**Appendix B: Results of Bivariate Analyses**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | n (%) | Percentages of all surfaces cleaned (%) | | Percentages of surfaces cleaned in main room (%) | | | | | | Percentages of surfaces cleaned in bathroom (%) | | | | | | Cleaning duration  (min) | |
| Total | | High-touch surfaces | | Non-high-touch surfaces | | Total | | High-touch surfaces | | Non-high-touch surfaces | |
| Median (IQR)\* | p | Median (IQR) | p | Median (IQR) | p | Median (IQR) | p | Median (IQR) | p | Median (IQR) | p | Median (IQR) | p | Median (IQR) | p |
| **All** | 89 (100) | 63  (54, 72) |  | 59  (50, 73) |  | 68  (50, 82) |  | 50  (36, 60) |  | 65  (52, 78) |  | 75  (63, 88) |  | 56  (40, 73) |  | 14  (12, 19) |  |
| **Type of unit\*\*** | | | | | | | | | | | | | | | | | |
| G | 71 (80) | 63  (52, 71) | *.012* | 58  (47, 69) | *.002* | 67  (50, 78) | *.001* | 50  (39, 60) | *.001* | 70  (48, 78) | .310 | 75  (63, 88) | .358 | 60  (47, 79) | *.047* | 15  (11, 20) | .229 |
| P | 10 (11) | 74  (66, 79) |  | 77  (73, 85) |  | 84  (83, 89) |  | 67  (53, 87) |  | 64  (52, 78) |  | 75  (63, 88) |  | 60  (40, 67) |  | 16  (13, 18) |  |
| C | 8  (9) | 56  (50, 60) |  | 56  (50, 61) |  | 72  (66, 78) |  | 27  (22, 37) |  | 60  (49, 67) |  | 94  (69, 100) |  | 38  (31, 48) |  | 13  (11, 14) |  |
| **Under isolation precautions** | | | | | | | | | | | | | | | | | |
| No | 54  (61) | 63  (49, 71) | .182 | 59  (50, 69) | .520 | 68  (58, 78) | .946 | 47  (33, 60) | .105 | 65  (48, 74) | .082 | 75  (63, 88) | .467 | 55  (38, 67) | *.046* | 14  (11, 18) | .111 |
| Yes | 35  (39) | 64  (56, 75) |  | 61  (48, 77) |  | 67  (50, 83) |  | 53  (40, 67) |  | 70  (57, 83) |  | 86  (63, 88) |  | 60  (47, 80) |  | 15  (12, 22) |  |
| **Presence of patient/family** | | | | | | | | | | | | | | | | | |
| Neither | 22  (25) | 70  (63, 75) | *.005* | 74  (58, 79) | *.002* | 83  (68, 85) | *.002* | 54  (40, 79) | *.020* | 68  (61, 74) | .171 | 75  (75, 88) | .400 | 60  (50, 69) | .259 | 15  (11, 19) | .921 |
| Patient only | 54  (61) | 62  (54, 71) |  | 59  (49, 66) |  | 67  (50, 78) |  | 52  (40, 60) |  | 70  (48, 78) |  | 82  (63, 88) |  | 55  (46, 73) |  | 15  (12, 19) |  |
| Patient & family | 13  (14) | 53  (37, 59) |  | 50  (29, 59) |  | 56  (32, 71) |  | 33  (29, 44) |  | 57  (41, 65) |  | 75  (50, 88) |  | 40  (31, 71) |  | 13  (11, 19) |  |
| **Type of wipe used** | | | | | | | | | | | | | | | | | |
| Disinfectant wipe | 69  (78) | 61  (52, 72) | .155 | 59  (47, 66) | *.026* | 67  (50, 78) | *.010* | 50  (33, 60) | .162 | 65  (48, 78) | .802 | 80  (63, 88) | .988 | 53  (38, 79) | .790 | 14  (12, 19) | .790 |
| Microfiber cloth | 20  (22) | 65  (59, 74) |  | 68  (56, 77) |  | 80  (67, 87) |  | 53  (43, 67) |  | 64  (54, 72) |  | 75  (69, 88) |  | 58  (47, 67) |  | 15  (11, 18) |  |
| **Time period of shift** | | | | | | | | | | | | | | | | | |
| First half | 67  (75) | 63  (54, 71) | .924 | 59  (50, 66) | .356 | 67  (56, 78) | .361 | 47  (39, 60) | .620 | 70  (57, 78) | *.016* | 88  (75, 88) | *.001* | 53  (47, 75) | .119 | 15  (12, 20) | *.016* |
| Second half | 22  (25) | 66  (40, 73) |  | 69  (44, 79) |  | 76  (47, 84) |  | 52  (29, 75) |  | 58  (36, 73) |  | 65  (38, 83) |  | 59  (20, 67) |  | 13  (9, 16) |  |
| **Main room cleaning pattern\*\*\*** | | | | | | | | | | | | | | | | | |
| C/CC | 28  (31) | 60  (53, 70) | *.005* | 59  (52, 62) | *<.001* | 68  (54, 78) | *<.001* | 47  (35, 60) | *.002* | 67  (51, 78) | .588 | 88  (75, 88) | .483 | 53  (37, 73) | .543 | 15  (13, 20) | .407 |
| H/V | 37  (42) | 67  (54, 73) |  | 61  (50, 69) |  | 68  (58, 82) |  | 50  (40, 60) |  | 70  (57, 78) |  | 75  (63, 88) |  | 60  (47, 73) |  | 15  (11, 19) |  |
| Random | 15  (17) | 68  (63, 76) |  | 75  (55, 83) |  | 83  (71, 84) |  | 62  (60, 75) |  | 65  (46, 74) |  | 75  (63, 83) |  | 60  (40, 73) |  | 13  (11, 15) |  |
| Local | 9  (10) | 50  (34, 60) |  | 41  (29, 46) |  | 41  (28, 56) |  | 33  (29, 40) |  | 57  (42, 70) |  | 88  (50, 100) |  | 53  (38, 53) |  | 12  (9, 23) |  |
| **Bathroom cleaning order** | | | | | | | | | | | | | | | | | |
| Last | 64  (72) | 64  (55, 73) | .072 | 59  (50, 73) | .607 | 68  (53, 83) | .553 | 53  (40, 60) | .517 | 69  (57, 78) | *.023* | 78  (75, 88) | *.023* | 60  (47, 74) | *.017* | 15  (13, 20) | *.006* |
| Middle | 10  (11) | 59  (45, 69) |  | 54  (31, 69) |  | 62  (50, 77) |  | 47  (29, 58) |  | 67  (42, 70) |  | 71  (50, 100) |  | 53  (40, 57) |  | 11  (8, 12) |  |
| First | 12  (14) | 60  (54, 73) |  | 61  (52, 76) |  | 76  (66, 79) |  | 37  (26, 75) |  | 65  (56, 71) |  | 87  (69, 100) |  | 48  (35, 68) |  | 14  (12, 20) |  |
| Not cleaned | 3  (3) | 37  (37, 40) |  | 47  (44, 69) |  | 47  (42, 83) |  | 50  (39, 54) |  | 0  (0, 0) |  | 0  (0, 0) |  | 0  (0, 0) |  | 10  (8, 14) |  |
| **Any interruptions during cleaning** | | | | | | | | | | | | | | | | | |
| No | 39  (44) | 63  (54, 73) | .775 | 61  (50, 75) | .833 | 68  (61, 82) | .588 | 47  (29, 60) | .283 | 65  (48, 74) | .434 | 88  (63, 88) | .390 | 53  (38, 67) | .180 | 13  (11, 16) | *.002* |
| Yes | 50  (56) | 64  (54, 72) |  | 59  (49, 69) |  | 68  (50, 82) |  | 53  (39, 60) |  | 69  (57, 78) |  | 75  (63, 88) |  | 60  (47, 79) |  | 16  (13, 21) |  |

\* IQR: interquartile range

\*\* G: general medicine and infectious diseases units; P: physical medicine and rehabilitation unit; C: colorectal specialty unit

\*\*\* C/CC: clockwise or counter-clockwise; H/V: horizontal or vertical