Tables - ASSESSMENT OF THE DYNAMICS OF THE PLASMATIC TNF ALFA, ENA-78, IL 10, PCR IN THE FIRST THREE DAYS OF LIFE AT THE NEWBORN WITH PROM. NEONATAL CORRELATION

Table 1. Anthropometric data

|  |  |  |  |
| --- | --- | --- | --- |
|  | Study group | Control group | p (T Student test)  |
| Weight(g) | 2441.43+/-926.97 | 2850.00+/-948.28 | 0.183 |
| Gestational Age (weeks) | 35.71+/-3.98 | 36.64+/-3.80 | 0.459 |
| Premature rupture of the membranes (hours) | 78.40+/-139.90 | 15.00+/-2.83 | Cannot be computed |

Table 2. Paraclinical parameters in dynamics

|  |  |  |  |
| --- | --- | --- | --- |
|  | Study group | Control group | p (Student T test) |
| pH -1 | 7.30+/-0.087 | 7.31+/-0.042 | 0.880 |
| pH -2 | 7.32+/-0.058 | 7.34+/-0.42 | 0.497 |
| Paired comparation(paired Student t test) | 0.001\* | 0.517 |  |
| Means of Saturation in the first day  | 81.26+/-11.94 | 80.29+/-16.45 | 0.004\* |
| Means of Saturation in the third day | 90.29+/-16.45 | 91.50+/-8.89 | 0.192 |
| Paired comparation(paired Student t test) | 0.064\*\* | 0.111 |  |
| WBC – I-st day | 14992+/-6398 | 11871+/-3875 | 0.044\* |
| WBC – III-rd day | 12701+/-3925 | 13125+/-5745 | 0.846 |
| Paired comparation(paired Student t test) | 0.000\* | 0.343 |  |
| Plaquettes I-st day | 287143+/-119407 | 291397+/-210563 | 0.929 |
| Plaquettes – III-rd day | 233608+/-72098 | 309750+/-92312 | 0.059\*\* |
| Paired comparation(paired Student t test) | 0.010\* | 0.264 |  |

\* Statistically significant differences observed

\*\* Tendency to obtain a statistical difference

Tables 3. Inflammatory markers in dynamics

|  |  |  |  |
| --- | --- | --- | --- |
|  | Study group | Control group | p (Student T test) |
| CRP | 0.83+/-0.85 | 0.60+/-0.00 | 0.122 |
|  |  |  | p (Kruskal-Wallis test) |
| TNF alpha - I-st day | 14.68+/-28.11 | 8.99+/-6.81 | 0.207 |
| TNF alpha - III-rd day | 10.08+/-14.61 | 3.25+/-1.91 | 0.419 |
| Paired comparation(Wilcoxon signed rank test) | 0.253 | 0.180 | p (Kruskal-Wallis test) |
| ENA 78 - I-st day | 1117.98+/-1053.56 | 1372.26+/-1195.99 | 0.595 |
| ENA 78 - III-rd day | 812.33+/-901.50 | 592.70+/-312.97 | 0.893 |
| Paired comparation(Wilcoxon signed rank test) | 0.049\* | 0.182 | p (Kruskal-Wallis test) |
| IL10 - I-st day | 55.463+/-43.59 | 42.41+/-58.08 | 0.20\* |
| IL10- III-rd day | 25.97+/-18.19 | 111.10 | 0.092\*\* |
| Paired comparation(Wilcoxon signed rank test) | 0.000\* | 0.317 |  |

\* Statistically significant differences observed

\*\* Tendency to obtain a statistical difference

Tables 4. Inflammatory markers in dynamics on the survival group compare to deces group

|  |  |  |  |
| --- | --- | --- | --- |
|  | Survival group | Deces group | p (Kruskal-Wallis test) |
| CRP | 0.78+/-0.76 | 0.60+/-0.00 | 0.461 |
| TNF alpha - I-st day | 13.51+/-25.01 | 7.97+/-7.34 | 0.841 |
| TNF alpha - III-rd day | 10.16+/-14.80 | 4.70+/-4.76 | 0.387 |
| Paired comparation(Wilcoxon signed rank test) | 0.124 | 0.655 |  |
| ENA 78 - I-st day | 1266.60+/-1099.16 | 336.00+/-462.50 | 0.037\* |
| ENA 78 - III-rd day | 737.19+/-781.39 | 1518.27+/-1730.64 | 0.317 |
| Paired comparation(Wilcoxon signed rank test) | 0.026\* | 0.109 |  |
| IL10 - I-st day | 49.15+/-41.68 | 84.15+/-92.70 | 0.312 |
| IL10- III-rd day | 28.51+/-23.41 | 25.25+/-13.50 | 0.782 |
| Paired comparation(Wilcoxon signed rank test) | 0.000\* | 0.180 |  |

\* Statistically significant differences observed

\*\* Tendency to obtain a statistical difference

Table 5. Relations between the neonatal pathology parameters

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Pathology | CRP | TNF alpha - I-st day | TNF alpha - III-rd day | ENA - I-st day | ENA- III-rd day | IL10 - I-st day | IL10- III-rd day |
| RDS | 0.60+/-0.00 | 1.87+/-0.61 | 4.73+/-4.73 | 387.80+/-550.49 | 1303.13+/-1894.33 | 40.27+/-9.04 | 19.67+/-13.59 |
| Cerebral Hemorrhage | 0.90+/-0.73 | 36.05+/-49.53 | 14.35+/-20.09 | 1540.70+/-1295.87 | 611.65+/-270.99 | 50.80+/-67.20 | 24.60+/-27.31 |
| Sepsis | 0.94+/-1.23 | 13.18+/-25.98 | 7.93+/-13.79 | 833.59+/-485.84 | 601.88+/-676.83 | 63.06+/-37.22 | 28.19+/-14.76 |
| NEC | 0.72+/-0.40 | 8.96+/-14.06 | 11.82+/-14.88 | 1420.95+/-1373.88 | 1035.48+/-1042.32 | 52.73+/-44.86 | 25.63+/-19.36 |
| p (Kruskal-Wallis test) | 0.743 | 0.207 | 0.389 | 0.243 | 0.566 | 0.312 | 0.388 |

No correlation was found between MRP and CRP, TNF alfa, Il10,ENA 78 with the exception of the relation between MRP and TNF alfa – 3-rd day with a Spearman correlation coefficient 0,366 (p=0.031).