

Procedure Title:	CADD®-Solis Pump Use by the Acute Pain Service	
Applies To:	Registered Nurses	
Location Applicability:	Acute Pain Service - Central Zone <ul style="list-style-type: none"> o HI and VG sites only 	
Governing Policy:	Smart Pump Infusion Therapy - Use of Infusion Pump with Dose Error Reduction System (DERS) - NSHA CL-PT-010	
Approved:	Effective:	Next Review:
March 30, 2022	September 6, 2022	March 30, 2026
Sponsor:	Medical Director, Acute Pain Services QEII Director Health Services, Perioperative and Pain Services, Central Zone	
Approval Authority:	Medical Director, Acute Pain Services QEII Director Health Services, Perioperative and Pain Services, Central Zone	
Number	CL-PT-010.02	Manual: Interdisciplinary Clinical

MODALITIES

- The following Acute Pain Service (APS) approaches to managing pain will require the use of a CADD®-Solis 2110 pump with software version 4.3:
 - Intravenous (IV) opioid patient-controlled analgesia (PCA)
 - IV Ketamine infusions
 - Epidural Infusions
 - Continuous peripheral nerve block (CPNB) local anesthetic infusions

PROCEDURE

Competency Requirements

- Obtain initial training, which includes:

- 1.1. Review of this procedure
- 1.2. Complete Smiths Medical CADD Solis Ambulatory Infusion Pump Training course:
 - [CADD®-Solis v4 Ambulatory Infusion Pump, Online Training Course | Smiths Medical Academy \(smiths-medical.com\)](#)
 - Username: NSN
 - Password: 12nsn13
- 1.3. Completion of the [LMS](#) learning module (search catalogue for CADD®-Solis ambulatory infusion pump exam).
- 1.4. Practical instruction from a Registered Nurse (RN) competent in the use of the CADD®-Solis Pump.
- 1.5. Completion of the [Proficiency Skills Checklist](#).
2. Perform on-going self-assessment of competence.
 - 2.1. Document self-assessment of competence in LMS a minimum of every two years.
 - 2.2. When a deficit in competence is identified, develop a plan to address the deficit with immediate supervisor. This may include:
 - Review of this policy.
 - Completion of the [LMS](#) learning module (search catalogue for CADD®-Solis ambulatory Infusion pump exam.)
 - Practical instruction from an RN competent in the use of the CADD®-Solis pump.
 - Successful completion of the [Proficiency Skills Check List](#).

NOTE: The competency requirements listed above are for the CADD®-Solis pump **ONLY**.

RNs are required to review associated policies and complete the associated competency requirements to care for patients receiving:

- IV opioid PCA,
- Epidural analgesia
- CPNB infusions

Drug Library

1. Choose the most appropriate drug library according to the prescribed medication and route of delivery:
 - IV opioid PCA/ketamine, **or**
 - Epidural/CPNB
2. Drug Library updates
 - 2.1. Forward requests to update/change drug libraries to Medical Director of Acute Pain Services.

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2.2. The APS team will review requests to update the Drug Library annually.

Equipment

1. Select the appropriate equipment for the Drug Library and route of delivery selected:

1.1. Epidural and CPNB infusions

- Use yellow striped tubing with no ports
- A pole mount bracket is only required (i.e., a Lockbox is **not** required)

1.2. IV opioid PCA and IV Ketamine infusions

- Use CADD® Administration Set with:
 - Bag spike
 - Flow stop
 - 7.6cm y-extension
 - one-way check valve with female luer
 - One-way check valve with male luer and clamps.
- Use a CADD®-Solis Lockbox.

NOTE:

- CADD®-Solis pumps with drug library IV opioid PCA/Ketamine are mounted inside a CADD®-Solis lockbox at all times (during patient use and while in storage).
- The pump access key must:
 - Be locked in a secured location when not in use.
 - Not be shared with patients.

2. Note the following restrictions:

2.1. The pump should not be transferred with a patient outside of Central Zone.

- The pump may be transferred between the VG and HI sites.

2.2. Do **not** use the pump:

- As an ambulatory device for home nerve block infusions.
- To deliver continuous subcutaneous infusions.

Setup and Operation

1. Refer to pump [user manual](#) and/or the following guides for setup and general operation of the CADD®-Solis in pain services.

- [CADD®-Solis General Setup and Operation](#)
- [Steps to set up CADD®-Solis IV opioid PCA](#)
- [Steps to set p CADD®-Solis IV Ketamine](#)

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- Additional resources can be found on the [Infusion Therapy Site](#).

Safety/Quality Improvement

1. The APS team is responsible to meet every six months to perform a quality improvement review of reported SIMS, medication errors and patient outcomes.

Manual Mode

1. Manual mode is only accessible by an administrator code. The administrator code is known by:
 - Biomedical staff.
 - Registered nurses on the APS team.
 - The Director of Regional Anesthesia and Acute Pain.

RELATED DOCUMENTS

[Peripheral Nerve Block \(PNB\) Analgesia \(Continuous and single shot\): Post-operative Care of Patient - Policy and Procedure - NSHA SS-PM-005](#)

[User manual CADD®-Solis 2110 Software version 4.3](#)

User manual CADD®-Solis Lockbox

[CADD®-Solis General Setup and Operation](#)

[Steps to set up CADD®-Solis IV opioid PCA](#)

[Steps to set p CADD®-Solis IV Ketamine](#)

Forms

[Proficiency Checklist](#)

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VERSION HISTORY

Version:	Effective:	Approved by:	What's changed:
Original	2022-09-06	Medical Director, APS QEII Director Health Services, Perioperative and Pain Services	N/A