**Supplemental Table A.** Accuracy of HHMT during planned path validation (purposeful activation), stratified by hospital building and unit

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Sensitivity** | **PPV** | **N** |
| **Building A** | **92.6%** | **99.0%** | **1,565** |
| Unit 1 | 97.4 | 100.0 | 151 |
| Unit 2 | 88.6 | 100.0 | 158 |
| Unit 3 | 95.6 | 100.0 | 69 |
| Unit 4 | 89.4 | 98.6 | 162 |
| Unit 5 | 97.2 | 100.0 | 144 |
| Unit 6 | 94.2 | 100.0 | 155 |
| Unit 7 | 96.7 | 96.2 | 191 |
| Unit 8 | 89.2 | 97.4 | 217 |
| Unit 9 | 90.3 | 100.0 | 124 |
| Unit 10 | 94.8 | 100.0 | 58 |
| Unit 11 | 89.0 | 100.0 | 136 |
| **Building B** | **85.2%** | **99.5%** | **2,518** |
| Unit 12 | 90.7 | 100.0 | 237 |
| \*Unit 13 | 85.5 | 100.0 | 228 |
| Unit 14 | 95.3 | 95.3 | 170 |
| Unit 15 | 86.3 | 98.7 | 273 |
| Unit 16 | 93.2 | 100.0 | 234 |
| \*Unit 17 | 63.5 | 100.0 | 219 |
| Unit 18 | 92.0 | 100.0 | 225 |
| Unit 19 | 90.6 | 100.0 | 361 |
| Unit 20 | 87.6 | 100.0 | 340 |
| \*Unit 21 | 77.9 | 100.0 | 231 |
| **Building C** | **93.3%** | **98.7%** | **789** |
| Unit 22 | 92.9 | 98.6 | 227 |
| Unit 23 | 91.9 | 98.8 | 261 |
| Unit 24 | 95.0 | 99.0 | 301 |

 \*Indicates a unit facing southwest

**Supplemental Table B.** Accuracy of HHMT during behavioral validation (observation of natural behavior), stratified by hospital building and unit

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Sensitivity** | **PPV** | **N** | **Visitor activity** |
| Building A | **94.2%** | **89.7%** | **1,681** | **11.5% (121/1056)** |
| Unit 1 | 98.1 | 83.5 | 123 | 11.1 (4/36) |
| Unit 2 | 93.9 | 93.9 | 141 | 13.3 (8/60) |
| Unit 3 | 94.9 | 92.9 | 148 | 8.2 (12/146) |
| Unit 4 | 96.1 | 97.0 | 105 | 9.9 (7/71) |
| Unit 5 | 82.6 | 96.5 | 137 | 20.3 (27/133) |
| Unit 6 | 96.5 | 89.3 | 253 | 16.0 (38/237) |
| Unit 7 | 89.3 | 97.1 | 153 | 1.8 (1/56) |
| Unit 8 | 91.5 | 93.1 | 63 | 13.6 (6/44) |
| Unit 9 | 100.0 | 73.5 | 234 | 13.5 (8/59) |
| Unit 10 | 93.2 | 95.7 | 198 | 4.0 (8/199) |
| Unit 11 | 100.0 | 88.1 | 126 | 13.3 (2/15) |
| Building B | **91.7%** | **81.7%** | **2,447** | **22.0% (129/593)** |
| Unit 12 | 92.0 | 81.7 | 270 | 20.0 (10/50) |
| Unit 13 | 95.5 | 88.0 | 199 | 18.7 (14/75) |
| Unit 14 | 94.1 | 82.7 | 243 | 4.0 (2/50) |
| Unit 15 | 96.3 | 78.3 | 275 | 18.2 (10/55) |
| Unit 16 | 94.1 | 78.7 | 232 | 41.7 (25/60) |
| Unit 17 | 86.7 | 69.1 | 240 | 21.9 (14/64) |
| Unit 18 | 90.8 | 86.3 | 223 | 17.6 (9/51) |
| Unit 19 | 89.5 | 89.0 | 287 | 21.7 (13/60) |
| Unit 20 | 87.3 | 82.4 | 178 | 23.2 (20/86) |
| Unit 21 | 90.7 | 80.9 | 300 | 28.6 (12/42) |
| Building C | **92.5%** | **82.7%** | **1,411** | **15.5% (62/399)** |
| Unit 22 | 80.2 | 92.9 | 139 | 3.3 (3/60) |
| Unit 23 | 96.0 | 78.6 | 749 | 20.5 (40/195) |
| Unit 24 | 91.5 | 86.4 | 523 | 13.2 (19/144) |