

Quick Reference Guide for Hospira IV pumps

Instructions & Comments

INDICATIONS

- Administration of intravenous fluids
- Administration of intravenous medications
- Administration of parenteral nutrition
- Administration of blood and blood products

WHAT DO I NEED TO DOCUMENT?








- Location of access site
- Condition of access site
NOTE: an access site assessed as WDL is clean, dry, visible, with no inflammation, the tissue proximal to the line is warm and soft on palpation
- Route of administration (e.g. central, peripheral, etc.)
- Number of lumens
- Type of access device (e.g. IV catheter, PICC, etc.)
- Which lumen is being used for the infusion
- Any additives to solution (e.g. medication)
- Which line (primary vs secondary)
- Status of infusion
- Method of infusion (e.g. gravity, pump, etc.)
- Rate in mL/hr
- Amount infused
- Amount to be absorbed
- Pump pressure

NURSING RESPONSIBILITIES

- ✓ Observe site q1h for tenderness, discoloration, inflammation or infiltration. Document upon changing the rate, solution and when pump is cleared
- ✓ Pump should be cleared at the end of each shift
- ✓ Pressure per square inch (PSI) will be documented each shift
- ✓ Change site q96h and PRN
- ✓ Flush saline locks q12h and PRN with 3mL NS
- ✓ Clamp tubing on extension set when not in use
- ✓ Continuously assess appropriateness of therapy and ongoing need for intravenous access
- ✓ Change tubing q96h unless otherwise identified by specific guidelines (e.g. TPN tubing changed q24h, blood tubing q4h or after 2 units)
- ✓ Be aware of therapy specific guidelines for tubing changes in your area
- ✓ Label tubing and site with expiry/replacement date
- ✓ Ensure all infusions administered through a central venous access device are done so with an infusion pump
- ✓ Ensure a pump is used for all paediatric patients; buretrols should be used on paediatric patients less than or equal to 20 kg
- ✓ Ensure continuous infusions of medications (e.g. heparin) are run on the primary line

Equipment & Assessments

DESCRIPTION OF THE KEYS

KEY	DESCRIPTION
	Begins infusion Final confirmation of programming
	Stops infusion(s)
	Turns pump on and off
	Clears highlighted data fields
	Silences audible alarm
	Move highlighting cursor between programming fields
	Soft keys serve a variety of functions depending on the text displayed on the screen above the actual key

PRIMING THE TUBING

1. Make sure flow regulator on cassette of tubing is closed (pushed in all the way)
2. Insert piercing pin into solution bag with a twisting motion
3. Fill drip chamber to about ½ full (score mark on chamber indicates ½ full)
4. Invert the cassette
5. Turn the flow regulator (white button) counter-clockwise until a drop of solution is seen in the pumping chamber (circle chamber in cassette)
6. Turn the cassette upright and allow solution to expel air from remainder of tubing
7. Once all air is purged push in the flow regulator to close and stop flow of solution

LOADING THE CASSETTE

1. Press **ON/OFF** to turn pump on (pump will go through self-check process)
NOTE: pump will ask "clear settings?" once self-check is complete. Answer Yes or No using soft key arrows
2. Open cassette door on pump by lifting up the lever
3. Insert cassette into the door guides with the flow regulator to the back
4. Close the cassette door and confirm there are no kinks and no flow of solution

BACKPRIMING

1. Press **STOP** to cease delivery of infusion(s)
2. Press and hold **soft key ▲** that corresponds to *Back Prime* until fluid from Line A has expelled all the air from the cassette and Line B tubing into the Line B container
3. Press **START** to resume programmed delivery

Instructions & Comments

PROGRAMMING PRIMARY INFUSION

1. Press **soft key ▲** that corresponds to *A (primary line)*
2. Enter delivery rate in mL/hr using numeric keypad
3. Press **▼SELECT** to move highlighter to the VTBI field
4. Enter volume to be infused using the numeric keypad
5. Press **▼SELECT** to move highlighter to the Duration field
6. Use numeric keypad to change the duration of the infusion

if desired (first hours then minutes)

NOTE: programming the prescribed rate and VTBI will automatically generate the duration of the infusion. Changing the duration will change the rate of the infusion.

7. Press **START** to begin infusion

PROGRAMMING SECONDARY INFUSION

1. While primary line is infusing press **soft key ▲** that corresponds to *B (secondary line)*

2. The mode of delivery is highlighted (*piggyback* or *concurrent*)

NOTE: Piggyback mode will stop line A and infuse line B until the VTBI is complete and then line A will automatically restart.

Concurrent mode will simultaneously deliver both line A and line B at programmed flow rates.

3. Press **soft key ▲** that corresponds to *change mode* on display screen
4. Press **▼SELECT** to move highlighter to rate field
5. Enter rate using numeric keypad
6. Press **▼SELECT** to move highlighter to VTBI field
7. Enter volume to be infused using numeric keypad
8. Press **▼SELECT** to move highlighter to the Duration field
9. Use numeric keypad to change the duration of the infusion if desired (first hours then minutes)

NOTE: programming the prescribed rate and VTBI will automatically generate the duration of the infusion. Changing the duration will change the rate of the infusion.

10. Press **START** to begin infusion

CLEARING PROGRAM SETTINGS

1. Press **STOP**
2. Press **soft key ▲** that corresponds to the Line programming you want to clear
3. Press **soft key ▲** that corresponds to *Clear Program*
4. Press **soft key ▲** that corresponds to *Yes* when asked to verify that you want to clear settings
5. Enter new program settings using the numeric keypad

PROGRAMMING A THERAPY

1. Press **soft key ▲** that corresponds to Line A
2. Press **soft key ▲** that corresponds to Therapy
3. Press **▼SELECT** or **▲ SELECT** to highlight medication in drug list
4. Press **soft key ▲** that corresponds to Enter
5. Press **▼SELECT** to highlight therapy choice (Dose Calculation, Loading Dose, Multistep)
6. Press **soft key ▲** that corresponds to Choose

Equipment & Assessments

DOSE CALCULATION (programs dose rates in alternative units of measure)

1. Press **▼SELECT** to highlight appropriate dose units for selected medication (e.g. mcg/kg/min)
2. Press **soft key ▲** that corresponds to *Choose*
3. Press **▼SELECT** to highlight appropriate concentration of medication in container
4. Press **soft key ▲** that corresponds to *Choose*
5. Enter amount of drug in container, container volume, patient weight (if appropriate), dose, VTBI, duration (if appropriate), and rate using the numeric keypad. Use the **▼SELECT** or **▲ SELECT** to move between highlighted fields
6. Press **START**
7. Press **soft key ▲** that corresponds to *Yes* or *No* when asked to Confirm Program

LOADING DOSE (programs initial infusion rate followed automatically by maintenance rate)

1. Press **▼SELECT** to highlight appropriate dose units for selected medication (e.g. mcg/kg/min)
2. Press **soft key ▲** that corresponds to *Choose*
3. Enter rate, VTBI, duration (if applicable) using the numeric keypad for line 1 (this is the loading dose)
4. Press **▼SELECT** to move to line 2
5. Enter rate, VTBI, duration (if applicable) using the numeric keypad for line 2 (this is the maintenance rate)
6. Press **START**

MULTISTEP (allows programming of sequential program delivery up to 10 steps)

1. Press **▼SELECT** to highlight appropriate dose units for selected medication (e.g. mcg/kg/min)
2. Press **soft key ▲** that corresponds to *Choose*
3. Enter rate, VTBI, duration (if applicable) using the numeric keypad for each infusion step
4. Press **START**

CLEARING THE PUMP

1. Press **STOP**
2. Press **soft key ▲** that corresponds to *Options/Vol Inf*
3. Press **soft key ▲** that corresponds to *Choose* when *Volumes Infused* is highlighted
4. Press **▼SELECT** to highlight volume to clear (*Line A, Line B, Total Vol*)
5. Press **CLEAR**
6. Press **soft key ▲** that corresponds to *Enter*
7. Press **START** to restart infusion

