15.629	91.214	1.299046	.905478
	Grouped Median	60.87	189.00	2.29000	.17167
	Kurtosis	.292	4.856	1.140	6.957
	Skewness	-.463	1.920	.766	2.679
	Range	87	423	6.470	3.700
Category 2.	N	193	116	82	68
	Mean	52.70	392.15	1128.34102	2994.00781
	Std. Deviation	20.945	376.722	6176.807435	21326.820646
	Grouped Median	54.50	250.50	2.10500	.12727
	Kurtosis	-1.054	6.735	53.231	65.321
	Skewness	.017	2.537	7.009	8.025
	Range	83	1979	50610.000	174608.000
Total	N	375	147	127	99
	Mean	56.25	353.76	729.40976	2056.61720
	Std. Deviation	18.890	345.034	4981.887025	17689.109293
	Grouped Median	59.14	238.00	2.21667	.14103
	Kurtosis	-.649	9.078	83.142	95.156
	Skewness	-.273	2.884	8.752	9.685
	Range	92	1979	50610.000	174608.000

**Supplementary Table S2.** List of clinical and radiomic features extracted by the third LASSO logistic regression analysis (Selection\_3).

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**Clinical feature**

LDH

**Radiomic features**

original\_shape\_Flatness  
original\_shape\_Maximum2DDiameterSlice  
original\_shape\_Sphericity  
original\_firstorder\_10Percentile original\_firstorder\_Mean  
original\_gldm\_DependenceNonUniformityNormalized  
wavelet.LLH\_firstorder\_Energy  
wavelet.LLH\_firstorder\_TotalEnergy  
wavelet.LLH\_glcm\_ClusterProminence  
wavelet.LLH\_glcm\_Idmn  
wavelet.LLH\_glszm\_LowGrayLevelZoneEmphasis  
wavelet.LLH\_glszm\_SmallAreaLowGrayLevelEmphasis  
wavelet.LHH\_glcm\_MCC  
wavelet.LHH\_glszm\_LowGrayLevelZoneEmphasis  
wavelet.LHH\_glszm\_SizeZoneNonUniformityNormalized  
wavelet.LHH\_glszm\_ZoneEntropy  
wavelet.HLL\_glcm\_ClusterProminence  
wavelet.HHL\_glcm\_Correlation  
wavelet.HHL\_glcm\_InverseVariance  
wavelet.HHL\_glszm\_LowGrayLevelZoneEmphasis  
wavelet.LLL\_glcm\_InverseVariance  
wavelet.LLL\_glszm\_SmallAreaEmphasis

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Abbreviations: LDH: lactate dehydrogenase