

Parenteral Infusion Therapy (Subcutaneous Infusion - Hypodermoclysis) for Long-term Care 10.3.16PR

Procedures are a series of required steps to complete a task, activity or action

island health

Purpose:	<ul> <li>To administer parenteral fluids for hydration when:</li> <li>Resident is unable to ingest sufficient amount of fluid orally and has unstressing symptoms that may respond to hydration.</li> <li>Intravenous access is not required, possible or practical.</li> <li>Resident presents with persistent nausea or vomiting.</li> <li>Resident does not require either immediate or high volume fluid replacement.</li> <li>Resident does not have respiratory congestion, large ascites or extensive edema.</li> <li>Resident requires parenteral hydration for a short trial of rehydration with clear goals and time frame (48 to 72 hours).</li> </ul>
Scope:	<ul> <li>RN, RPN, LPN, Physician, NP</li> <li>Long-term Care Island Wide</li> </ul>
Outcomes:	<ul> <li>Residents will receive hydration therapy in a safe manner, when required.</li> <li>Residents and their families will be provided information about the advantages of subcutaneous Infusion (hypodermoclysis) as a hydration strategy.</li> </ul>

### 1.0 Equipment

- 24 gauge Saf-T-Intima cannula
- Connector (e.g.MaxZero needleless)
- Transparent dressing
- Alcohol swab
- Tape (e.g. Micropore)
- IV tubing
- gloves
- 1000cc bag of solution as per physician's orders:
  - o 0.9% sodium chloride (normal saline)
  - dextrose 3.33% and 0.3% sodium chloride (2/3-1/3)
  - o Ringers Lactate

\*Do not use D5W as the infusion fluid; it draws fluid into the surrounding tissue and causes pain at the site.

### 2.0 Procedure

Steps	Key Points				
Assessment	• To assess resident's hydration needs through appropriate history, physical and laboratory evaluation.				
	• To assess for other possible factors contributing to fluid problems including delirium, sepsis, bowel obstruction, hypercalcemia, vomiting or diarrhea, excess diuretic therapy.				
	• Review possible and likely causes for insufficient fluid intake based on individual situation.				
	• .				
	<ul> <li>From the possible criteria list, team including physician discuss purpose, benefit, procedure, and possible side effects of subcutaneous infusion to the resident/family.</li> </ul>				

Maintained by:	Long-term Care					
Issuing Authority:	Long-term Care Qu	ality Council				
Last Revised:	2019-04-01	Last Reviewed:	2018-01-29	First Issued:	2009-02-19	Page 1 of 4
	1 1 1 6		1.1 .			



Maintained by:	Long-term Care					
Issuing Authority:	Long-term Care Quality Council					
Last Revised:	2019-04-01	Last Reviewed:	2018-01-29	First issued:	2009-02-19	Page 2 of 4

		Substitution of the second with transport drossings at all
	•	Subcutaneous injection sites will be covered with transparent dressings at all times.
Preparing to attach tubing	•	Grasp white shield and pull in a straight continuous motion. Place shielded needle
		into sharps container
	•	Loosely hold at injection site to prevent whole Saf-T-Intima from accidentally pulling out.
	•	Apply needless connector.
	•	Secure tubing to resident skin and apply label to site dressing including date, time and nurse's initials.
	•	Secure Saf-T-Intima cannula with tape to prevent dislodgment.
Attaching parenteral fluids	•	Prime tubing with prescribed solution, scrub the hub of the needless connector
		with alcohol swab, min 10 sec. and attach tubing to needless connector.
	•	Label solution bag and subcutaneous site that this is for hydration only. Do not
		add medication.
	•	Adjust roller clamp to the rate ordered by the physician.
	•	After solution absorbed disconnect from needless connector.
Monitoring/maintenance of site	•	Monitor site for leakage, drainage, induration or redness q1-2h.
	•	Change the solution bag every 24 hours.
	•	Sites fluids should be rotated q 24 to 48 hours or 1.5 -2.0 liters of infused fluids.
	•	Use new tubing set and bag with every new injection site start.
	•	Do Not mix hypodermoclysis solutions with medications. If medications are being
		administered by the subcutaneous route, use separate site(s).
Documentation	•	Document following information in Progress Notes or in Electronic Health Record
		(EHR) where applicable:
		<ul> <li>Site used</li> </ul>
		$\circ$ Type of device (identify as Saf-T-Intima), including gauge
		<ul> <li>Date/Time of insertion</li> </ul>
		<ul> <li>Resident's response to insertion</li> </ul>
		<ul> <li>Nurse's initials/signature</li> </ul>
	•	Document continuous subcutaneous infusion (intake) on Fluid Balance Record or in EHR where applicable.
	•	Document side effects or adverse reactions in Progress Notes or in EHR where
		applicable.
	•	Document resident's progress and clinical outcomes on the Progress Notes or in
		EHR where applicable.
	•	Specific interventions related to the subcutaneous infusion therapy are included in
		the resident Care Plan or in EHR where applicable.

# 3.0 Definitions

• **Subcutaneous infusion (Hypodermoclysis**): Artificial hydration by the provision of parenteral fluids when a resident cannot be hydrated orally.

# 4.0 Related Island Health Standards

• 12.2.25PR Insertion of a Saf-T-Intima for Subcutaneous Access for Continuous Use

Maintained by:	Long-term Care					
Issuing Authority:	Long-term Care Quality Council					
Last Revised:	2019-04-01	Last Reviewed:	2018-01-29	First issued:	2009-02-19	Page 3 of 4



- 12.2.24PR Insertion of a Saf-T-Intima for Subcutaneous Access for Intermittent Use
- 12.6.6G Dehydration

## 5.0 References

- Mosby's Skills; Continuous Subcutaneous and Subcutaneous Injections Infusion on intranet
- Infusion Nurses Society (2011). Infusion Nursing Standards of Practice. *Journal of Infusion Nursing*, page S84. <u>www.ins1.org</u>

Maintained by:	Long-term Care					
Issuing Authority:	Long-term Care Quality Council					
Last Revised:	2019-04-01	Last Reviewed:	2018-01-29	First issued:	2009-02-19	Page 4 of 4
	1 1 1 6		1.1 .			