

TRANSITIONING TO UTILIZING CONTINUOUS AMBULATORY DRUG DELIVERY (CADD)-SOLIS VIP™ PUMPS

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DESCRIPTION

The safe delivery of continuous opioid subcutaneous infusions (morphine or hydromorphone) to patients is optimized when staff are adequately trained in utilizing a CADD pump. In October 2024, Calea (rental vendor), notified Humber River Health (HRH) about the transition to a new CADD-Solis VIP™ pump. Eligible patients in HRH's Oncology Medicine inpatient unit will use the new CADD pump for Patient-Controlled Analgesia (PCA). A collaborative working team was created to identify opportunities to revise the physician CADD-PCA order set to add naloxone administration and the revision of nursing documentation to ensure compliance within the organization. The goal is to promote education initiatives for HRH staff regarding the transition to this newly introduced CADD Solis VIP™ pump for patient use.

OBJECTIVE

To develop a multidisciplinary approach for staff education on using CADD-Solis VIP™ Pump in the Oncology Medicine inpatient unit.

ACTIONS TAKEN

The team completed the following actions:

- Stakeholder meetings with program leaders, nursing, pharmacy, physicians, Calea pump rental vendor, informatic analysts, and Ontario Health atHome (OHAH).
- Modification of Opioid Subcutaneous Infusion (CADD-PCA) order set to update the medication titration protocol for new CADD-Solis VIP™ pump settings and the addition of Naloxone for sedation/respiratory depression management.
- Revision of nursing documentation to include CADD pump care items and titration of opioid medications on the Medication Administration Record (MAR) IV/Titration Flowsheet.
- In-person clinical staff education session regarding CADD-Solis VIP™ Pump programming.
- Policy updates and adding continued monitoring post implementation documentation.

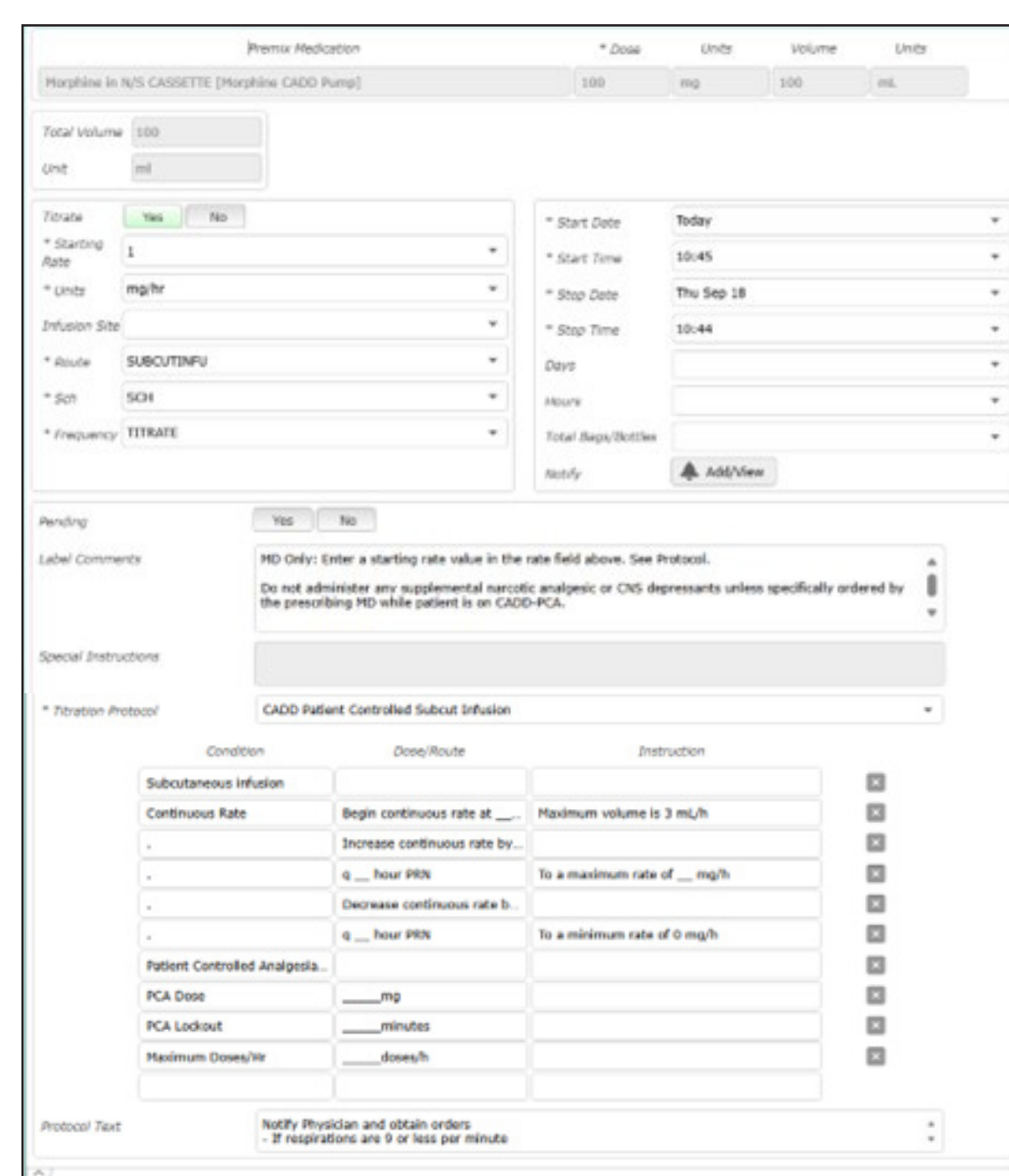




Figure 2. ICU Medical CADD-Solis VIP™ Pump rented to HRH from Calea.

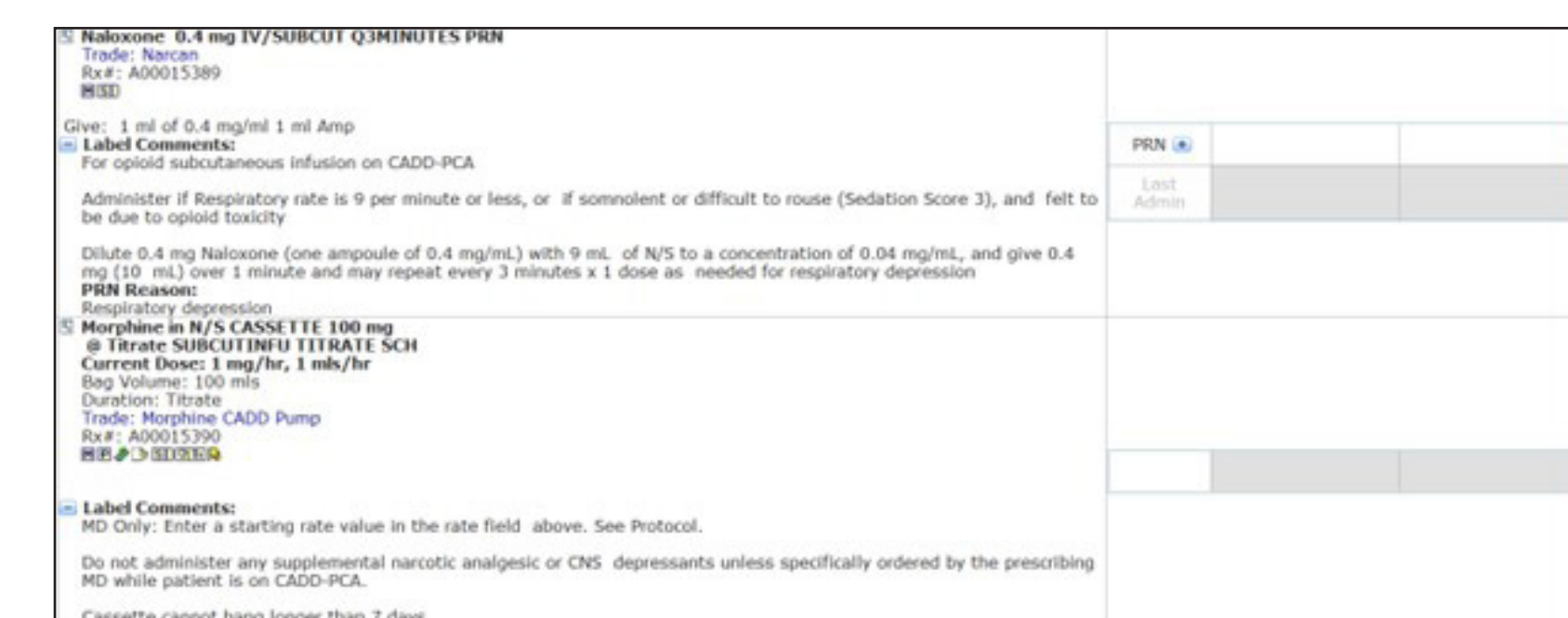


Figure 3. Medication Administration Record (MAR) view.

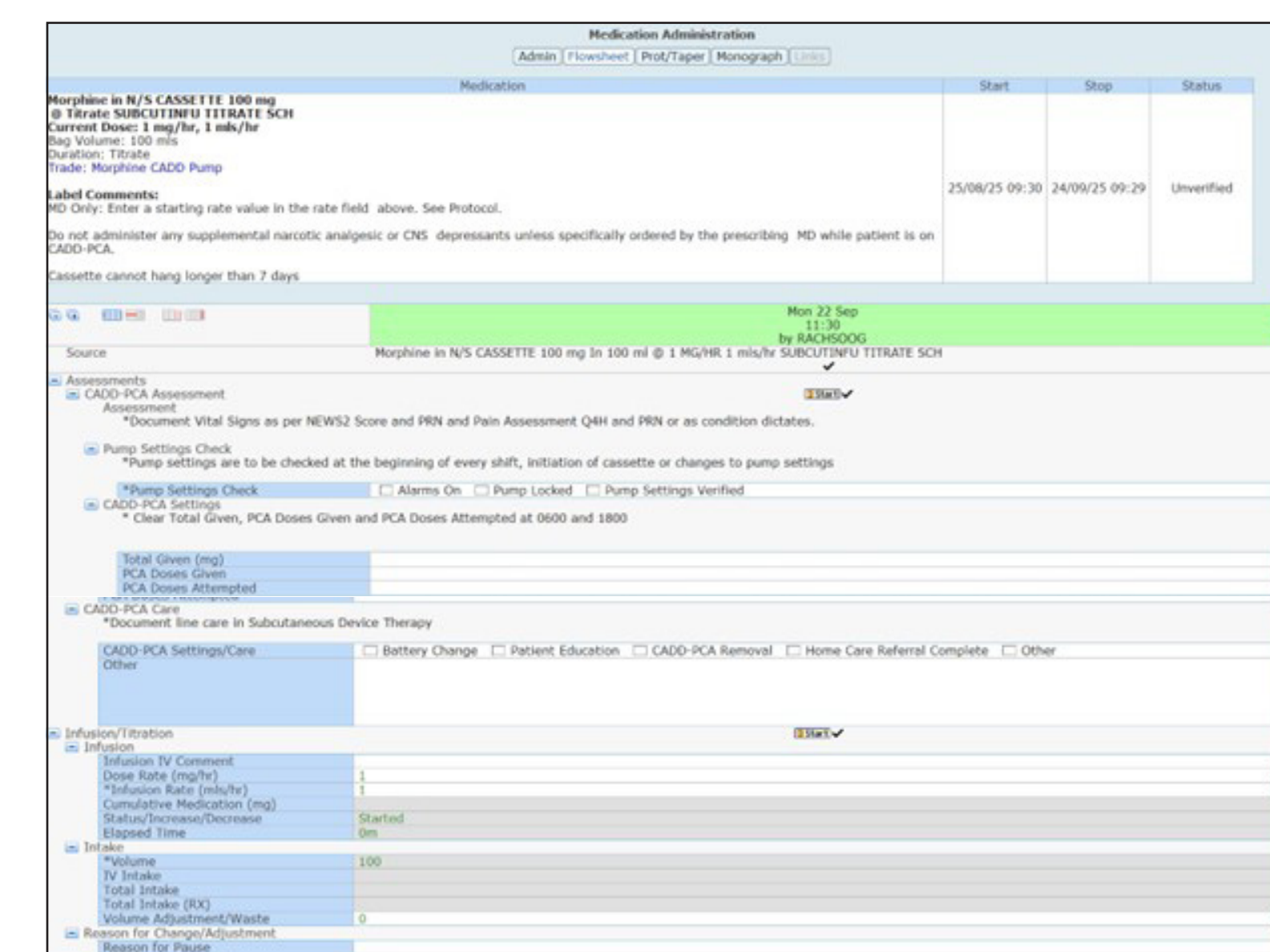


Figure 4. MAR IV/ Titration Flowsheet for CADD-PCA pump.

SUMMARY OF RESULTS

In September 2025, the updated CADD-PCA order set and nursing documentation were implemented in the Oncology Medicine unit. Education sessions were provided to all clinical staff for the CADD-PCA order set change. In addition, nurses were educated on the CADD-Solis VIP™ pump programming, naloxone administration, and nursing documentation on the MAR Intravenous (IV)/ Titration Flowsheet. The figures 1-4 include the updated CADD-PCA Order Set and MAR IV/Titration Flowsheet. This education initiative helped strengthen support for frontline staff through one-on-one training.

LESSONS LEARNED

Commitment and dedication among stakeholders to enhance staff education for CADD-Solis VIP™ pumps will further support patient's autonomy for individualized pain management.

