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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PBMT260** | | | |  | **PBMT130** | | |  | **PBMTPLA** | | |
| **Gasometry indicators** | *Rest* | | *50%* | *100%* |  | *Rest* | *50%* | *100%* |  | *Rest* | *50%* | *100%* |
| pH  (a.u) | 7.51 ± 0.02  (7.5 to 7.53 | | 7.39 ± 0.04  (7.36 to 7.42) | 7.33 ± 0.05\*  (7.29 to 7.37) |  | 7.51 ± 0.02  (7.49 to 7.52) | 7.39 ± 0.05  (7.35 to 7.43) | 7.35 ± 0.06\*  (7.31 to 7.39) |  | 7.51 ± 0.02  (7.49 to 7.53) | 7.38 ± 0.03  (7.36 to 7.41) | 7.31 ± 0.11\*  (7.24 to 7.39) |
| (mmol/L) | 28.11 ± 1.07  (27.11 to 29.11) | | 20.90 ± 1.80  (19.23 to 22.56) | 17.28 ± 2.05\*  (15.38 to 19.18) |  | 27.94 ± 1.22  (26.81 to 29.07) | 20.25 ± 1.26  (19.08 to 21.42) | 17.21 ± 1.95\*  (15.40 to 19.02) |  | 28.45 ± 1.87  (26.72 to 30.19) | 20.40 ± 1.60  (18.91 to 21.88) | 15.47 ± 3.59\*  (12.14 to 18.79) |
| BE  (mmol/L) | 3.91 ± 1.27  (2.84 to 4.98) | | -4.76 ± 2.35  (-6.73 to -2.79) | -9.88 ± 3.26\*  (-12.62 to -7.15) |  | 3.92 ± 1.25  (2.87 to 4.97) | -5.81 ± 2.40  (-7.82 to -3.80) | -9.50 ± 2.55\*  (-11.63 to -7.36) |  | 4.52 ± 1.88  (2.94 to 6.10) | -4.80 ± 2.04  (-6.50 to -3.09) | -11.66 ± 5.37\*  (-16.15 to -7.16) |
| K+  (mmol/L) | 4.76 ± 0.68  (4.27 to 5.25) | | 5.89 ± 0.71  (5.37 to 6.40) | 6.17 ± 0.75\*  (5.63 to 6.71) |  | 4.46 ± 0.57  (4.05 to 4.87) | 5.87 ± 0.63  (5.42 to 6.32) | 5.57 ± 0.53\*  (5.18 to 5.95) |  | 4.41 ± 0.51  (4.04 to 4.78) | 5.91 ± 0.90  (5.26 to 6.55) | 5.68 ± 0.76\*  (5.14 to 6.23) |
| Ca++  (mmol/L) | 0.93 ± 0.10  (0.85 to 1.00) | | 0.97 ± 0.13  (0.87 to 1.06) | 0.97 ± 0.10  (0.89 to 1.05) |  | 0.96 ± 0.11  (0.88 to 1.04) | 1.00 ± 0.06  (0.96 to 1.05) | 0.96 ± 0.10  (0.88 to 1.04) |  | 0.91 ± 0.11  (0.83 to 0.99) | 1.05 ± 0.21  (0.89 to 1.20) | 0.92 ± 0.17  (0.80 to 1.05) |
| pO2  (mmHg) | 74.88 ± 8.58  (65.86 to 83.89) | | 75.61 ± 10.00  (65.11 to 86.12) | 91.35 ± 7.90  (83.05 to 99.65) |  | 77.73 ± 5.41  (72.05 to 83.41) | 84.36 ± 19.82  (63.55 to 105.17) | 85.03 ± 20.96  (63.03 to 107.33) |  | 81.01 ± 8.50  (72.09 to 89.93) | 86.13 ± 23.64  (61.32 to 110.94) | 84.11 ± 19.22  (63.93 to 104.29) |
| pCO2  (mmHg) |  | 33.71 ± 1.84  (32.17 to 35.25) | 30.82 ± 4.55  (27.01 to 34.63) | 26.56 ± 2.70\*  (24.30 to 28.82) |  | 34.16 ± 2.79  (31.82 to 36.50) | 31.32 ± 4.30  (27.72 to 34.92) | 26.58 ± 3.86\*  (23.36 to 29.81) |  | 33.71 ± 2.58  (31.55 to 35.87) | 31.66 ± 4.03  (28.29 to 35.03) | 25.67 ± 5.41\*  (21.14 to 30.20) |
| **Respiratory indicators** | *Rest* | | *50%* | *100%* |  | *Rest* | *50%* | *100%* |  | *Rest* | *50%* | *100%* |
| O2  (mL/min/Kg) |  | 5.31 ± 0.49  (4.93 to 5.69) | 45.56 ± 4.58  (42.79 to 48.33) | 47.35 ± 4.78\*  (44.46 to 50.24) |  | 5.25 ± 0.68  (4.72 to 5.78) | 45.57 ± 5.05  (42.51 to 48.62) | 47.58 ± 5.36\*  (44.34 to 50.83) |  | 5.03 ± 1.07  (4.20 to 5.85) | 45.98 ± 5.20  (42.83 to 49.13) | 48.28 ± 4.20\*  (45.74 to 50.82) |
| E  (L/min) |  | 11.45 ± 0.95  (10.71 to 12.18) | 112.65 ± 14.04  (104.17 to 121.14) | 137.02 ± 12.58\*  (129.41 to 144.63) |  | 10.95 ± 1.80  (9.56 to 12.33) | 108.90 ± 15.53  (99.41 to 118.18) | 134.10 ± 12.90\*  (126.30 to 141.90) |  | 10.25 ± 1.87  (8.81 to 11.69) | 109.65 ± 14.93  (99.41 to 118.18) | 137.69 ± 16.10\*  (127.96 to 147.42) |
| RER  (a.u) |  | 0.85 ± 0.08  (0.78 to 0.92) | 1.10 ± 0.04  (1.07 to 1.12) | 1.07 ± 0.03\*  (1.04 to 1.09) |  | 0.80 ± 0.08  (0.74 to 0.87) | 1.08 ± 0.04  (1.05 to 1.11) | 1.05 ± 0.05\*  (1.02 to 1.08) |  | 0.82 ± 0.06  (0.76 to 0.87) | 1.09 ± 0.04  (1.06 to 1.12) | 1.06 ± 0.04\*  (1.03 to 1.09) |
| E/O2  (a.u) |  | 30.47 ± 2.74  (28.37 to 32.58) | 34.58 ± 4.08  (32.11 to 37.05) | 40.50 ± 4.18\*  (37.98 to 43.03) |  | 29.33 ± 3.26  (26.82 to 31.84) | 33.37 ± 4.15  (30.86 to 35.88) | 39.52 ± 4.39\*  (36.86 to 42.18) |  | 28.93 ± 2.88  (26.71 to 31.14) | 33.35 ± 4.05  (30.90 to 35.79) | 39.84 ± 4.54\*  (37.10 to 42.59) |
| E/CO2  (a.u) |  | 35.94 ± 2.42  (34.07 to 37.80) | 31.45 ± 4.04  (29.01 to 33.90) | 37.90 ± 4.52  (35.17 to 40.63) |  | 36.31 ± 2.16  (34.65 to 37.97) | 30.76 ± 3.88  (28.41 to 33.10) | 37.50 ± 4.49  (34.78 to 40.21) |  | 35.34 ± 3.56  (32.59 to 38.08) | 30.55 ± 4.34  (27.93 to 33.17) | 37.56 ± 5.38  (34.31 to 40.82) |

**Table 3.** Kinetic of gasometry and respiratory indicators during constant-load severe-intensity cycling.

Values are expressed in Mean ± SD (CI95%). \*= P<0.05 comparing 100% and rest moments considering the values of all conditions. = sodium bicarbonate; BE= base excess; K+ = potassium ion; Ca++ = calcium ion; pO2 = oxygen capillary partial pressure; pCO2 = carbon gas capillary partial pressure; O2 = oxygen uptake; E: ventilation; RER=respiratory exchange ratio; E/O2 = ventilatory equivalent for oxygen; E/CO2 = ventilatory equivalent for carbon gas; PBMT260 = photobiomodulation therapy with 260 J dose; PBMT130 = photobiomodulation therapy with 130 J dose; PBMTPLA = photobiomodulation therapy with 0 J dose (control condition).