**Supplementary Appendix**

**Comparison of hand hygiene adherence rates for each hospital by unit and healthcare worker subgroup between the pre- and post-intervention periods**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ward/Unit** | **Healthcare worker subgroup** | **Pre-intervention period** | **Post-intervention period** | **Improvement after intervention (%)** | **P value** |
| **Number ofobservations** | **Hand hygiene adherence (%)** | **Number ofobservations** | **Hand hygiene adherence (%)** |
| Hospital A |  |  |  |  |  |  |  |
|  Surgery | Nurse | 147  | 8  | 173  | 39  | 31  | <0.001 |
|  | Physician | 136  | 14  | 137  | 47  | 33  | <0.001 |
|  | All | 283  | 11  | 310  | 43  | 32  | <0.001 |
|  Medicine | Nurse | 158  | 10  | 191  | 58  | 48  | <0.001 |
|  | Physician | 157  | 12  | 180  | 42  | 30  | <0.001 |
|  | All  | 315  | 11  | 371  | 50  | 39  | <0.001 |
|  ICU | Nurse | 151  | 11  | 202  | 32  | 21 | <0.001 |
|  | Physician | 57  | 7  | 111  | 40  | 33  | <0.001 |
|  | All  | 208  | 10  | 313  | 35  | 25  | <0.001 |
|  ED | Nurse | 30  | 13  | 38  | 34  | 21  | 0.05 |
|  | Physician | 92  | 12  | 98  | 12  | 0  | 0.95 |
|  | All  | 122  | 12  | 136  | 18  | 6  | 0.18 |
|  ALL  | Nurse | 486  | 10  | 604  | 42  | 32  | <0.001 |
|  | Physician | 442  | 12 | 526  | 37  | 25 | <0.001 |
|  | All  | 928  | 11  | 1130  | 40  | 29  | <0.001 |
|  |  |  |  |  |  |  |  |
| Hospital B |  |  |  |  |  |  |  |
|  Surgery | Nurse | 152  | 30  | 147  | 44  | 14  | 0.01 |
|  | Physician | 142  | 33  | 147  | 35  | 2  | 0.78  |
|  | All  | 294  | 31  | 294  | 39  | 8  | 0.05  |
|  Medicine | Nurse | 146  | 20  | 149  | 31  | 11  | 0.04  |
|  | Physician | 147  | 32  | 155  | 42  | 10  | 0.07  |
|  | All  | 293  | 26  | 304  | 37  | 11  | 0.007  |
|  ED | Nurse | 140  | 16  | 135  | 25  | 9  | 0.73  |
|  | Physician | 140  | 16  | 176  | 7  | -9 | 0.02a |
|  | All  | 280  | 16  | 311  | 15  | -1 | 0.75  |
|  ALL  | Nurse | 438  | 22  | 431  | 33  | 11  | <0.001 |
|  | Physician | 429  | 27  | 478  | 27  | 0  | 0.99 |
|  | All  | 867  | 25  | 909  | 30  | 5  | 0.01  |
|  |  |  |  |  |  |  |  |
| Hospital C |  |  |  |  |  |  |  |
|  Surgery | Nurse | 156  | 20  | 160  | 39  | 19  | <0.001 |
|  | Physician | 146  | 8  | 164  | 46  | 38  | <0.001 |
|  | All  | 302  | 15  | 324  | 42  | 27 | <0.001 |
|  Medicine | Nurse | 151  | 40  | 168  | 26  | -14 | 0.007 a |
|  | Physician | 131  | 2  | 117  | 5  | 3  | 0.15  |
|  | All  | 282  | 22  | 285  | 18  | -4 | 0.15  |
|  ICU | Nurse | 154  | 30  | 177  | 17  | -13 | 0.008 a |
|  | Physician | 146  | 10  | 157  | 20  | 10 | 0.009  |
|  | All  | 300  | 20  | 334  | 19  | -1 | 0.72  |
|  ALL  | Nurse | 461  | 30  | 505  | 27  | -3 | 0.30  |
|  | Physician | 423  | 7  | 438  | 26  | 19  | <0.001 |
|  | All  | 884  | 19  | 943  | 27  | 8  | <0.001 |

Abbreviations: ICU, Intensive Care Unit; ED, Emergency Department

a Significantly worse than in pre-intervention period.