**Supplementary Table S1: Time course changes in cytokines before and after exercise following WBC or PAS.**

|  |  |  |
| --- | --- | --- |
|  |  | Median and the value of the lower and the upper quartile (Q25-Q75) |
|   |   | Pre | Post | Post 1h | Post 24h | Post 48h | Post 72h | Post 96h |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IL6(pg.ml-1) | WBC $ | 0.115 | 3.203 \* | 1.326 \* | 0.063 # | 0.069 # | 0.069 # | 0.005 # |
| (0.000 | - | 0.316) | (2.152 | - | 4.767) | (0.921 | - | 2.021) | (0.000 | - | 0.518) | (0.000 | - | 0.345) | (0.000 | - | 0.589) | (0.000 | - | 0.320) |
| PAS $ | 0.126 | 3.202 \* | 1.471 \* | 0.152 # | 0.190 # | 0.126 # | 0.295 # |
| (0.000 | - | 0.423) | (2.488 | - | 4.971) | (1.175 | - | 2.108) | (0.115 | - | 0.486) | (0.071 | - | 0.257) | (0.040 | - | 0.510) | (0.000 | - | 0.515) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IL10(pg.ml-1) | WBC $ | 0.509 | 6.792 \* | 5.204 | 0.801 # | 0.743 # | 0.582 # | 0.502 # |
| (0.305 | - | 2.141) | (2.624 | - | 9.285) | (1.530 | - | 7.171) | (0.329 | - | 1.874) | (0.266 | - | 1.288) | (0.319 | - | 0.843) | (0.282 | - | 0.739) |
| PAS $ | 0.651 | 7.434 \* | 3.367 | 0.541 # | 0.601 # | 0.504 # | 0.430 # |
| (0.345 | - | 1.013) | (2.906 | - | 9.074) | (1.519 | - | 6.324) | (0.502 | - | 1.425) | (0.279 | - | 1.297) | (0.242 | - | 1.645) | (0.274 | - | 1.042) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IL1ra(pg.ml-1) | WBC $ | 187 | 345 | 714 \* | 179 # | 179 # | 148 # | 172 # |
| (122 | - | 284) | (190 | - | 657) | (527 | - | 2741) | (120 | - | 290) | (120 | - | 306) | (105 | - | 231) | (93 | - | 242) |
| PAS $ | 231 | 305 | 709 \* | 215 | 203 | 196 # | 189 |
| (134 | - | 254) | (237 | - | 441) | (383 | - | 1077) | (154 | - | 284) | (143 | - | 242) | (123 | - | 244) | (134 | - | 238) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IL1β(pg.ml-1) | WBC $ | 0.145 | 0.253 | 0.295 | 0.260 | 0.171 | 0.166 | 0.149 |
| (0.132 | - | 0.223) | (0.165 | - | 0.277) | (0.244 | - | 0.347) | (0.169 | - | 0.277) | (0.131 | - | 0.196) | (0.134 | - | 0.253) | (0.127 | - | 0.167) |
| PAS $ | 0.153 | 0.183 | 0.325 \* | 0.276 | 0.183 | 0.141 | 0.197 |
| (0.134 | - | 0.193) | (0.169 | - | 0.281) | (0.240 | - | 0.441) | (0.184 | - | 0.309) | (0.172 | - | 0.243) | (0.125 | - | 0.274) | (0.139 | - | 0.226) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CRP(ng.ml-1) | WBC $ | 176 | 176 | 183 | 530 \*, # | 262 | 164 | 145 |
| (105 | - | 265) | (150 | - | 278) | (153 | - | 414) | (339 | - | 810) | (179 | - | 552) | (148 | - | 427) | (107 | - | 340) |
| PAS $ | 173 | 243 | 306 | 847 \*, # | 477 \*, # | 448 \* | 321 |
| (101 | - | 290) | (107 | - | 307) | (120 | - | 590) | (514 | - | 2046) | (323 | - | 1472) | (250 | - | 909) | (162 | - | 629) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TNFα(pg.ml-1) | WBC | 0.423 | 0.475 | 1.246 | 0.336 | 0.380 | 0.221 | 0.080 |
| (0.023 | - | 0.701) | (0.649 | - | 1.577) | (0.369 | - | 0.742) | (0.051 | - | 0.661) | (0.108 | - | 0.980) | (0.099 | - | 0.347) | (0.051 | - | 0.101) |
| PAS | 0.532 | 0.478 | 0.754 | 0.746 | 0.342 | 0.388 | 0.476 |
| (0.242 | - | 0.760) | (0.233 | - | 0.779) | (0.655 | - | 1.086) | (0.410 | - | 1.002) | (0.288 | - | 0.383) | (0.000 | - | 0.478) | (0.042 | - | 1.117) |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

$, represent a significant (p<0.05) time effect; \*, represent a significant (p<0.05) difference from Pre; #, represent a significant (p<0.05) difference from Post. All significant results were not pointed except from Pre and Post to avoid overloading the table.WBC, whole body cryotherapy; PAS, passive rest recovery.