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| **Supplementary Table**. **Serum vs. Pleural Cytokine Concentrations on Postoperative Day 1** |
|  | Superior Cavopulmonary connection (N=21) |  |  | Superior Cavopulmonary Controls (N=6) |  |
| Cytokine | Pleural Fluid | Serum | *P-value*† |  | Pleural Fluid | Serum | *P-value*† |
| IL-6 | 13,655 (9,388-21,274) | 81.8 (59.0-189) | **<0.0001** |  | 16,913 (14,638-18,363) | 57.0 (55.1-130) | 0.09 |
| IL-8 | 1,271 (960-1,992) | 40.4 (30.0-58.0) | **<0.0001** |  | 1,363 (596-4,907) | 33.8 (25.6-42.3) | 0.22 |
| MIP-1β | 58.6 (33.3-122) | 17.6 (12.4-23.6) | **<0.0001** |  | 59.7 (39.7-93.9) | 11.7 (10.9-15.7) | 0.22 |
| TNF-α | 30.6 (23.7-61.8) | 21.6 (17.0-30.4) | 0.06 |  | 46.8 (30.4-72.6) | 28.5 (27.4-44.4) | 0.31 |
|  | Fontan (N=24) |  |  | Controls (N=11) |  |
| Cytokine | Pleural Fluid | Serum | *P-value*† |  | Pleural Fluid | Serum | *P-value*† |
| IL-6 | 796 (373-1,148) | 2.2 (0.3-7.0) | **<0.0001** |  | 897 (487-1,072) | 3.8 (0.4-5.8) | **0.004** |
| IL-8 | 283 (169-1,325) | 8.9 (7.7-16.3) | **<0.0001** |  | 411 (104-550) | 6.8 (3.7-16.6) | **0.004** |
| MIP-1β | 49.2 (21.2-81.8) | 8.1 (6.0-14.5) | **<0.0001** |  | 25.5 (19.8-41.0) | 5.2 (3.1-7.6) | **0.004** |
| TNF-α | 32.1 (21.7-41.4) | 8.7 (4.6-18.5) | **<0.0001** |  | 17.9 (12.9-26.5) | 19.1 (4.6-31.6) | 0.70 |
| Values are median (interquartile range). **Bold** indicates p-value < 0.05. IL =interleukin; MIP-1 β = macrophage inflammatory protein beta; TNF-α = tumor necrosis factor alpha. † P-value from Wilcoxon signed rank test. |