Table S1: Summary of human factors study participants

|  | **Nursing Home 1** | **Nursing Home 2** |
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| 1. **Initial Evaluation** | **Infection Prevention Meeting** Research team: 2 HF, 1 IP HCWs present: 3 DON/IPs | **Infection Prevention Meeting** Research team: 2 HF, 1 IP HCWs present: 2 DON/IPs |
| 1. **Participatory Design Sessions** | **Feedback session** Research team: 2 HFs, 1 IP HCWs present: 5 RNs, 10 GNAs | **Feedback session** Research team: 2 HFs, 1 IP HCWs present: 6 RNs, 6 GNAs |
| 1. **Contextual inquiry sessions** | Research team: 2 HFs HCWs observed: 24 (RNs, GNAs, Helping hand, PTs) | Research team: 2 HFs HCWs observed: 12 (RNs, GNAs, PTs) |
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| 1. **Semi-structured Interviews** | **Pre, mid and post intervention interviews:** Research team: 2 HFs, 1 IP HCWs present: 1 RN, 2 GNAs | **Pre, mid and post intervention interviews:** Research team: 2 HFs, 1 IP HCWs present: 1RN, 2 GNAs |
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| 1. **Training** | Research team: 1 IP HCWs present: 56 (RNs, LPNs, GNAs) | Research team: 1 IP HCWs present: 57 (RNs, LPNs, GNAs, PT, EVS, admin) |

Definitions: HF = Human Factors, IP = Infection Preventionist, DON = Director of Nursing, RN = Registered Nurse, GNA = Geriatric Nursing Assistant, Helping hand = GNA in training, PT= Physical Therapist, LPN = Licensed Practical Nurse, EVS = Environmental Services, Admin = Administrative healthcare worker.