

Registration of Device and Non Devices Associated Infections In ICU on HESN

Test Scenarios

Scenario 1 Admission to Critical Care Units

Summary

Mona is a 50 years old female who was admitted on the 10th of February to the ICU Medical Cardiac Unit in Hospital X following a suspected MI for monitoring. No device inserted upon admission

Aim

Demonstrate how to search and create client on HESN and how to register admission

Scenario 1 Admission to Critical Care Units

Steps-:

- Search for client
- Create client on HESN.
- Create encounter - Encounter Type Admission to Hospital and Encounter reason Admission to Hospital
- Create encounter - Encounter Type Admission/Transfer to Units and Encounter Reason Name of the ICU units patient was admitted to.

Scenario 2 Change of unit and discharge from Critical care Unit

Summary

The next day (February 11st), Mona was transferred to the ICU Burn Unit because her current unit is expecting admissions.

Aim

Demonstrate how to document movement of client within the hospital

Scenario 2 Change of unit and discharge from Critical care Unit

Steps-:

- Search for client and Place client in context
- Create new encounter, third one : Encounter Date February 11th ,Encounter Type : Admission/Transfer to Units
- Encounter Reason : Name of the ICU Burn Unit
-)every time a client change unit, a new encounter is created with reason name of the admitting unit(

Scenario 3 Non Device Associated Infection in ICU and Hospital Discharge

Summary

On February 13th, Mona has fever > 38.5 o C, Chills, and hypotension. Blood culture taken and results show *Staph. aureus*. She was discharged home on 17th directly from ICU.

Aim

Demonstrate how to document Non Device associated Infection occurring in ICU

Scenario 3 Non Device Associated Infection in ICU and Hospital Discharge

Steps-:

- Search for client and Place client in context
- Create new encounter : number 4: Non Device Associated Event and Encounter Reason BSI
- Fill BSI event form + fill organism section
- On day of discharge, Create new Encounter : No 4 End of Surveillance
- Reason: Discharge from Hospital

Scenario 4 Insertion of Central Line and initiation of Bundle

Summary

Ahmad is a 65 years old male who was admitted on 14th February in a surgical ward unit in Hospital X following partial Gastrectomy. A central Line and a Urinary Catheter were inserted.

On the 16th of February Ahmad was transferred to the ICU Medical Surgical Unit

Aim

Demonstrate how to document insertion information and how to start a bundle for central line and urinary catheter

Scenario 4 Insertion of Central Line and initiation of Bundle

Steps-:

- Create client on HESN and place in context
- Create new encounter with Encounter Type : Admission to Hospital and Encounter reason : Admission to Hospital (date February 14th)
- Create new encounter with Encounter Type: Admission /Transfer to Units and Encounter reason A-04-ICU-Medical/Surgical (date February 16th)
- Create new encounter with Encounter Type Central Line-Bundle-Event and
 - Fill Insertion **date and location (Outside ICU) only**
 - Central Line Bundle Form (date February 16th)
- Create new encounter with Encounter Type Urinary Catheter-Bundle-Event and
 - Fill Insertion **date and location (Outside ICU) only**
 - Urinary Catheter Bundle Form (date February 16th)

Scenario 5

Documentation of Device Associated Infection

Summary

On the 17th ,Ahmad central line was removed and he was transferred to general ward.

On 18th , Ahmad started having fever and chills and 2 blood cultures were taken on 18th and 19th.

Staph. epidermidis was isolated in both cultures.

Aim

Demonstrate how to document Device Associated Infection

Scenario 5 Documentation of Device Associated Infection

Steps-:

- Place client in context
- Perform Daily bundle on the 17th and Update removal information
- Create new encounter with Encounter Type: Admission /Transfer to Units and Encounter reason name of the Non ICU Unit (General Ward) he was transferred to (date of encounter 17th(
- Daily bundle monitoring for 2 CD days (17th and 18th) continues , date of device removal being CD 1, focus only on BSI signs, symptoms and positive blood culture.
- Fill the CLABSI event form (18th) as signs and symptoms are there.
- After 2 CD days (on the 19th) , surveillance is stopped.
- Continue daily bundle review for Foley's on 17th and 18th . Stop on 19th.
- Create new Encounter: End of Surveillance and
- Reason: Moved to Non Surveillance Unit +2CD(date 17th and 18th(

Scenario 6

Documentation of VAP

Summary

Fahad was admitted directly to critical care unit on 15th of February with road traffic accident and was connected to a ventilator on the 16th of February. On the 18th, he develops Pneumonia confirmed by X-ray.

Aim

Demonstrate how to document incidence of infection

Scenario 6 Documentation of VAP

Steps-:

- Create client and place in context
- Create new encounter with Encounter Type admission to Hospital and Encounter reason Admission to Hospital (date February 15th)
- Create new encounter with Encounter Type admission /Transfer to Units and Encounter reason A05-ICU-Neurological (date February 15th)
- Create Ventilator-Bundle-Event encounter (date February 16th) and encounter reason is intubation
- Fill VAP insertion and Bundle Form associated to the encounter
- Perform Daily bundle review on the 16th, 17th and 18th of February (once a week is compulsory)
- Fill VAP event form on the 18th

Scenario 7 Insertion of multiple devices of the same type

Summary

Nasser is 10 years old who was transferred from another hospital on the 10th of February to Critical Care in hospital X, after sustaining Head Trauma. A central line and a Urinary Catheter were inserted and he was connected to a ventilator in the previous hospital. On the 12th, a second central line was inserted and the first one removed due to blockage.

Aim

Demonstrate how to document a second bundle

Scenario 7 Insertion of multiple devices of the same type

Steps-:

- Create client on HESN and place in context
- Create the below encounters (date February 10th)
- Encounter Type admission to Hospital and Encounter reason Transfer from another Hospital
- Encounter Type admission /Transfer to Units and Encounter reason A09-ICU-Pediatric
- Encounter Type Central Line –Bundle –Event and Encounter Reason Central Line Insertion (UDF: Insertion, **date and location only** and Central Line Bundle Form) **for the 1ST central line.**
- Continue daily monitoring on the new Bundle form

Scenario 7 Insertion of multiple devices of the same type

- Encounter Type Urinary Catheter-Bundle-Event and Encounter Reason Urinary Catheter Insertion (UDF: Insertion, **date and location only**, and Urinary Catheter Bundle Form(
- Encounter Type VAP-Bundle Event and Encounter Reason Ventilator Insertion (UDF: **date and location only**, Ventilator Bundle Form(
- On the 12th : Update the Bundle form of the first central line with removal information
- **On 12th, Open new UDF for the 2nd central line and fill insertion as well as daily bundle review.**

Scenario 8

Monitoring of client with Device following discharge from ICU

Summary

On the 25th of February, Nasser is considered fit for discharge from ICU and is transferred to General Paediatric Unit with the central line in situ.

Aim

Demonstrate how to follow up after ICU Discharge with a device

Scenario 8 Monitoring of client with Device following discharge from ICU

Steps-:

- Create new encounter with Encounter Type admission /Transfer to Units and Encounter reason name of the Non ICU Paediatric Unit he was transferred to (date of encounter February (25
- Continue daily monitoring on the new Bundle form for 2CD,25th and 26th.
- After 2 CD days, create new encounter with Encounter Type End of Surveillance and Encounter Reason Moved to Non Surveillance Unit +2CD (even though Nasser was physically still in hospital(

Scenario 9
Client
readmitted to
ICU
(Surveillance
Unit) within
Same
Admission

Summary

On the 28th of February, while still in Paediatrics, Nasser's neurological state deteriorates and he is readmitted to ICU.

Aim

Demonstrate how to resume surveillance after readmission to ICU within the same hospitalization episode

Scenario 9 Client readmitted to ICU (Surveillance Unit) within Same Admission

Steps-:

- Create new encounter with Encounter Type admission /Transfer to Units and Encounter Reason name of the ICU Unit he was transferred to (date of encounter February 28th(
- Create new encounter with Encounter Type Restarting Surveillance for Patient Within Same Admission and Encounter Reason Transferred Back to Surveillance Unit (date of encounter February 28th(
- ON 28th Encounter Type Central Line –Bundle –Event and Encounter Reason Central Line Insertion (UDF: Insertion, **date and location only** and Central Line Bundle Form(
- Perform Daily Monitoring on Central Line bundle form starting from February 28th

Scenario 10

New Born Client

Summary

On 2nd March, baby of Sarah was delivered by C-section and rushed to NICU because of fatal distress. A central line was inserted immediately and the baby was ventilated.

Aim

Demonstrate how to register and follow up a new born in NICU

Scenario 10 New Born Client

Steps-:

- Create New born on HESN and place in context. Use additional ID (Mother ID or Father ID)
- Create new encounter with Encounter Type admission to Hospital and Encounter reason Admission to Hospital (date 2nd March)
- Create new encounter with Encounter Type admission /Transfer to Units and Encounter reason A07-ICUNeonatal Intensive Care (date 2nd March)
- Create new encounter with Encounter Type Central Line-Bundle-Event and Fill Insertion and Central Line Bundle Form (date 2nd March)
- Create new encounter with Encounter Type Ventilator-Bundle-Event and fill Ventilator Bundle Form (date 2nd March)
- Perform Daily Monitoring on both bundle forms (central line and ventilator) starting from the 2nd March

Scenario 11

Transfer Out of NICU with a Central Line

Summary

Ventilator was removed on 9th March. Baby of Sarah remained for two weeks in NICU. During that time (20th March), he develops a CLABSI event confirmed by blood culture. On 23rd March, he is transferred out of NICU with the central line in situ.

Aim

Demonstrate how to follow up after ICU Discharge with a device

Scenario 11 Cont'd Transfer Out of NICU with a Central Line

Steps-:

- Update the Ventilator Bundle form on the 9th of March (ventilator removed)
- Update the Central Line bundle form when signs and symptoms appeared
- Fill out the CLABSI event form (event date 20th March)
- Create new encounter with Encounter Type admission /Transfer to Units and Encounter reason name of the Non ICU Paediatric Unit he was transferred to (date of encounter 23rd March)
- Continue daily monitoring on the Central Line Bundle form for 2 calendar days' 23rd and 24th March
- After 2 days, create new encounter with Encounter Type End of Surveillance and Encounter Reason Moved to Non Surveillance Unit +2CD (date March 25th)

Scenario 12

Readmission to Surveillance Unit

Summary

Baby of Sarah remains in the hospital for one month. He then undergoes surgery to correct a cardiac defect and is transferred to A08-ICU-Pediatric Cardiothoracic immediately post operatively. The central line that was inserted at birth is still in situ

Aim

Demonstrate how to resume surveillance within the same admission

Scenario 12 Readmission to Surveillance Unit

Steps-:

- Create new encounter with Encounter Type admission /Transfer to Units and Encounter reason A08-ICU-Pediatric Cardiothoracic (date 23rd April)
- Create new encounter with Encounter Type Restarting Surveillance for Patient within the same admission (date 23rd April)
- Create new encounter with Encounter Type Central Line-Bundle-Event and Fill Insertion and Central Line Bundle Form attached to this new encounter (date 23rd April)
- Perform Daily Monitoring on Central Line bundle form starting from 23rd April

Scenario 13 Readmission to Surveillance Unit

Summary

MUHAIB is a 21 years old male who was admitted on the 15th of March to ICU and 3 devices were inserted (Central Line, Ventilator inside ICU, and Urinary Catheter outside ICU). The ventilator was disconnected on the 20th of March. Patient was transferred to non-ICU unit with the central line and urinary catheter on the 29th of March.

Scenario 13

Readmission to Surveillance Unit

Steps-:

- Encounter: Admission to Hospital, Reason: Admission to Hospital. 15th of March
- Encounter: Admission/Transfer to Units, Reason: one of the ICU units. 15th of March.
- 3 Encounters for the devices, Insertion date: 15th of March.
- Encounter: Admission/Transfer to Units, Reason: one of non-ICU units. 29th of March.
- Encounter: EOS, Reason: Moved to Non-Surveillance Unit + 2CD. 31st of March.

Scenario 13

Readmission to Surveillance Unit

Summary

MUHAIB was readmitted to ICU on the 1st of April and transferred out the same day.

Scenario 13 Readmission to Surveillance Unit

Steps-:

- Encounter: Admission/Transfer to Units, Reason: one of the ICU units. 1st of April.
- Encounter: Restarting the Surveillance, Reason: Pt Transferred back to Surveillance Unit. 1st of April
- Encounter: Admission/Transfer to Units, Reason: one of the non-ICU units. 1st of April.
- Encounter: EOS, Reason: Moved to Non-Surveillance Unit+ 2CD. 3rd of April
- Encounter: Admission/Transfer to Units, Reason: one of the ICU units. 1st of April.
- Encounter: Restarting the Surveillance, Reason: Pt Transferred back to Surveillance Unit. 1st of April
- Encounter: Admission/Transfer to Units, Reason: one of the non-ICU units. 1st of April.
- Encounter: EOS, Reason: Moved to Non-Surveillance Unit + 2CD. 3rd of April

Scenario 13 Readmission to Surveillance Unit

Summary

MUHAIB's condition deteriorated and he was transferred to ICU on the 18th of April where he was intubated and a central line and urinary catheter were inserted. MUHAIB died on the 24th of April.

Scenario 13 Readmission to Surveillance Unit

Steps-:

- Encounter: Admission/Transfer to Units, Reason: one of the ICU units. 18th of April.
- Encounter: Restarting the Surveillance, Reason: Pt Transferred back to Surveillance Unit. 18th of April.
- 3 Encounters for the devices, note all devices inserted inside ICU. 18th of April.
- Encounter: EOS, Reason: Death. 24th of April
- Encounter: Admission/Transfer to Units, Reason: one of the ICU units. 18th of April.
- Encounter: Restarting the Surveillance, Reason: Pt Transferred back to Surveillance Unit. 18th of April.
- 3 Encounters for the devices, note all devices inserted inside ICU. 18th of April.
- Encounter: EOS, Reason: Death. 24th of April

Scenario 14: Re-admission to ICU with the same device

Summary

Patient was admitted to hospital on 1st of July and he was directly connected to a ventilator in ER. Patient was transferred to A01-ICU-Burn unit on 7th of July then on 10th of July he was transferred to Non-ICU unit with the same ventilator. On 20th of July patient was re-admitted to A02-ICU-Medical with the same ventilator

Scenario 14: Re-admission to ICU with the same device

Steps:

- Search / create client.
- create encounter (admission to hospital) – Encounter date: July 1st
- create encounter (admission/transfer to units) and choose the name of the ICU unit – Encounter date: July 7th
 - create encounter-ventilator. And fill out the UDF form. You have to enter the actual date of device insertion (July 1st) and fill first bundle review (date should be July 7th). *Note: for the question *where is Ventilator inserted? The answer should be Non-admitting unit (e.g. ER, OR.)*
 - create encounter (admission/transfer to units) and choose the name of the Non-ICU unit – Encounter date: July 10th
 - Follow up the patient for 2CD after transfer from ICU (10th and 11th of July)
 - ◆ Create encounter (EOS End Of Surveillance) and the reason will be (moved to non-Surveillance Unit+2CD.)

Scenario 14: Re-admission to ICU with the same device

Steps – Continued

- Create encounter (restarting surveillance for Pt. within same admission) – Encounter date: July 20th.
- create encounter (admission/transfer to units) and choose the name of the ICU unit - Encounter date: July 20th
- Create encounter-ventilator. And fill out the UDF form. You have to enter the actual date of device insertion (July 1st) and fill first bundle review (date should be July 20th). *Note: for the question *where is Ventilator inserted? The answer should be Non-admitting unit (e.g. ER, OR.)*