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# **Slides Accompanying Training Films**

To use in Education Sessions for Trainers,  
Observers and Health-Care Workers

# HAND HYGIENE SCENARIOS

## User instructions (1)

- The “Training film” is a tool included in the WHO Multimodal Hand Hygiene Improvement Strategy to help convey the concept of the “My 5 Moments for Hand Hygiene” approach to health-care workers
- These slides are designed to accompany the film and to explain the content and educational message of the different scenarios
- The concepts included in the films are the same as those presented in the “Education Sessions for Trainers, Observers and Health-Care Workers”, the “Hand Hygiene Why, How and When Brochure” and in the “Hand Hygiene Technical Reference Manual”
- The films should be shown only after all other parts of the “Education Sessions for Trainers, Observers and Health-Care Workers” have been presented

# HAND HYGIENE SCENARIOS

## User instructions (2)

- This material is meant to:
  - give visual examples of the 5 moments (indications) for hand hygiene to health-care workers and observers
  - train observers in the completion of the Observation Form
- The material can be used in a single session (at least 2 hours) or in several shorter sessions

### *Scenarios 1–5:*

- are intended to be used to train both health-care workers and observers
- each scenario is dedicated to one of the 5 moments (indications) for hand hygiene
- some scenarios exist in different versions to highlight different aspects

# HAND HYGIENE SCENARIOS

## User instructions (2)

### *Scenarios 6–9:*

- are intended to be used mainly to train observers
- should be used while completing the Observation Form
- show examples of sequences of health care during which several indications for hand hygiene occur
- missed hand hygiene actions are shown in some scenarios but a duplicate of each of them is provided showing 100% hand hygiene compliance

# HAND HYGIENE SCENARIOS

## User instructions (3)

- The section “How to do hand hygiene” includes the correct technique for handwashing and handrubbing according to the steps and time recommended by WHO
- In practice, the scenarios should be watched one by one and the observer should complete the observation form.
- Discussion should then take place and the slides with the explanation and the observation form correctly completed should be finally shown
- The menu bar allows to freely switch from one scenario to another, but please note that the current order has been constructed as a logical module with progressive learning complexity

# SCENARIO 1: Before touching a patient

## 1a – While entering the patient surroundings

### Content

- The nurse opens the door (last contact with the health-care environment), enters the room and goes towards the patient
- **While entering, she performs hand hygiene (handrubbing)**
- She moves the night table (contact with an object in patient surroundings)
- She helps the patient to bring out his arm from under the sheets (first patient contact)

### Key messages

- The nurse performs hand hygiene while approaching the patient. She handrubs before touching surfaces and objects; since these are part of the patient zone, it is not necessary to perform hand hygiene again before touching the patient. The indication remains “before touching a patient”

# SCENARIO 1: Before touching a patient

## 1b – Just before patient contact

### Content

- The nurse opens the door (last contact with care environment), enters the room and goes towards the patient.
- She moves the night table (contact with object in patient surroundings)
- **She performs hand hygiene (handrubbing)**
- She helps the patient to bring his arm from under the sheets (first patient contact)

### Key messages

- Hand hygiene is required before patient contact to protect the patient from harmful germs carried on hands from the health-care environment outside the patient's surroundings. Contact with surfaces and objects in the patient zone do not strictly imply the need for hand hygiene, whereas contact with the patient's skin does.

# SCENARIO 1: Before touching a patient

## 1c – Hand hygiene at the right moment?

### Content

- The nurse performs handrubbing in the corridor (**hand hygiene action is useless**)
- She opens the door (last contact with the environment in the health-care area) and goes into the room towards the patient
- She helps the patient to bring his arm out from under the sheets (**hand hygiene action missed**)

### Key messages

- After performing hand hygiene in the corridor (additional action not corresponding to any recommended indication), the nurse touches the door handle and thus potentially contaminates her hand with germs belonging to the health-care area. She then misses the action before touching the patient, potentially contaminating him with those germs.



# SCENARIO 1: Before touching a patient

## 1d – Repeated patient contacts

### Content

- The nurse opens the door (last contact with environment in the health-care area), enters the room and goes towards the patient
- **While entering, she performs hand hygiene (handrubbing)**
- She helps the patient to bring his arm out from under the sheets and measures his blood pressure (first patient contact)
- She moves to the other side of the bed
- She moves the night table (contact with patient surroundings)
- She takes the patient's right arm and assesses finger mobility (patient contact)
- She bends down to examine the urine content in the bag and then touches the bed while standing up (contact with patient surroundings) She pours a glass of water for the patient (contact with patient surroundings)

# SCENARIO 1: Before touching a patient 1d – Repeated patient contacts

## Key messages

- The sequence shows several contacts with the patient and his surroundings, but with no clean / aseptic procedure nor body fluid exposure risk.
- Hand hygiene is correctly performed only once, before touching the patient for the first time. There is no need for further hand hygiene actions because the nurse is always moving within the patient zone.
- At the end of the sequence, she handrubs but the action should not be recorded as the observer has no idea whether the nurse actually left the patient and his zone.

## Observation Form: scenario 1a, 1b, 1d

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	1
<b>Service:</b>	Surgery	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Surgery B	<b>Start/End time:</b> (hh:mm)	10 :00 / 10 : 20	<b>Page N°:</b>	
<b>Department:</b>	Surgical	<b>Session duration:</b> (mm)	20	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat		
Code	1.1	Code		Code		Code		
N°	1	N°		N°		N°		
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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## Observation Form: scenario 1c

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	1
<b>Service:</b>	Surgery	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Surgery B	<b>Start/End time:</b> (hh:mm)	10 :00 / 10 : 20	<b>Page N°:</b>	
<b>Department:</b>	Surgical	<b>Session duration:</b> (mm)	20	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat					
Code	1.1	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="checkbox"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 2: Before clean/aseptic procedure

## 2a – Clean/aseptic procedure within care sequence

### Content

- The nurse enters the room and places the instrument tray with the items ready for injection on the night table (last contact with the environment in the health-care area)
- **She performs hand hygiene by handrubbing (indication: before touching a patient)**
- She helps the patient to bring his arm out from under the sheets (first patient contact)
- She moves the night table (contact with patient surroundings)
- She pours antiseptic onto the swabs

- **She performs hand hygiene by handrubbing (indication: before clean/aseptic procedure)**
- She opens the tap on the peripheral venous catheter, gives the injection and closes the tap again (aseptic task)

### Key messages

- The nurse has a first direct contact with the patient (she performs hand hygiene as indicated) and the patient surroundings; she then repeats the hand hygiene action before the clean/aseptic procedure to protect the patient from his own germs.

## Observation Form: scenario 2a

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	2
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	10 : 20 / 10 : 35	Page N°:	
Department:	Surgical	Session duration: (mm)	15	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat					
Code	1.1	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input checked="" type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 2: Before clean/aseptic procedure

## 2b – Clean/aseptic procedure only

### Content

- The nurse enters the room and places the instrument tray with the items ready for injection on the night table (last contact with the environment in the health-care area)
- The patient is lying in bed asleep with a peripheral venous catheter on his arm directly accessible to the nurse
- She pours the antiseptic onto the swabs
- **She performs hand hygiene by handrubbing (indication: before clean/aseptic procedure)**
- She opens the tap on the peripheral venous catheter, gives the injection and closes the tap again (clean/aseptic procedure without direct patient contact)

### Key messages

- The clean/aseptic procedure is the very first and unique indication in this scenario. The nurse has no direct contact with the patient.

## Observation Form: scenario 2b

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	2
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	10 : 20 / 10 : 35	Page N°:	
Department:	Surgical	Session duration: (mm)	15	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat	
Code	1.1	Code		Code		Code	
N°	1	N°		N°		N°	

Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input type="checkbox"/> bef-pat. <input checked="" type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 3: After body fluid exposure risk

## 3a – After body fluid exposure risk within a care sequence (missed)

### Content

- The nurse is drawing a blood sample (blood exposure risk)
- When she finishes, she removes the tourniquet, puts a plaster on the puncture site and puts the equipment together on the tray (continuing blood exposure risk)
- She takes off her gloves and throws them into the bin (continuing blood exposure risk)
- Hand hygiene action missed (indication: after body fluid exposure risk)
- She takes the patient's pulse (next patient contact)

### Key messages

- Hand hygiene must be performed immediately after body fluid exposure risk, before touching either the patient again or any surface and object within the patient's surroundings or care environment, to prevent potential dissemination of germs.
- Any care activity implying contact with body fluids constitutes a risk because exposure may not be visible but may have happened.

## Observation Form: scenario 3a

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	3
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	10 : 35 / 10 : 55	Page N°:	
Department:	Surgical	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat					
Code	1.1	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input checked="" type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 3: After body fluid exposure risk

## 3b – After body fluid exposure risk within a care sequence (100% compliance)

### Content

- The nurse is drawing a blood sample (blood exposure risk)
- When she finishes, she removes the tourniquet, puts a plaster on the puncture site and puts the equipment together on the tray (continuing blood exposure risk)
- She takes off her gloves and throws them into the bin (continuing blood exposure risk)
- **She performs hand hygiene (handrubbing)**
- She takes the patient's pulse (next patient contact)

### Key messages

- The nurse performs correct and timely handrubbing immediately after body fluid exposure risk; her hands are not visibly soiled and she does not need to handwash

## Observation Form: scenario 3b

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	3
<b>Service:</b>	Surgery	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Surgery B	<b>Start/End time:</b> (hh:mm)	10 : 35 / 10 : 55	<b>Page N°:</b>	
<b>Department:</b>	Surgical	<b>Session duration:</b> (mm)	20	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

<b>Prof.cat</b>	Nurse/Midwife	<b>Prof.cat</b>		<b>Prof.cat</b>		<b>Prof.cat</b>					
<b>Code</b>	1.1	<b>Code</b>		<b>Code</b>		<b>Code</b>					
<b>N°</b>	1	<b>N°</b>		<b>N°</b>		<b>N°</b>					
<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>	<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>	<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>	<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>
1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input checked="" type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 3: After body fluid exposure risk

## 3c – After body fluid exposure risk (handwashing)

### Content

- The nurse is drawing a blood sample (blood exposure risk)
  - When she finishes, she removes the tourniquet and puts a plaster on the puncture site (continuing blood exposure risk)
  - She gathers up the equipment, goes to the washbasin and throws the waste items into the bin (continuing blood exposure risk)
  - She removes her gloves and throws them into the bin (continuing blood exposure risk)
  - **She washes her hands with soap and water (after body fluid risk exposure and after touching a patient)**
- ### Key messages
- The nurse performs correct and timely hand hygiene after body fluid exposure risk and after the last patient contact (two indications which correspond to one single opportunity that requires one single hand hygiene action).
  - She performs hand hygiene by handwashing. Handwashing with soap and water is recommended when hands are visibly soiled.

## Observation Form: scenario 3c

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	4
<b>Service:</b>	Surgery	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Surgery B	<b>Start/End time:</b> (hh:mm)	10 : 55 / 11 : 15	<b>Page N°:</b>	
<b>Department:</b>	Surgical	<b>Session duration:</b> (mm)	20	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat					
Code	1.1	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input checked="" type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input checked="" type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 4: After touching a patient

## Content

- The nurse takes the patient's blood pressure (last patient contact)
- She leaves the patient and goes to a trolley with the patient chart (no contact)
- **She performs hand hygiene (handrubbing)**
- She writes in the file on the trolley and then leaves the room with the trolley (first contact with the environment in the health-care area)

## Key messages

- The trolley is not part of the patient surroundings, therefore hand hygiene is performed after patient contact, before touching the chart and the trolley.

## Observation Form: scenario 4

Facility:	AIC Kijabe Hospital	Period Number <sup>*</sup> :	1	Session Number <sup>*</sup> :	4
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	10 : 55 / 11 : 15	Page N°:	
Department:	Surgical	Session duration: (mm)	20	City <sup>**</sup> :	Kijabe
Country <sup>**</sup> :	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat		Prof.cat					
Code	1.1	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 5: After touching patient surroundings

## 5a – Patient surroundings

### Content

- The nurse auxiliary enters the room with a trolley
- She tidies up the night table (picks up empty bottle and glass) and cleans the table top
- She places a bottle of water and a clean glass on the table (patient surroundings)
- **She performs hand hygiene (handrubbing)**
- She leaves the room with the trolley

### Key messages

- There is no contact with the patient, but hand hygiene must still be performed after contact with objects and surfaces in the patient's surroundings.

# Observation Form: scenario 5a

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	5
<b>Service:</b>	Surgery	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Surgery B	<b>Start/End time:</b> (hh:mm)	10 : 15 / 11 : 30	<b>Page N°:</b>	
<b>Department:</b>	Surgical	<b>Session duration:</b> (mm)	15	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

<b>Prof.cat</b>	Auxiliary	<b>Prof.cat</b>		<b>Prof.cat</b>		<b>Prof.cat</b>					
<b>Code</b>	2	<b>Code</b>		<b>Code</b>		<b>Code</b>					
<b>N°</b>	1	<b>N°</b>		<b>N°</b>		<b>N°</b>					
<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>	<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>	<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>	<b>Opp.</b>	<b>Indication</b>	<b>HH Action</b>
1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input checked="" type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves

# SCENARIO 5: After touching patient surroundings

## 5b – Not patient surroundings!

### Content

- The nurse auxiliary enters the room with a trolley
- The patient asks for a glass of water and the nurse auxiliary pours water into the glass (patient surroundings)
- **She performs hand hygiene (handrubbing; indication: before touching a patient)**
- She helps the patient to sit up in bed (first patient contact)
- She gives the glass to the patient who drinks some water and then hands the glass back
- The nurse auxiliary tidies up the night table (picks up empty bottle and glass)
- She cleans the table top and puts a bottle and a clean glass on the table
- **She performs hand hygiene (handrubbing; indication: after touching a patient)**
- She leaves the room with trolley

# SCENARIO 5: After touching patient surroundings

## 5b – Not patient surroundings!

### Key messages

- The scenario is similar to 5a. However, even if the nurse auxiliary has no initial intention to touch the patient, she must perform hand hygiene when the situation implies a direct contact.
- Since the nurse auxiliary had a contact with the patient, the next indication is no longer after touching patient surroundings, but after touching the patient.

## Observation Form: scenario 5b

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	5
<b>Service:</b>	Surgery	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Surgery B	<b>Start/End time:</b> (hh:mm)	11 : 15 / 11 : 30	<b>Page N°:</b>	
<b>Department:</b>	Surgical	<b>Session duration:</b> (mm)	15	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

Prof.cat	Auxiliary	Prof.cat		Prof.cat		Prof.cat					
Code	2	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 6: Care sequence break

## 6a – Care sequence break (missed)

### Content

- The doctor enters the room and goes towards the patient
- **While entering, she performs hand hygiene (handrubbing; indication: before touching a patient)**
- She shakes the patient's hand and examines his knee
- The pager beeps, the doctor excuses herself and leaves the room to answer the phone in the corridor (**hand hygiene action missed; indication: after touching a patient**)
- The doctor comes back through the open door
- She carries on with the physical examination (**hand hygiene action missed; indication: before touching a patient**)

# SCENARIO 6: Care sequence break

## 6a – Care sequence break (missed)

### Key messages

- A care sequence break occurs (the doctor answering the phone in the corridor, outside the patient's surroundings). Therefore, she should perform hand hygiene after leaving the patient (to prevent transmission of germs from the patient to the health-care environment) and before touching the patient again (to prevent transmission of germs from the environment in the health-care area to the patient).
- These care breaks should be avoided as much as possible.

# Observation Form: scenario 6a

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	6
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	11 : 35 / 11 : 55	Page N°:	
Department:	Surgical	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Medical doctor	Prof.cat		Prof.cat		Prof.cat					
Code	3.2	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="radio"/> missed ○ gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves
3	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="radio"/> missed ○ gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed ○ gloves



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# SCENARIO 6: Care sequence break

## 6b – Care sequence break (100% compliance)

### Content

- The doctor enters the room and goes towards the patient
  - **While entering she performs hand hygiene by handrubbing (indication: before touching a patient)**
  - She shakes the patient's hand and examines his knee
  - The pager beeps, the doctor excuses herself to answer the phone
  - She leaves the room **while performing hand hygiene by handrubbing (indication: after touching a patient)**
  - The doctor comes back through the open door **while performing hand hygiene by handrubbing (indication: before touching a patient)**
  - She carries on with the physical examination
- ### Key messages
- Same sequence as 6a, but with correctly performed hand hygiene (100% compliance)

## Observation Form: scenario 6b

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	6
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	11 : 35 / 11 : 55	Page N°:	
Department:	Surgical	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Medical doctor	Prof.cat		Prof.cat		Prof.cat					
Code	3.2	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input checked="" type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef.pat. <input type="checkbox"/> bef.asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft.pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 7: Between patients

## 7a – Between patients (missed)

### Content

- The doctor examines patient X
- When finished, he leaves the patient and shakes his hand
- **Hand hygiene action missed (indications: after touching a patient and before touching a patient)**
- He approaches patient Y and greets her by shaking her hand

### Key messages

- Two indications occur (after touching a patient and before touching a patient) and correspond to one single opportunity that requires one single hand hygiene action.

## Observation Form: scenario 7a

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	7
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	12 : 05 / 12 : 25	Page N°:	
Department:	Surgical	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Medical doctor	Prof.cat		Prof.cat		Prof.cat	
Code	3.2	Code		Code		Code	
N°	1	N°		N°		N°	
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="checkbox"/> missed <input type="checkbox"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="checkbox"/> missed <input type="checkbox"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="checkbox"/> missed <input type="checkbox"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="checkbox"/> missed <input type="checkbox"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="checkbox"/> missed <input type="checkbox"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="checkbox"/> missed <input type="checkbox"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.



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# SCENARIO 7: Between patients

## 7b – Between patients (100% compliance)

### Content

- The doctor examines patient X
- When finished, he leaves the patient and shakes his hand
- **He performs hand hygiene by handrubbing (indications: after touching a patient and before touching a patient)**
- He approaches patient Y and greets her by shaking her hand

### Key messages

- Same sequence as 7a, but with properly performed hand hygiene (100% compliance).

# Observation Form: scenario 7b

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	7
Service:	Surgery	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Surgery B	Start/End time: (hh:mm)	12 : 05 / 12 : 25	Page N°:	
Department:	Surgical	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Medical doctor	Prof.cat		Prof.cat		Prof.cat					
Code	3.2	Code		Code		Code					
N°	1	N°		N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves

# SCENARIO 8: Physical examination

## 8a – Physical examination (missed)

### Content

- The doctor is beside the patient and listens to his heartbeat
- The nurse comes into the room with a trolley
- **She performs hand hygiene by handrubbing (indication: “before touching a patient”)**
- The nurse helps the doctor to prop the patient up in bed
- The doctor examines the patient's lungs
- The doctor asks the nurse to hand her the examination equipment
- **Hand hygiene action missed (indication: “before clean/aseptic procedure”)**
- She puts on gloves to examine the patient's mouth using a spatula and a pen torch
- She helps the patient to open his mouth and examines the mucous membrane (contact with mucous membrane)

# SCENARIO 8: Physical examination

## 8a – Physical examination (missed)

### Content

- Some saliva drips and the doctor wipes away the saliva (body fluid exposure)
- The nurse performs hand hygiene by handrubbing (**additional hand hygiene action, unnecessary**)
- The doctor completes her examination
- She throws the wipes and spatula into a bag and takes off her gloves and throws them into the same bag
- **Hand hygiene action missed (indication: “after body fluid exposure risk”)**
- The nurse lowers the head of the bed
- The doctor palpates the patient's abdomen
- **The doctor performs hand hygiene by handrubbing (indication: after touching a patient)**
- She leaves the patient
- The nurse tidies up the patient's sheets and removes the instrument tray
- She puts it down by the washbasin then leaves room
- **Hand hygiene action missed (indication: “after touching a patient”)**

Key message: the care procedure shown in this scenario takes place in a single room; thus when leaving, both health-care workers are moving from the patient zone to the health-care area.



## Observation Form: scenario 8a

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	8
Service:	Neurology	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Neurology A	Start/End time: (hh:mm)	12 : 25 / 12 : 45	Page N°:	
Department:	Medical	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Nurse/Midwife	Prof.cat	Medical doctor	Prof.cat		Prof.cat					
Code	1.1	Code	3.2	Code		Code					
N°	1	N°	1	N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input checked="" type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input checked="" type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input checked="" type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves



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# SCENARIO 8: Physical examination

## 8b – Physical examination (100% compliance)

### Content

- The doctor is beside the patient and listens to his heartbeat
- The nurse comes into the room with a trolley
- **She performs hand hygiene by handrubbing (indication: before touching a patient)**
- The nurse helps the doctor to prop the patient up in bed
- The doctor examines the patient's lungs
- The doctor asks the nurse to hand her the examination equipment
- **She performs hand hygiene by handrubbing (indication: before clean/aseptic procedure)**
- She puts on gloves to examine the patient's mouth using a spatula and a pen torch
- She helps the patient to open his mouth and examines the mucous membrane (contact with mucous membrane)
- Some saliva drips and the doctor wipes away the saliva (body fluid exposure)
- She completes her examination
- She throws the wipes and spatula into a bag and takes off her gloves and throws them into the same bag
- **She performs hand hygiene by handrubbing (indication: after body fluid exposure risk)**

# SCENARIO 8: Physical examination

## 8b – Physical examination (100% compliance)

### Content

- The nurse lowers the head of the bed
- The doctor palpates the patient's abdomen
- **The doctor performs hand hygiene by handrubbing (indication: after touching a patient)**
- She leaves the patient
- The nurse tidies up the patient's sheets and removes the instrument tray
- She puts it down near the washbasin
- **She performs hand hygiene by handrubbing (indication: after touching a patient)**
- She leaves the room

### Key messages

- Same sequence as 8a, but with correctly performed hand hygiene (100% compliance)

Key message: the care procedure shown in this scenario takes place in a single-room; thus when leaving both health-care workers are moving from the patient zone to the health-care area.

## Observation Form: scenario 8b

<b>Facility:</b>	AIC Kijabe Hospital	<b>Period Number*:</b>	1	<b>Session Number*:</b>	8
<b>Service:</b>	Neurology	<b>Date:</b> (dd/mm/yy)	05 / 05 / 09	<b>Observer:</b> (initials)	LB
<b>Ward:</b>	Neurology A	<b>Start/End time:</b> (hh:mm)	12 : 25 / 12 : 45	<b>Page N°:</b>	
<b>Department:</b>	Medical	<b>Session duration:</b> (mm)	20	<b>City**:</b>	Kijabe
<b>Country**:</b>	Kenya				

Prof.cat Nurse/Midwife			Prof.cat Medical doctor			Prof.cat			Prof.cat		
Code 1.1			Code 3.2			Code			Code		
N° 1			N° 1			N°			N°		
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input checked="" type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input checked="" type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input checked="" type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves

# SCENARIO 9: Arterial puncture

## Content

- The nurse adjusts the patient's oxygen flow, places the patient in a semi-recumbent position, and calls the doctor
- The doctor comes into the room through an open door, assesses the patient's condition and decides to draw an arterial sample
- She explains the procedure to the patient while feeling for the radial artery on the right arm
- The nurse then places a protective cover under the right wrist
- **Both the nurse and the doctor perform hand hygiene by handrubbing (indication: before clean/aseptic procedure)**
- The nurse opens the pack of sterile swabs and pours the antiseptic solution
- She opens the pack containing the syringe
- The doctor disinfects the puncture site; when finished, she puts on gloves
- She takes the sample and then places a swab on the puncture site
- She asks the patient to press on the artery
- She puts the needle in the sharp box, places a cover on the syringe, and hands it to the nurse
- The nurse leaves the room but cannot be observed
- The doctor applies a compression dressing

# SCENARIO 9: Arterial puncture

## Content

- She takes used material and tray and goes to the sink where she throws away some material in the bin
- She takes off her gloves
- **She performs hand hygiene by handwashing (indication: after body fluid exposure risk and after touching a patient)**
- The doctor enters the room through the open door and touches the patient without performing hand hygiene. Since it cannot be observed whether she had performed hand hygiene before entering the room, a missed hand hygiene action should not be recorded.
- Subsequently, she correctly performs hand hygiene before (clean/aseptic procedure) and after (body fluid exposure risk and touching the patient) the arterial puncture.
- The nurse leaves the room while carrying a tray belonging to the patient's surroundings. No indication can be observed, thus no action should be recorded.

## Key messages

- After touching the patient, the nurse leaves the patient room to call the doctor. But whether or not an indication for a hand hygiene action occurs cannot be observed.

## Observation Form: scenario 9

Facility:	AIC Kijabe Hospital	Period Number*:	1	Session Number*:	9
Service:	Obstetrics	Date: (dd/mm/yy)	05 / 05 / 09	Observer: (initials)	LB
Ward:	Obs A	Start/End time: (hh:mm)	12 : 45 / 13 : 05	Page N°:	
Department:	Mixt	Session duration: (mm)	20	City**:	Kijabe
Country**:	Kenya				

Prof.cat	Medical doctor	Prof.cat	Nurse/Midwife	Prof.cat		Prof.cat					
Code	3.2	Code	1.2	Code		Code					
N°	1	N°	1	N°		N°					
Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action	Opp.	Indication	HH Action
1	<input type="checkbox"/> bef-pat. <input checked="" type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input checked="" type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input checked="" type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	1	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input checked="" type="checkbox"/> aft-b.f. <input checked="" type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input checked="" type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	2	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves
3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves	3	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-b.f. <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft.p.surr.	<input type="checkbox"/> HR <input type="checkbox"/> HW <input type="radio"/> missed <input type="radio"/> gloves