Appendix Table A1. Participants’ baseline demographic characteristics (n= 1805 participants)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Scale range or category** | **Ondansetron N=132** | | **No Ondansetron N=1673** | | **Included as covariate in multivariable model**  **(for outcome stated below)** | | | |
| N usable | Mean (SD) or Frequency (%) | N usable | Mean (SD) or Frequency (%) | PCS  wk1 | PCS  wk4 | Nausea  wk1 | Nausea  wk4 |
| Age | 0-17.99 | 132 | 10.8 (3.4) | 1673 | 12.2 (3.3) | \* | \* | \* | \* |
| Sex | Female | 132 | 56 (42.4) | 1673 | 715 (42.7) | \* | \* | \* | \* |
| Number of previous concussion | 0-6 (6 includes 6+) | 132 | 0.3 (0.7) | 1665 | 0.4 (0.8) | \* | \* |  |  |
| Prior concussion symptom duration | <1 week | 132 | 117 (88.6) | 1663 | 1419 (85.3) | \* | \* | \* | \* |
| 1-2 weeks | 5 (3.8) | 99 (6.0) |
| 3-4 weeks | 6 (4.5) | 55 (3.3) |
| 5-8 weeks | 1 (0.8) | 33 (2.0) |
| >8 weeks | 3 (2.3) | 57 (3.4) |
| Time between head injury and triage | Hours | 131 | 6.8 (9.4) | 1665 | 9.5 (12.1) | \* | \* | \* |  |
| Lost consciousness duration | Minutes | 132 | 0.1 (0.5) | 1662 | 0.1 (0.7) | \* | \* | \* |  |
| Personal history of migraines | Yes | 131 | 18 (13.7) | 1663 | 243 (14.1) | \* | \* | \* | \* |
| Family history of migraine | Yes | 128 | 69 (53.9) | 1638 | 807 (49.3) | \* | \* | \* |  |
| Prior diagnosis of learning disability | Yes | 132 | 8 (6.1) | 1665 | 134 (8.0) | \* | \* | \* |  |
| Prior diagnosis of attention deficit disorder | Yes | 131 | 8 (6.1) | 1662 | 156 (9.4) | \* |  |  |  |
| Prior diagnosis of anxiety | Yes | 132 | 10 (7.6) | 1668 | 148 (8.9) | \* | \* | \* | \* |
| Prior diagnosis of depression | Yes | 131 | 2 (1.5) | 1670 | 61 (3.7) | \* | \* | \* |  |
| Prior diagnosis of sleep disorder | Yes | 132 | 0 (0.0) | 1665 | 41 (2.5) | \* | \* | \* |  |
| Seizure at time of injury | Yes | 131 | 4 (3.1) | 1666 | 28 (1.7) | \* | \* | \* |  |
| Mechanism of injury | Sports/Recreational Play | 132 | 72 (54.5) | 1672 | 1172 (70.1) | \* | \* | \* |  |
| PCSI-P headache | 0-6 (6=severe) | 131 | 4.1 (1.8) | 1571 | 3.7 (1.8) | \* | \* | \* | \* |
| PCSI-P nausea | 0-6 (6=severe) | 131 | 4.9 (1.5) | 1571 | 3.2 (2.0) | \* | \* | \* | \* |
| PCSI-P balance | 0-6 (6=severe) | 131 | 2.1 (2.0) | 1570 | 1.7 (2.0) | \* | \* | \* |  |
| PCSI-P dizziness | 0-6 (6=severe) | 131 | 3.3 (2.1) | 1570 | 2.8 (2.0) | \* | \* | \* |  |
| PCSI-P sleep more | 0-6 (6=severe) | 131 | 2.9 (2.6) | 1571 | 1.5 (2.2) | \* | \* | \* |  |
| PCSI-P feeling drowsy | 0-6 (6=severe) | 131 | 4.2 (1.8) | 1571 | 3.1 (2.1) | \* |  |  |  |
| PCSI-P sensitivity to light | 0-6 (6=severe) | 131 | 2.3 (2.3) | 1570 | 1.7 (2.1) | \* | \* |  |  |
| PCSI-P sensitivity to noise | 0-6 (6=severe) | 131 | 1.9 (2.2) | 1571 | 1.5 (2.0) | \* | \* | \* |  |
| PCSI-P irritable | 0-6 (6=severe) | 131 | 1.4 (2.1) | 1571 | 0.9 (1.6) | \* | \* | \* |  |
| PCSI-P feeling sad | 0-6 (6=severe) | 131 | 2.0 (2.2) | 1570 | 1.3 (1.9) | \* | \* | \* | \* |
| PCSI-P feeling nervous | 0-6 (6=severe) | 131 | 1.2 (1.7) | 1569 | 0.8 (1.5) | \* | \* | \* |  |
| PCSI-P feeling emotional | 0-6 (6=severe) | 130 | 1.9 (2.1) | 1570 | 1.3 (1.8) | \* | \* | \* |  |
| PCSI-P mental fog | 0-6 (6=severe) | 131 | 2.8 (2.1) | 1569 | 1.9 (2.0) | \* | \* | \* |  |
| PCSI-P difficulty concentrating | 0-6 (6=severe) | 131 | 1.8 (2.1) | 1570 | 1.3 (1.8) | \* | \* |  |  |
| PCSI-P difficulty remembering | 0-6 (6=severe) | 130 | 1.5 (2.0) | 1571 | 1.0 (1.7) | \* | \* | \* | \* |
| PCSI-P vision problems | 0-6 (6=severe) | 131 | 1.4 (2.0) | 1570 | 1.3 (1.9) | \* | \* | \* |  |
| PCSI-P feeling fatigue | 0-6 (6=severe) | 131 | 3.9 (2.0) | 1571 | 3.0 (2.1) | \* | \* | \* | \* |
| PCSI-P feeling confused | 0-6 (6=severe) | 131 | 1.4 (2.0) | 1570 | 0.8 (1.5) | \* | \* | \* |  |
| PCSI-P feeling clumsy | 0-6 (6=severe) | 131 | 1.3 (1.8) | 1571 | 0.9 (1.6) | \* | \* | \* |  |
| PCSI-P answers more slowly | 0-6 (6=severe) | 131 | 2.4 (2.1) | 1569 | 1.6 (1.9) | \* |  |  |  |
| SAC normalized total score |  | 132 | -0.9 (2.1) | 1652 | -0.4 (1.6) | \* | \* | \* | \* |
| BESS tandem stance # of errors | 0-10 (10 includes physically unable to do test) | 129 | 6.3 (3.8) | 1645 | 4.2 (3.8) | \* | \* | \* | \* |

All PCSI-P scores are delta scores (difference between current symptom and pre-injury symptom, if negative value then a score of 0 is given).