

## Supplementary materials

**Supplementary Table S1.** Diagnostic effect of biomarkers and the combinations

Variables	Cut-off	Training set						Validation set					
		AUROC [95% CI] <b>p-value</b>	Sensitivity [95% CI]	Specificity [95% CI]	PPV [95% CI]	NPV [95% CI]	Diagnostic accuracy [95% CI]	AUROC [95% CI] <b>p-value</b>	Sensitivity [95% CI]	Specificity [95% CI]	PPV [95% CI]	NPV [95% CI]	Diagnostic accuracy [95% CI]
S100B+LDH	0.443	0.650 [0.555; 0.746] <b>p=0.003</b>	0.38 [0.26; 0.52]	0.90 [0.81; 0.96]	0.73 [0.57; 0.85]	0.67 [0.62; 0.71]	0.68 [0.60; 0.76]	0.687 [0.547; 0.828] <b>p=0.009</b>	0.50 [0.31; 0.69]	0.85 [0.70; 0.94]	0.70 [0.51; 0.84]	0.71 [0.62; 0.78]	0.71 [0.58; 0.81]
S100B+OPN	0.465	0.658 [0.560; 0.755] <b>p=0.002</b>	0.41 [0.29; 0.55]	0.90 [0.81; 0.96]	0.75 [0.59; 0.86]	0.68 [0.63; 0.73]	0.70 [0.61; 0.77]	0.709 [0.575; 0.843] <b>p=0.004</b>	0.54 [0.34; 0.73]	0.83 [0.67; 0.93]	0.68 [0.50; 0.82]	0.72 [0.63; 0.80]	0.71 [0.58; 0.81]
LDH+OPN	0.437	0.643 [0.549; 0.738] <b>p=0.004</b>	0.45 [0.32; 0.59]	0.80 [0.70; 0.88]	0.62 [0.49; 0.73]	0.67 [0.61; 0.72]	0.65 [0.57; 0.73]	0.643 [0.500; 0.785] <b>p=0.046</b>	0.46 [0.28; 0.66]	0.83 [0.67; 0.93]	0.65 [0.46; 0.80]	0.69 [0.60; 0.76]	0.68 [0.55; 0.79]
S100B+LDH +OPN	0.391	0.669 [0.575; 0.763] <b>p=0.001</b>	0.64 [0.50; 0.76]	0.69 [0.57; 0.79]	0.58 [0.50; 0.68]	0.72 [0.64; 0.79]	0.67 [0.58; 0.75]	0.712 [0.573; 0.850] <b>p=0.003</b>	0.64 [0.44; 0.81]	0.78 [0.62; 0.89]	0.67 [0.51; 0.79]	0.76 [0.65; 0.84]	0.72 [0.60; 0.82]

Significant results are in bold. AUROC – area under the receiver operating characteristics. PPV- positive predictive value. NPV – negative predictive value. 95% CI – 95% confidence intervals, LDH – lactate dehydrogenase; OPN – osteopontin