| **Table 3: Main results** Endothelial Glycocalyx (EG), NIRS-derived (NIRS) and FMD-derived (FMD) variables, before surgery (T0), 1-3 h after arrival in PACU (T1) and 24 h after surgery (T2); data as Mean ± SD; analysis by 2-way ANOVA for repeated measures and Tukey-Kramer multi comparison test. | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **PLACEBO GROUP** | | | **LIDOCAINE GROUP** | | |  |  |  |
| **EG** |  | **T0** | **T1** | **T2** | **T0** | **T1** | **T2** | P value for difference between groups | P value for difference between times | P value for interaction |
| Syndecan (pg/ml) | 2896 ± 2558 | 3452 ± 2656\*\*\* | 3999 ± 3453\*\*$ | 2115 ± 2007 | 2770 ± 2898\*\* | 3169 ± 2906\*\*\* $ | 0.179 | <0.001 | 0.454 |
|  |  |  |  |  |  |  |  |  |  |  |
| **NIRS** | StO2 - Baseline (%) | 69.2 ± 3.1 | 70.7 ± 7.5 | 66.4 ± 5.1\*\* | 68.1 ± 5.8 | 70.1 ± 4.9 | 68.0 ± 5.0\*\* | 0.939 | 0.046 | 0.374 |
| StO2 - Ischemic slope (%/sec) | -0.165 ± 0.049 | -0.147 ± 0.063\* | -0.141 ± 0.041 | -0.163 ± 0.042 | -0.145 ± 0.050\* | -0.156 ± 0.038 | 0.551 | 0.021 | 0.464 |
| StO2 - Reperfusion slope (%/sec) | 1.990 ± 0.449 | 1.672 ± 0.585 | 1.843 ± 0.525 | 2.030 ± 0.318 | 1.868 ± 0.397 | 1.986 ± 0.478 | 0.189 | 0.390 | 0.579 |
|  |  |  |  |  |  |  |  |  |  |  |
| **FMD** | Baseline vascular diameter before occlusion (mm) | 4.049 ± 0.684 | 4.367 ± 0.692 | 4.276 ± 0.605 | 4.223 ± 0.808 | 4.428 ± 0.744 | 4.610 ± 0.719 | 0.528 | 0.002 | 0.803 |
| Post-ischaemic diameter increase: FMDmax (%) | 6.1 ± 3.9 | 3.6 ± 3.7 | 3.8 ± 4.7 | 6.9 ± 5.8 | 4.9 ± 6.7 | 6.6 ± 6.7 | 0.240 | 0.382 | 0.123 |
| AUCShearRate until FMDmax (arbitrary units) | 21512.6 ± 11143.0 | 21140.7 ± 13084.5 | 16527.8 ± 8734.7 | 16270.9 ± 8397.2 | 18588.7 ± 11874.1 | 16473.5 ± 8865.4 | 0.719 | 0.226 | 0.377 |
|  | Inside each group: \*\*\* T0 vs T1 and T0 vs T2 p<0.001 ; \*\* T1 vs T2 p<0.02 ; \* T0 vs T1 p<0.05 ; $ T1 vs T2 p<0.01 | | | | | | | | | |