**Supplementary Materials**

**Supplementary material 5.15.** A3-size colour posters featuring the name of the LTCF.

A poster with hands and text

Description automatically generated

**Supplementary material 5.16.** Reminder design 1 "Have you cleaned your hands yet before contacting the residents?"

A blue and yellow bottle with a straw

Description automatically generated

**Supplementary material 5.17.** Reminder design 2 "Have you cleaned your hands after touching the environmental surrounding?"

A hand with wheat on it

Description automatically generated

**Supplementary material 5.18.** Reminder design 3 "Have you cleaned your hands?"

A poster of hands washing soap

Description automatically generated

**Supplementary material 5.19.** Fact sheet on antibiotic resistance and standard precaution.A screenshot of a cell phone

Description automatically generated