**Supplementary digital content 1**

*Table S1a: Heart rate (All patients)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time point | No anticholinergic | | Anticholinergic | | P-value | Bonferroni adjusted p-value |
| Least square mean | SE | Least square mean | SE |
| Baseline | 97.9588 | 1.8921 | 96.2337 | 2.0330 | 0.5375 | 1.0000 |
| 5 | 77.8072 | 1.8922 | 87.9219 | 2.0425 | 0.0004 | 0.0539 |
| 10 | 78.0152 | 1.8970 | 88.6111 | 2.0425 | 0.0002 | 0.0286 |
| 15 | 77.9527 | 1.8981 | 88.0705 | 2.0425 | 0.0004 | 0.0547 |
| 20 | 76.5057 | 1.8981 | 88.4619 | 2.0485 | <.0001 | 0.0041 |
| 25 | 76.9140 | 1.9026 | 88.3596 | 2.0549 | <.0001 | 0.0092 |
| 30 | 75.6821 | 1.8981 | 87.2063 | 2.0545 | <.0001 | 0.0081 |
| 35 | 75.6465 | 1.9029 | 88.9685 | 2.0740 | <.0001 | 0.0006 |
| PACU | 79.7109 | 1.8933 | 86.7732 | 2.0425 | 0.0122 | 0.0500 |

*Table S1b: Heart rate (Down Syndrome)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time point | No anticholinergic | | Anticholinergic | | P-value | Bonferroni adjusted p-value |
| Least square mean | SE | Least square mean | SE |
| Baseline | 102.91 | 3.8772 | 95.7927 | 2.8201 | 0.1409 | 1.0000 |
| 5 | 78.2415 | 3.8772 | 88.8221 | 2.8201 | 0.0296 | 1.0000 |
| 10 | 80.3526 | 3.8772 | 86.1162 | 2.8201 | 0.2321 | 1.0000 |
| 15 | 80.3653 | 3.9290 | 84.8515 | 2.8201 | 0.3558 | 1.0000 |
| 20 | 80.1888 | 3.9290 | 86.5868 | 2.8201 | 0.1888 | 1.0000 |
| 25 | 79.4830 | 3.9290 | 85.7132 | 2.8374 | 0.2014 | 1.0000 |
| 30 | 79.3065 | 3.9290 | 84.1472 | 2.8558 | 0.3213 | 1.0000 |
| 35 | 78.6594 | 3.9290 | 84.9225 | 2.8746 | 0.2011 | 1.0000 |
| PACU | 80.8947 | 3.9290 | 84.2927 | 2.8201 | 0.4839 | 1.0000 |

*Table S2a: Systolic Blood Pressure (All patients)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time point | No anticholinergic | | Anticholinergic | | P-value | Bonferroni adjusted p-value |
| Least square mean | SE | Least square mean | SE |
| Baseline | 112.42 | 2.0801 | 111.09 | 2.2588 | 0.6659 | 1.0000 |
| 5 | 112.19 | 2.0194 | 116.26 | 2.2723 | 0.1839 | 1.0000 |
| 10 | 113.46 | 2.0147 | 118.19 | 2.2733 | 0.1227 | 1.0000 |
| 15 | 112.80 | 2.0345 | 121.19 | 2.2255 | 0.0059 | 0.9066 |
| 20 | 114.77 | 2.0349 | 118.65 | 2.1907 | 0.1980 | 1.0000 |
| 25 | 114.96 | 2.0157 | 122.03 | 2.1907 | 0.0187 | 1.0000 |
| 30 | 115.07 | 2.0219 | 120.45 | 2.1974 | 0.0744 | 1.0000 |
| 35 | 115.62 | 2.0342 | 119.38 | 2.2241 | 0.2149 | 1.0000 |
| PACU | 114.51 | 2.0342 | 113.84 | 2.1661 | 0.8227 | 1.0000 |

*Table S2b: Systolic Blood Pressure (Down Syndrome)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time point | No anticholinergic | | Anticholinergic | | P-value | Bonferroni adjusted p-value |
| Least square mean | SE | Least square mean | SE |
| Baseline | 121.28 | 5.2864 | 113.38 | 3.7987 | 0.2274 | 1.0000 |
| 5 | 104.98 | 4.9834 | 123.87 | 3.7999 | 0.0032 | 0.5418 |
| 10 | 106.92 | 4.9834 | 123.10 | 3.9085 | 0.0119 | 1.0000 |
| 15 | 106.03 | 5.0560 | 125.70 | 3.7365 | 0.0022 | 0.3804 |
| 20 | 109.94 | 5.1274 | 125.67 | 3.6553 | 0.0138 | 1.0000 |
| 25 | 112.56 | 5.0560 | 128.25 | 3.6809 | 0.0135 | 1.0000 |
| 30 | 112.97 | 5.0560 | 126.16 | 3.7049 | 0.0376 | 1.0000 |
| 35 | 115.56 | 5.0560 | 124.47 | 3.7628 | 0.1603 | 1.0000 |
| PACU | 112.78 | 5.2061 | 113.86 | 3.6517 | 0.8655 | 1.0000 |

*Table S3a: Diastolic Blood Pressure (All patients)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time point | No anticholinergic | | Anticholinergic | | P-value | Bonferroni adjusted p-value |
| Least square mean | SE | Least square mean | SE |
| Baseline | 66.5217 | 1.6534 | 66.0266 | 1.7947 | 0.8402 | 1.0000 |
| 5 | 60.7889 | 1.6087 | 61.9745 | 1.8049 | 0.6262 | 1.0000 |
| 10 | 62.4497 | 1.6053 | 62.1509 | 1.8056 | 0.9022 | 1.0000 |
| 15 | 61.9636 | 1.6199 | 66.6060 | 1.7703 | 0.0552 | 1.0000 |
| 20 | 62.4555 | 1.6202 | 66.5990 | 1.7447 | 0.0845 | 1.0000 |
| 25 | 63.5102 | 1.6060 | 68.1464 | 1.7447 | 0.0528 | 1.0000 |
| 30 | 63.1008 | 1.6062 | 68.1511 | 1.7496 | 0.0352 | 1.0000 |
| 35 | 64.1121 | 1.6105 | 65.8625 | 1.7693 | 0.4677 | 1.0000 |
| PACU | 60.5597 | 1.6196 | 63.2786 | 1.7265 | 0.2545 | 1.0000 |

*Table S3b: Diastolic Blood Pressure (Down Syndrome)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time point | No anticholinergic | | Anticholinergic | | P-value | Bonferroni adjusted p-value |
| Least square mean | SE | Least square mean | SE |
| Baseline | 74.3268 | 4.3757 | 68.4685 | 3.1500 | 0.2796 | 1.0000 |
| 5 | 60.2222 | 4.1634 | 63.5482 | 3.1503 | 0.5255 | 1.0000 |
| 10 | 60.7778 | 4.1634 | 64.9095 | 3.2273 | 0.4346 | 1.0000 |
| 15 | 61.3277 | 4.2147 | 68.5443 | 3.1060 | 0.1711 | 1.0000 |
| 20 | 61.3623 | 4.2648 | 68.7576 | 3.0486 | 0.1614 | 1.0000 |
| 25 | 66.2689 | 4.2147 | 68.8537 | 3.0667 | 0.6211 | 1.0000 |
| 30 | 67.0924 | 4.2147 | 68.7600 | 3.0832 | 0.7501 | 1.0000 |
| 35 | 67.6806 | 4.2147 | 65.4269 | 3.1242 | 0.6684 | 1.0000 |
| PACU | 62.2171 | 4.3200 | 62.9111 | 3.0460 | 0.8958 | 1.0000 |