

MEASURE OF HAND HYGIENE COMPLIANCE (HHC) – INSTRUCTIONS FOR AUDIT

Hand Hygiene Compliance (HHC) is carried out by an observer using standard tools designed by World Health Organization (WHO) and Hand Hygiene Australia. The tools are based on WHO's 'my five moments for Hand Hygiene' platform. The observer is expected to visit the units (Intensive Care Units) and to observe the practices of different health care workers. Each Hand Hygiene (HH) opportunity and the action taken following each opportunity should be carefully entered into the standard format. The opportunity needs to be entered in one of the following ways; Before-Patient Contact (**Bef-Pat**), Before Aseptic Procedure (**Bef-Aspt**), After Body Fluid Exposure (**Aft-B.F**), After Patient Contact (**Aft-Pat**) or After Contact with Patient's Surroundings (**Aft-P. sur**). Hand Hygiene Action needs to be entered as 'rub', 'was' or 'missed' in the form.

The duration of observation in each audit session should be at least 20 minutes and should not exceed 20 observations per session. The observer may follow a single health care worker (HCW) till his/her actions are completed or may follow several health care workers together. But, utmost care should be taken to avoid selection of health care workers to follow during audits (please note that the auditor should select HCW as randomly as possible and should not have preplans to follow a particular individual HCW during an audit session). Audit in a particular unit should be arranged at similar times of the day as much as possible (preferably in the morning session).

After completion of 300 – 350 observations, an auditor could finish a single audit cycle. Upon analysis of data of a unit, the auditor should arrange a date to discuss the results of observations and should arrange an education session on HH with the help of a Consultant Microbiologist in the hospital. For calculation of Category-Specific HHC Rates, there need to be at least 20 observations per HCW category. An unusually high compliance rates are possible when smaller number of observations are included in the analysis process. But, these low numbers of observations could be used to obtain the final unit specific rate of HHC (Composite Rate). The second cycle for the audit could be commenced in the second

quarter of the year preferably after three months the first audit cycle. Ideally, each unit should have four audit cycles per annum.

The data obtained during audits could be transferred on to Audit Tool 2 and forwarded to the Directorate of Healthcare Quality & Safety of the Ministry of Health and Indigenous Medicine through e-mail (dhqualitys@gmail.com) or by mail on quarterly basis for action.

An auditor needs to be full conversant with the process of auditing of HHC and should have participated in at least one four-hour audit workshop session conducted by the Ministry of Health and Indigenous Medicine.

AUDIT RULES

1. An auditor should record only observations seen by the auditor. He/she should not imagine or guess the actions of the HCW.
2. An auditor should not attempt to audit health care workers attending an emergency.
3. Auditor should take utmost care to avoid bias upon entering data to the form. He/she should visit several times to the unit to familiarize her presence in the unit before attempting the audit. All necessary permission should be obtained from hospital administration, Consultant and the in-charge sister of the unit etc before commencing the audit. The auditor should not argue or advise on practices of HCWs during the audit session. Other than for obtaining permission, the auditor should never divulge the reason for his/her presence at the relevant unit.
4. The duration of each audit session should not exceed more than 20 minutes and also the session should be limited to a number of 20 observations. An audit cycle should have at least 300 to 350 observations.
5. Recording five moments
 - a. Record opportunity **Aft-Pat** only when HCW touches the patient (patient or devices attached to the patient).

- b. Moment two (**Bef-Aspt**) should be performed immediately before the procedure.
 - c. Moment three (**Aft-B.F**) is expected to follow immediately after the exposure.
 - d. Moment four (**Aft-Pat**) is expected to perform immediately after patient contact and before moving to the next patient.
 - e. Record moment five (**Aft-P.sur**) when the HCW touches a patient's zone only.
 - f. **Bef-Pat** moments should be followed by **Aft-Pat** and **Bef-Aspt** should be followed by **Aft-Pat** moments. **Aft-P.sur** and **Aft-B.F** are stand along moments.
6. Use of Gloves should not be audited. Therefore, if an auditor were to record **Bef-Pat** rub/wash, the HCW should in engage in HH immediately before wearing gloves. If were to report **Aft-Pat** rub or wash, the HCW needs to engage in HH soon after removal of gloves.
7. Bonus Moments – HCWs who engage in HH at very crucial moments will be awarded with an additional HH moment. It is known as a bonus moment; ex: HCW after completing an act of HH, moving to the next patient immediately without touching anything on his/her way to the second patient. Practically, the observer sees only one moment, but the auditor will record it as two moments instead of one.

HAND HYGIENE COMPLIANCE (HHC) RATES

A. Total Hand Hygiene Compliance

$$\text{Total HHC for the Unit} = \frac{\text{Total Correct Moments}}{\text{Total Observed Moments}} \times 100$$

*** The auditor could assess the HHC separately for individual units and also could calculate a composite figure for all units which will reflect HHC among all critical units.

B. Job Category-Specific Hand Hygiene Compliance

$$\text{HHC (Nurses)} = \frac{\text{Total Correct Moments (Nurses)}}{\text{Total Observed Moments (Nurses)}} \times 100$$

*** The auditor could work out HHC for different job categories such as Medical Officers, Attendants and Nurses etc.

C. Hand Hygiene Compliance among Specific Categories

$$\text{HHC (Female Nurses)} = \frac{\text{Total Correct Moments (Female Nurses)}}{\text{Total Observed Moments (Female Nurses)}} \times 100$$

*** Auditor can work out HHC for other categories by changing bold prints with a different job category.

D. Moment Specific Hand Hygiene Compliance

$$\text{HHC for all Bef-Pat moments} = \frac{\text{Total Correct Bef-Pat Moments}}{\text{Total Observed Bef-Pat Moments}} \times 100$$

*** The auditor can work out HHC in relation to other moments by changing the bold print with different moments.

Hand Hygiene Observation - Data Collection Form

Audit Form No.

Unit

Start Time

Finish Time

Date

Auditor

Duration of Session (Mins.)

| HCW | Moment | Action | HCW | Moment | Action | HCW | Moment | Action |
|-----|--|--|-----|--|--|-----|--|--|
| | <input type="radio"/> Bef.- Pat. <input type="radio"/> Bef. - aspt. <input type="checkbox"/> Aft. - B.f. <input type="checkbox"/> Aft. Pat. <input type="checkbox"/> Aft.- P.Surr. | <input type="checkbox"/> Rub <input type="checkbox"/> Wash <input type="checkbox"/> Missed | | <input type="radio"/> Bef.- Pat. <input type="radio"/> Bef. - aspt. <input type="checkbox"/> Aft. - B.f. <input type="checkbox"/> Aft. Pat. <input type="checkbox"/> Aft.- P.Surr. | <input type="checkbox"/> Rub <input type="checkbox"/> Wash <input type="checkbox"/> Missed | | <input type="radio"/> Bef.- Pat. <input type="radio"/> Bef. - aspt. <input type="checkbox"/> Aft. - B.f. <input type="checkbox"/> Aft. Pat. <input type="checkbox"/> Aft.- P.Surr. | <input type="checkbox"/> Rub <input type="checkbox"/> Wash <input type="checkbox"/> Missed |
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Total Moments

Total Correct Moments

Coding of Health Care Worker

Dr.M. - Doctor Male

N.M. - Nurse Male

NS - Nursing Sister

XR.M.-Xray Male

Dr. F. - Doctor - Female

N.F. - Nurse Female

NM - Nursing Matron

XR.F.- Xray Female

C.M. - Consultant Male

At.M.- Attendant Male

PT.M. - Physion Male

Other - Specify

C.F. - Consultant Female

At.F.-Attendant Female

PT.F.-Physio Female

