Supplementary Table 1. Post-randomization characteristics of residential care homes for the elderly (RCHEs) in the intervention and non-intervention arm

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|  | Five RCHEs in intervention arm | Five RCHE non-intervention arm | P value |
| Number of registered resident per RCHE (mean ± SD) | 79± 46 | 75± 61 | 0.907 |
| Number of staff employed per RCHE(mean ± SD) | 33± 22 | 27± 20 | 0.686 |
| Number of staff working in day time per RCHE (mean ± SD) | 11± 7 | 10± 8 | 0.809 |
| Resident to staff ratio in day time per RCHE (mean ± SD) | 7.3± 1.0 | 8.1± 2.8 | 0.604 |
| Number of resident who can take meal themselves per RCHE (mean ± SD) | 45± 34  | 58± 49 | 0.631 |
| Number of resident recruited for MDROs screening per RCHE (mean ± SD) | 49± 23 | 54±33 | 0.846 |
| Percentage of resident colonized with MRSA per RCHE (mean ± SD) | 45.6± 15.5 | 37.0 ± 6.3 | 0.283 |
| Percentage of resident colonized with CRA per RCHE (mean ± SD) | 11.1 ± 10.1  | 9.4 ± 7.1 | 0.764 |
| Percentage of resident colonized with ESBL-E per RCHE (mean ± SD) | 61.8 ± 11.4 | 57.0± 14.1 | 0.597 |
| Percentage of resident colonized with any MDROs per RCHE (mean ± SD) | 77.3 ± 13.1 | 72.6 ± 11.5 | 0.559 |

Note. CRA, carbapenem-resistant *Acinetobacter species*; ESBL-E; extended-spectrum beta-lactamase - producing Enterobacteriaceae; MDROs, multidrug-resistant organisms; MRSA, methicillin-resistant *Staphylococcus aureus*; RCHE, residential care home for the elderly; SD, standard deviation.