

**Supplementary Table 1: Correlations of the candidate biomarkers with outcomes.**

		mE-PASS		Minor (I-II)		Major (III-V)		Overall complication		CCI		LoS	
		Pearson	p-value	Spearman	p-value	Spearman	p-value	Spearman	p-value	Pearson	p-value	Pearson	p-value
<b>CRP</b>	Δ Max	0.062	0.530	0.256	<b>0.003</b>	0.387	<b>&lt;0.001</b>	0.534	<b>&lt;0.001</b>	0.529	<b>&lt;0.001</b>	0.484	<b>&lt;0.001</b>
	Δ POD 0	0.052	0.693	0.070	0.566	0.049	0.686	0.098	0.417	0.231	0.052	0.381	<b>0.001</b>
	Δ POD 1	0.116	0.256	0.207	<b>0.024</b>	0.273	<b>0.003</b>	0.395	<b>&lt;0.001</b>	0.469	<b>&lt;0.001</b>	0.462	<b>&lt;0.001</b>
<b>Alb</b>	Δ Max	0.323	<b>0.001</b>	0.264	<b>0.003</b>	0.345	<b>&lt;0.001</b>	0.470	<b>&lt;0.001</b>	0.373	<b>&lt;0.001</b>	0.358	<b>&lt;0.001</b>
	Δ POD 0	0.479	<b>&lt;0.001</b>	0.298	<b>0.006</b>	0.194	0.077	0.420	<b>&lt;0.001</b>	0.302	<b>0.005</b>	0.259	<b>0.018</b>
	Δ POD 1	0.275	<b>0.010</b>	0.228	<b>0.016</b>	0.372	<b>&lt;0.001</b>	0.485	<b>&lt;0.001</b>	0.383	<b>&lt;0.001</b>	0.468	<b>&lt;0.001</b>
<b>PCT</b>	Δ Max	-0.050	0.656	0.240	<b>0.016</b>	0.181	0.071	0.339	<b>0.001</b>	0.140	0.162	0.204	<b>0.040</b>
	Δ POD 0	0.017	0.906	0.171	0.204	0.076	0.570	0.211	0.112	0.015	0.909	0.168	0.206
	Δ POD 1	-0.010	0.933	0.135	0.216	0.150	0.165	0.220	<b>0.041</b>	-0.034	0.752	0.103	0.342
<b>LCT</b>	Δ Max	0.269	<b>0.013</b>	0.301	<b>0.003</b>	0.196	0.057	0.426	<b>&lt;0.001</b>	0.317	<b>0.002</b>	0.327	<b>0.001</b>
	Δ POD 0	0.244	<b>0.039</b>	0.297	<b>0.007</b>	0.178	0.111	0.412	<b>&lt;0.001</b>	0.299	<b>0.007</b>	0.292	<b>0.008</b>
	Δ POD 1	0.118	0.331	0.265	<b>0.018</b>	0.026	0.817	0.248	<b>0.026</b>	0.193	0.087	0.104	0.360

Complications are graded according to the Clavien classification (grade I to V); mE-PASS: Modified Estimation of Physiologic Ability and Surgical Stress; CCI: Comprehensive complication index; LoS: Length of stay; CRP: C-reactive protein; Alb: Serum albumin; PCT: Procalcitonin; LCT: Lactates; Δ Max: Maximal difference between the pre- and post-operative values; Δ POD 0: Difference of concentration on POD -1 and POD 0; Δ Pod 1: Difference of concentration on POD -1 and POD 1