# Indications for Use

This pump should only be used for epidural infusions and by staff on specified wards/departments

# Risks and Hazards

* Free flow
* Air entrainment
* Wrong route errors
* Dose calculation errors
* The line within the drug box can be occluded

# Safety Features

A number of features have been built into the pump and administration

* All pumps and consumables are colour coded yellow
* High visibility screen
* Information button
* Security access codes
* Free-flow protection
* Downloadable patient and event history
* Capable of continuous infusions with bolus
* Preset protocols
* Air sensor
* Lockable
* Battery life: approximately 2 to 2.5 days
* Battery charge time: 4 hours

# Pre-use checks

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

* is **C**lean
* has a **H**olding Device – drip stand
* is **I**n tact
* is **P**lugged in and fully charged
* has been **S**erviced, and has an asset number

# Preparation

* Ensure that you have a valid prescription
* The pump is attached to a 5-legged drip stand
* Normal infection control procedures apply i
* Select the appropriate administration set and check the set is in date
* Prepare the infusion, checking that all components are in date

# Buttons

|  |  |
| --- | --- |
|  | Start an infusion  To confirm an operation, select and move forwards through menus |
|  | Stop an infusion  Acts like a Back key through menus  Can also delete keyed entries |
|  | Deliver a bolus dose |
|  | Switch the pump on and off |
|  | Provide information on:  Infusions being carried out  Shift or trend data |
|  | 2 key  Up arrow |
|  | 0 key  Down arrow |
|  | Mains indicator |
|  | Battery indicator |

# Prime the Line

* Connect the administration set to the infusion bag
* Load the administration set onto the pump
* Press and hold the On/Off button until it bleeps
* Enter the level 1 security code and press Start/Ok
* Prime is already selected, so press Start/Ok again

NB: If you are asked “Press OK to Resume or No for Menu”, Select Menu.

The line will begin priming and the pump will return to the main menu when finished.

# Programme a protocol

From the main menu:

* Scroll down to “Select Protocol”
* Press the Start/Ok button to confirm
* Press the Start/Ok button for a new patient, else

Use the 2 and 0 keys to select the correct protocol:

* Press the Start/Ok button to confirm
* Press the Start/Ok button to start the infusion

# Titrate the Rate

From the Protocol screen:

* Enter the new rate
* Press the Start/Ok button to confirm
* Enter the level 1 security code and press Start/Ok

# Change the infusion bag

* Unlock the box and open the cover
* Stop the infusion
* Change the infusion bag
* Press Stop/No
* Enter the level 1 security code and press Start/Ok
* In the Menu, select Change Bag
* Press the Start/Ok button to confirm
* Press the Start/Ok button to start the infusion

The volume left will now display the new volume.

# Deliver a clinician bolus

Only specific staff can carry out this procedure.

* Press the orange Bolus button
* Enter the level 2 security code and press the green Start/Ok button
* Enter the amount of bolus dose to be given
* Press the green Start/Ok button

# Access Patient History

Press the Info key the required number of times to access the relevant screen:

1. Volume infused/To be infused
2. Battery level
3. Bolus Summary
4. Protocol Details
5. Current time and date

# Lock/Unlock the keypad

Press and hold the Info key to lock the screen

# Switch off

Hold the On/Off button down until the bar fills and the pump powers down

# 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**

Do not:

* immerse the pump in water, it is not waterproof
* use alcohol wipes where the percentage of alcohol exceeds 70%, as this damages the surface of the pump

**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

# Maintenance

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

# Alarms and Alerts

|  |  |
| --- | --- |
| Air /Up occlusion | Press Stop/No to mute alarm  Check for air, if present:   * Press and hold Stop/No * Press Stop/No for Menu * Enter level 1 access code * Disconnect from patient and prime the line * Press Stop/No to escape from menu * Press Start/Ok to resume   If no air,   * Check/clear “up occlusion” * Press Start/Ok to resume |
| Door Open | Close door |
| Down Occlusion | Set is blocked between pump and patient   * Press Stop/No to mute alarm * Check set is not pinched or clamped * Check access device * If all ok, press Start/Ok to resume |
| End Program | Cancel the alarm by pressing STOP/NO,  The preset volume has been delivered and thus a new bag may be required. |
| Internal Malfunction | The pump has encountered a problem and cannot continue.  The pump should be returned to the Equipment Library or Biomed |
| Lock Mode | Keypad lock has been activated |
| Low & End Battery | Connect to charger  4 hours needed for full charge  Pump can still be used when charging |
| Missing Key | The pumps administration set key is not properly installed |
| Pump Unattended | The infusion has been on hold too long  Press Start/Ok |
| System Malfunction (followed by error code) | The pump has encountered a problem and cannot continue.  The pump should be returned to the Equipment Library or Biomed |

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**McKinley BodyGuard 545**

**Epidural Pump**

**QUICK GUIDE**

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**For further information:**

Contact the Medical Device Trainer on x4448 or

Go to the intranet: Departments/Medical Device Training

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