

Updated VUAH PCA Order Set and Documentation Requirements Every 4 Hours

- **Situation:**

Documenting Demands and Delivered will now be required for all patients with an Active PCA Order. The PCA Order Sets have been updated to reflect this change and to streamline the Nursing Orders associated with PCA Orders.

- **Background:**

Current practice for documenting PCA Demands and Delivers has varied throughout the organization over the years.

Assessment:

Documenting Demands and Delivered allows for providers to proactively review medical records for documentation and make changes to pain orders. Standardizing the documentation will help facilitate improved pain management for patients with PCAs.

- **Recommendation**

The VUAH PCA Order sets have been modified to specifically list the q4h documentation requirements in the order. This change should help increase documentation compliance and decrease discrepancies in documentation. In addition, the formatting of all of the PCA related Nursing Orders have been streamlined and re-formatted for ease of use. The image below displays the updated order set that will go into effect on: 3/15/2023. See the attached slides for step-by-step instructions for accessing Demand vs. Deliver Documentation on the BD Alaris pump to document in eSTAR.

VUAH PCA Nursing Orders Effective 3/15/23

fentaNYL PCA ✔ Accept

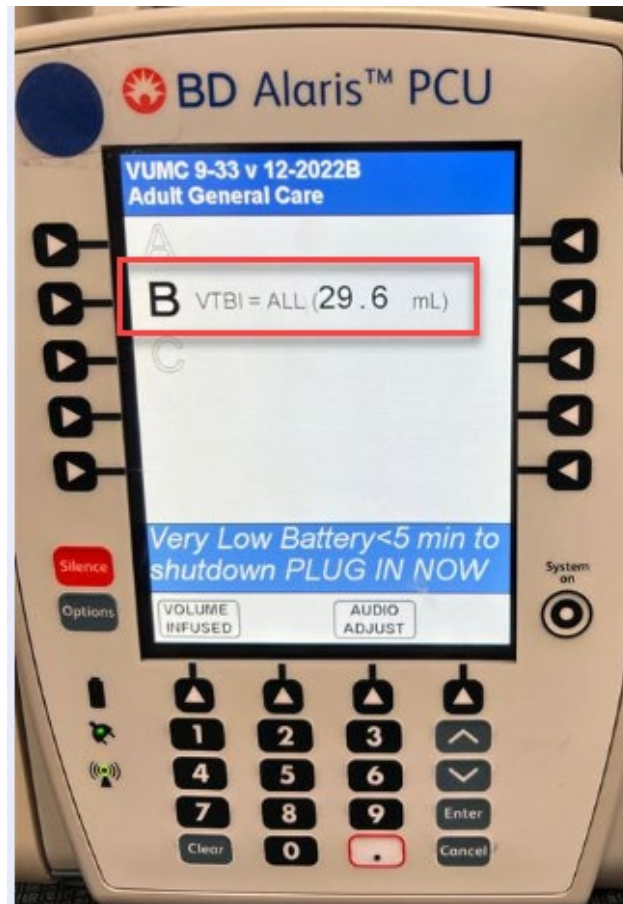
- Nursing Orders for PCA
 - PCA : Notify Provider
 - PCA : Notify Provider
PCA : Notify Provider Immediately: for inadequate analgesia, side effects (nausea, pruritis), unresponsive to ordered treatment, respiratory rate less than 8, SpO2 less than 90, sedation of RASS -2 or lower, increased sedation, altered mental status
Routine, Until discontinued, Starting today at 1426, Until Specified
 - PCA : Stop PCA and notify provider
 - PCA : Stop PCA and Notify Provider
Care Instructions: Stop PCA and Notify Provider
Stop PCA and notify provider: if excessive somnolence, patient difficult to arouse, rapid response called, CODE STAT called on patient
Routine, Until discontinued, Starting today at 1426, Until Specified
 - PCA : monitor sedation per RASS
 - PCA : Monitor sedation per RASS
Care Instructions: Monitor sedation per RASS
While on PCA: monitor sedation per RASS
Routine, Every 4 hours, First occurrence today at 1600, Until Specified
 - PCA : monitor vital signs
 - PCA : Vital Signs
While on: PCA
Monitor Vital Signs: Respiration, Heart Rate, Blood Pressure, Oxygenation, Pain, Sedation
Monitor Vital Signs: At Baseline before PCA or continuous controlled substance infusion, then every 30 minutes x 2, then every 4 hours after the following actions and as needed
Monitoring Actions: Therapy Initiation, Changes in medication dose, Changes in concentration, Changes in rate of administration, Adverse event, Patient deterioration, Change in sedation score
Routine, Every 4 hours, First occurrence today at 1600, Until Specified
 - PCA : Respiratory Monitoring
 - PCA : Measure respiratory rate
While on: PCA
PCA : monitor: 1. Respiratory Rate, 2. Respiratory Quality, 3. Saturation of peripheral oxygen via pulse oximetry (SPOT) and / or end-tidal carbon dioxide capnography (ETCO2)
Routine, Every 4 hours, First occurrence today at 1600, Until Specified
 - PCA : Required Documentation
 - PCA : Required Documentation
Care Instructions: Document and Clear PCA pump
While on: PCA
 1. Total Demands and Demands Delivered
 2. Total Amount (e.g. mg) infused
 3. Volume (mL) infused
 4. Volume (mL) bag/cartridge Left to Count
 5. Clear Patient History on infusion pumpRoutine, Every 4 hours, First occurrence today at 1600, Until Specified

Next Required ept

New Order:
Demands and Delivered Now
Required q4h with other
Controlled Substance
Documentation

Locating Volume Infused / Volume left to count on the BD Alaris Pump (Required documentation q4h)

- Visually verify that VTBI on Pump Home screen matches volume in syringe and Note this amount



Locating Demand vs. Deliver Data on the BD Alaris Pump

(Required documentation q4h)

Step 1

PRESS “Chanel Select”

Step 2

PRESS “Options”

Step 3

PRESS “Patient History”

- Pump displays data over last 8 hours

Step 4

PRESS “Zoom” once to change the look back to 4 hours

- Note amounts displayed:
 - Total Drug
 - Total Demands
 - Delivered

Step 5

Press “Clear History”

*Clearing history does not clear the Volume Infused

Locating Demand vs. Deliver Step By Step

1 Press "Channel Select"

2 Press "Options"

3 Select "Patient History"

4 Press "Zoom" once to change look back to 4 hours

5 Note Amounts displayed for:
Total Drug
Total Demands
Delivered

6 Press "Clear History"

SHIFT TOTALS	
Total Drug	3.75 mg
Total Demands	3
Delivered	3

Rate Dose Verify MAR Action

Documenting q4h Required Documentation using Rate Dose Verify MAR Action

Required Fields are Highlighted in Yellow

PCA Assess- Hydromorphone (1 mg/mL)	
Volume (mL) at start Hydromorphone	<input type="text"/> <input type="checkbox"/> 44.4 at 3/8/2023 0719
Volume (mL) primed Hydromorphone	<input type="text"/> <input type="checkbox"/> 1.5 at 3/7/2023 1033
Volume (mL) infused Hydromorphone	<input type="text" value="10"/> <input type="checkbox"/> 4.8 at 3/8/2023 0719
Total Dose (mg) - Hydromorphone	<input type="text" value="3.75"/> <input type="checkbox"/> <input type="checkbox"/>
Total Demands - Hydromorphone	<input type="text" value="3"/> <input type="checkbox"/> <input type="checkbox"/>
Demands Delivered - Hydromorphone	<input type="text" value="3"/> <input type="checkbox"/> <input type="checkbox"/>
Volume (mL) prime wasted Hydromorphone	<input type="text"/> <input type="checkbox"/>
Volume (mL) bag/cartridge wasted Hydromorphone	<input type="text"/> <input type="checkbox"/>
Volume (mL) bag/cartridge left to count Hydromorphone	<input type="text" value="29.6"/> <input type="checkbox"/> 39.6 at 3/8/2023 0719
Formula bag/cartridge left to count Hydromorphone	<input type="text" value="29.6"/> <input type="checkbox"/> 39.6 at 3/8/2023 0719
Formula prime left to count Hydromorphone	<input type="text"/> <input type="checkbox"/> 1.5 at 3/7/2023 1033

Document Calculated Volume Infused from #2

Document 4-6 using data obtained from Patient History on

Subtract VTBI from Alaris Pump from previous Documented Volume left to count: This is the Volume Infused since last documentation

- 3
- 4
- 5
- 6

- 1 Document VTBI from Alaris Pump
- 7 Verify this matches the Volume entered in step 1

2

Documenting q4h Required Documentation using Flowsheets

Flowsheets

File ⁷ Add Rows LDA Avatar Add Col Insert Col Last Filed Reg Doc Graph Go to Date Responsible Refresh

Children's Vitals I/O C.D.R. Assessment All Doc Intervention Plays Vitals I/O Screenings Blood Care Partner/Vitals &...

1m 5m 10m 15m 30m 1h 2h 4h 8h 24h Interval Start: 0700 Reset

Adult Hospital with Adetola Adamo Kassim, MD

3/8/2023

2200 2300 0000 0031 Last Filed

Search (Alt+Comma)

PCA Assess- Hydromorphone (1 mg/mL)

Volume (mL) at start Hydromorphone					40.5 mL
Volume (mL) primed Hydromorphone					1.5 mL
Volume (mL) infused Hydromorphone			14.8	3	4.1 mL
Total Dose (mg) - Hydromorphone			3.75	4	
Total Demands - Hydromorphone			3	5	
Demands Delivered - Hydromorphone			3	6	
Volume (mL) prime wasted Hydromorp...					0
Volume (mL) bag/cartridge wasted Hyd...					44.5 mL
Volume (mL) bag/cartridge left to count...			29.6	1	44.4 mL
Formula bag/cartridge left to count Hyd...					44.4 mL
Formula prime left to count Hydromorp...					1.5

Document 4-6 using data obtained from Patient History on Alaris Pump

Document Volume Infused calculated in step 2

Document VTBI from Alaris Pump

Subtract VTBI from Alaris Pump from previous Documented Volume left to count: This is the Volume Infused since last documentation

Verifying PCA Documentation on Flowsheets

Review documentation:

Flowsheets

File Add Rows LDA Avatar Add Col Insert Col

	Admissi
	3/7/2023
<input type="text" value="Search (Alt+Comma)"/>	2300
PCA Assess- Hydromorphone (1 mg/mL)	
Volume (mL) at start Hydromorphone	
Volume (mL) primed Hydromorphone	
Volume (mL) infused Hydromorphone	14.8
Total Dose (mg) - Hydromorphone	3.75
Total Demands - Hydromorphone	3
Demands Delivered - Hydromorphone	3
Volume (mL) prime wasted Hydromorp...	
Volume (mL) bag/cartridge wasted Hyd...	
Volume (mL) bag/cartridge left to count...	29.6
Formula bag/cartridge left to count Hyd...	29.6

Verify documented
left to count
matches Formula
left to count