# Indications for Use

Patient Controlled Analgesia

NB: There are specific clinical competencies for:

* Setting up a pump
* Managing the pump on the ward
* Delivering a bolus

# Risks and Hazards

* Free flow
* Post occlusion bolus

# Safety Features

A number of features have been built into the pump:

* Automated syringe loading
* Drug protocols
* Pressure alarm level
* Lockable cover
* Charting and graph facility
* Handset with cable and wrist strap
* Event log events: 1,500
* Battery operating life: 10 hours at 5ml/h; when fully charged
* Battery charging time: 10 hours

# Pre-use checks

Before using the pump, check to see if the pump:

* is **C**lean
* has a **H**olding Device i.e. attached to a drip stand
* is **I**n tact
* is **P**lugged in and fully charged
* has been **S**erviced within the last year and has an asset number (check the stickers on the pump)

# Preparation

* The pump should be attached to a 5-legged drip stand
* Normal infection control procedures apply
* Select the appropriate administration set and check the set is in date
* Prepare the infusion, checking that all components are in date
* Record the pump asset number on the infusion pump check chart

# Buttons

|  |  |
| --- | --- |
|  | On/off button |
|  | Start key |
|  | Stop key |
|  | Infusion LED  Green flashing:  Slow – pump is on standby  Fast – pump is infusing  Steady - Infusion is suspended  Orange flashing/steady  Syringe is nearly empty |
|  | Battery or mains |
|  | Alarm LED and alarm silence key  Red flashing – pump has stopped. Read screen message. |
|  | Syringe load key |
|  | Cancel key |
|  | Decimal point key |
|  | Command wheel  Used to enter commands into the pump |

# Set up summary:

**NB: Only staff that have been trained by the Pain Management Service can set up an infusion.**

1. Switch on and load syringe
2. Programme the protocol if trained to do so
3. Purge the line if trained to do so
4. Set the Occlusion alarm pressure
5. Connect the patient handset
6. Start the infusion

# 1. Switch on and load syringe

* Prepare the syringe and line
* Switch on the pump
* Lift up the barrel clamp
* Place the syringe in the trough and close the barrel clamp
* The screen will display the size of the syringe. Press the command wheel to confirm
* Press and hold the blue LOAD key until the pump bleeps and displays the syringe loaded message.

# 2. Programme in a Protocol

Once the syringe has been loaded:

* Select the relevant protocol:
  + Adult morphine under 70 yrs
  + Adult morphine over 70 yrs
  + Adult Fentanyl
  + Adult Pethidine
* Use the command wheel to scroll down (move wheel to the right) to CONFIRM
* Press the command wheel
* Select TOTAL
* Highlight and select RESET hotspot
* Press the command wheel

# 3. Purge the Line

* Highlight and select PURGE hotspot
* Ensure the line is disconnect from the patient
* Press and hold the command wheel
* When complete, release the wheel

# 4. Set the Occlusion Alarm pressure

* Select the pressure icon and check the Occlusion Alarm Level
* Select REVIEW to go back to the REVIEW screen
* Close and lock the cover

# 5. Connect the handset

* Connect the handset by lining up the arrows

# 6. Start the infusion

* Press START
* The Standby screen is displayed and the patient can now use the handset

# Change the syringe

* Suspend the infusion by lightly pressing the stop button
* Unlock and open the cover
* Lift the barrel clamp and follow on screen prompts to unload syringe
* Clamp the line, then connect the new syringe to the line
* Load the new syringe
* Close and lock the cover then press Start

# To Deliver a clinician bolus

**NB: Only staff that have been trained by the Pain Management Service can deliver a clinician bolus.**

* Highlight and select C.BOLUS hotspot by pressing the command wheel
* Enter the password number and press the command wheel
* Use the keypad to enter the bolus dose you want to deliver (t he rate and time is calculated)
* Press the command wheel to accept values
* Press and hold the command wheel to start bolus delivery
* The Standby screen will then be displayed

# To Pause an infusion

* Briefly press the Stop button
* Unlock and open the cover
* Carry out the procedure as required
* Close and re-lock the cover
* Press the Start key

# To end an infusion and stop pump

* Press and hold the Stop key.
* Keep holding down until you hear a beep.

# Switch off pump

* When the infusion has been stopped, press and hold the On/Off button

# Warnings and Alarms

**Warnings**

Indicated by a double-bleep sound. Not urgent

Can be one-off or repeated.

E.g. Low Battery or Ear not clamped

**Alarms**

Continuous alarm and the screen flashes red.

NB: The alarm will continue until silenced.

Action:

* Read the message
* Silence the alarm
* Check the patient
* Carry out recommended action on the screen
* Restart pump

# Cleaning and Decontamination

This should be carried out:

* before and after patient use
* on transportation between wards
* before returning to the equipment library
* on a daily basis when in use a on patient
* where otherwise indicated e.g. following a spill or leakage

Use Sani Cloth Detergent wipes and pay particular attention to:

* The trough
* The syringe ear slot
* The barrel clamp

Do not immerse the pump in water, it is not waterproof

**Under no circumstances should any monitor, pump or equipment screen be cleaned with an alcohol based product as this can lead to a clouding of the plastic**

# Storage

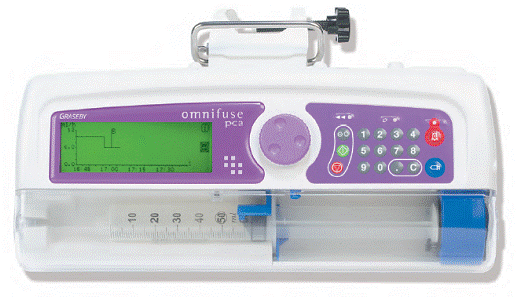
Store the pump:

* Somewhere clean and dry
* Plugged in
* Cleaned/decontaminated
* The pump should be returned to the equipment library when not in use

# Maintenance

The pump should be returned to the Equipment Library or Biomed for servicing on an annual basis.

**logo**

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**Graseby Omnifuse**

**PCA Pump**

**QUICK GUIDE**

**In the guide:**

* Indications for use
* Risks and Hazards
* Safety features
* Buttons and hotspots
* Pre-use checks and preparation
* Set up
* Change syringe
* Deliver a bolus dose
* Pause, end an infusion and switch off pump
* Alarms and alerts
* Cleaning and decontamination
* Storage and Maintenance

**For further information:**

Contact:

Pain Management Service on x 4335 or blp 1015/1186

Medical Device Trainer on x4448

Intranet:

Departments/Pain Management Service

Departments/Medical Device Training

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