

APPENDIX A

FLOWSHEET FOR HAND HYGIENE OBSERVATION

Instructions: Observe and record each opportunity and episode of meal-related hand hygiene behaviors.

Date	Time (in seconds) required for pre- meal hand hygiene episode or reason if not completed (participant refused, healthcare provider refused, medical device interfered with hand hygiene, unable to access supplies, etc.)	Episodes of respiratory hygiene	Episodes of T-zone touching	Miscellaneous hand hygiene observations (If participant leaves to use restroom, prefers soap and water, etc.)
Participant				
Before breakfast				
Before lunch				
Before evening meal				

APPENDIX B

PARTICIPANT DEMOGRAPHICS AND ENVIRONMENTAL CONTEXT

QUESTIONNAIRE

Demographics:

Participant Identification: _____ Unit: _____

Relationship Status: _____ Single _____ Married _____ Widowed

Gender: _____ Male _____ Female

Race: _____ Black _____ White _____ Hispanic
_____ Other

Primary Diagnosis/Diagnoses _____

_____ History of dry eyes

Assistive devices: _____ Walker _____ Wheelchair

_____ Oxygen

Variables: Interval Ratio

_____ Age in years

_____ BIMS score

_____ Number of routine medications

_____ Number of total daily doses of routine medications

Portal of entry: Number of indwelling devices at time of study entry:

_____ Urinary Catheter

_____ Central Line

_____ Peripheral IV

_____ Other (list) _____

Number of days in facility on entry to study: _____ Days

APPENDIX C

RISK FOR HEALTHCARE-ASSOCIATED INFECTIONS TOOL

Participant: _____ Date: _____

Location: _____ Rater: _____

Is the resident over the age of 65 years of age? _____ Yes _____ No

Does the resident have a history of healthcare-associated infections?

_____ Yes _____ No

Is the resident currently taking antibiotics?

_____ Yes _____ No

Does the resident take any medications which suppress his/her immune system?

_____ Yes _____ No

Is the resident being treated for chronic health diseases such as diabetes?

_____ Yes _____ No

Does the resident have trouble controlling his/her bowels or bladder?

_____ Yes _____ No

Does the resident have any open wounds, including surgical sites?

_____ Yes _____ No

Does the resident have any medical devices such as a urinary catheter or intravenous line?

_____ Yes _____ No

Has the resident been in this facility for more than 30 days?

_____ Yes _____ No

Does the resident have a semi-private room?

_____ Yes _____ No

Does the resident participate in social activities within the long-term care facility?

_____ Yes _____ No

Does the resident have visitors once a week or more?

_____ Yes _____ No

Total score = Number of yes responses _____


Possible range of scores is 0-12, with higher scores indicating greater risk for healthcare-associated infections.

APPENDIX D


HEALTH BELIEFS RELATED TO HAND HYGIENE TOOL

Instructions: Please indicate how strongly you agree or disagree with each of the following statements by placing an “X” in the appropriate column.

Perceived Susceptibility	Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)
As a long-term care facility resident, it is very likely I may get an infection.					
My health condition makes me more likely to get an infection than others.					
I am concerned about getting an infection from others in the long-term care facility.					

I am more likely to get an infection because I touch my eyes, nose, or mouth with my hands.					
Covering my coughs and sneezes with my hands makes me more likely to spread an infection. 					
Failing to clean my hands before meals can make me sick.					

Perceived Seriousness	Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)
Infections are a serious problem for long-term care facility residents like me.					
If I had an infection my quality of life could be affected.					
Infections would affect my ability to be with my family and friends.					
Problems I may experience from an infection could last a long time.					
Infections can be more serious for those who are very young or very old.					

Perceived Benefits	Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)
Cleaning my hands is really not important.					
Cleaning my hands can keep me healthy.					
Cleaning my hands may prevent me from getting an infection.					
Coughing and sneezing into my elbow keeps my hands clean. 					
By avoiding touching my eyes, nose, and mouth I can prevent infection.					
Cleaning my hands is an easy way to prevent infections.					
Cleaning my hands prevents spreading infection to others.					
I can be an example to others by cleaning my hands.					

Perceived Barriers	Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)
I do not know how to properly clean my hands.					
I often forget to clean my hands before I eat.					
The staff forget to help me clean my hands.					
The staff are too busy to help me clean my hands.					
I need help to clean my hands.					
Cleaning my hands can be irritating to my skin.					
I cannot access the supplies to clean my hands.					

Cues to Action	Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)
Following directions from staff benefits my health.					
I clean my hands when they are soiled.					
I find visual reminders help me remember to take healthy actions.					
I find verbal reminders help me remember to take healthy actions.					
When I clean my hands, it may remind others to clean their hands.					
Seeing the staff clean their hands reminds me to clean my hands.					

Self-efficacy	Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)
I know how to clean my hands.					
I am able to properly clean my hands.					
I can keep my hands from getting soiled.					
I have cleaned my hands today.					
I do what I can to improve my health.					
I prevent infections by keeping my hands clean.					
I know how to get help if I need it to clean my hands.					

APPENDIX E

VISUAL CUE



**Enjoy
your
meal!**



**Have a
nice day!**



**Live,
Laugh,
Love**

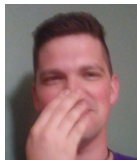
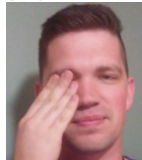
**To Help You &
Your Friends Stay
Healthy**



**Always
cough or
sneeze
into your
elbow**

**To Help You &
Your Friends Stay
Healthy**

**Avoid
touching
your eyes,
nose, or
mouth**



**To Help You &
Your Friends Stay
Healthy**



**Clean
your
hands**

APPENDIX F

PARTICIPANT'S REACTION TO THE HAND HYGIENE INTERVENTION

Instructions: Please indicate how strongly you agree or disagree with each of the following statements by checking the box following the option which best indicates your response.

Susceptible

Did knowing your risk for healthcare-associated infections improve your hand cleaning practices?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To a Large Extent

Please comment on any score below "to a moderate extent"

Barriers

Do you consider the nurses and staff support your efforts to clean your hands?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To a Large Extent

Please comment on any score below "to a moderate extent"

Cues

Did the visual reminders improve your hand cleaning practices?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To
a Large Extent

Please comment on any score below “to a moderate extent”

Did the verbal reminders improve your hand cleaning practices?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To
a Large Extent

Please comment on any score below “to a moderate extent”

Outcome

Were the educational activities you participated in important to improve your hand cleaning
practices?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To
a Large Extent

Please comment on any score below “to a moderate extent”

Was the use of the disposable wipes well tolerated by your hands?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To
a Large Extent

Please comment on any score below “to a moderate extent”

Self-efficacy

Has being observed made you pay more attention to your hand cleaning practices?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To

a Large Extent

Please comment on any score below “to a moderate extent”

Has the hand cleaning program helped you personally to improve your hand cleaning practices?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To

a Large Extent

Please comment on any score below “to a moderate extent”

Has your awareness of your role in preventing health-care-associated infection through

improving your hand cleaning practices increased during the current hand cleaning program?

☐ Not at All ☐ To a Small Extent ☐ To Some Extent ☐ To a Moderate Extent ☐ To

a Large Extent

Please comment on any score below “to a moderate extent”

My goal was to help you learn more about infections and what you can do to prevent them.

How effective was this program?

If I were to do it again, what suggestions do you have for me?

Thank you very much for your time!

(WHO, 2009)