Medtronic

# Record of intrathecal drug delivery therapy

SynchroMed™ II
Intrathecal pump


For emergency pump guidance please consult the back pages

Patients with Medtronic intrathecal drug delivery systems implanted **can safely be examined using MRI under certain conditions**

Prior to MRI examination it is critical that guidance from your physician is sought.

Clinic contact details:

Office hours:

Out of hours:

## System and implant details

| | |
|---|---|
| Implant date | |
| Pump type & serial no. | |
| Calibration constant | |
| Reservoir volume | |
| Catheter type | |
| Total catheter length implanted | |
| Catheter volume | |
| Initial drug | |
| Initial concentration | |
| Initial programmed dosage/24 hours | |

## Patient details

| | |
|---|---|
| Name | |
| NHS number | |
| GP name | |
| Indication for implant | |
| myPTM™ | Yes ☐ No ☐ |
| Notes/goals | |

## Follow-up appointment notes

| Date | Current dose | Refill date | Initials |
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# Emergency procedure for morphine overdose

**Disclaimer:** This document is for the attention of healthcare professionals only. These actions should only be taken by someone who is a healthcare professional.

Consult the patient's medical record or ask the patient's physician to confirm the drug or drug concentration within the pump reservoir.

## Symptoms:

Respiratory depression with or without concomitant central nervous system depression (i.e. dizziness, sedation, euphoria, anxiety, seizures, respiratory arrest).

## Actions:

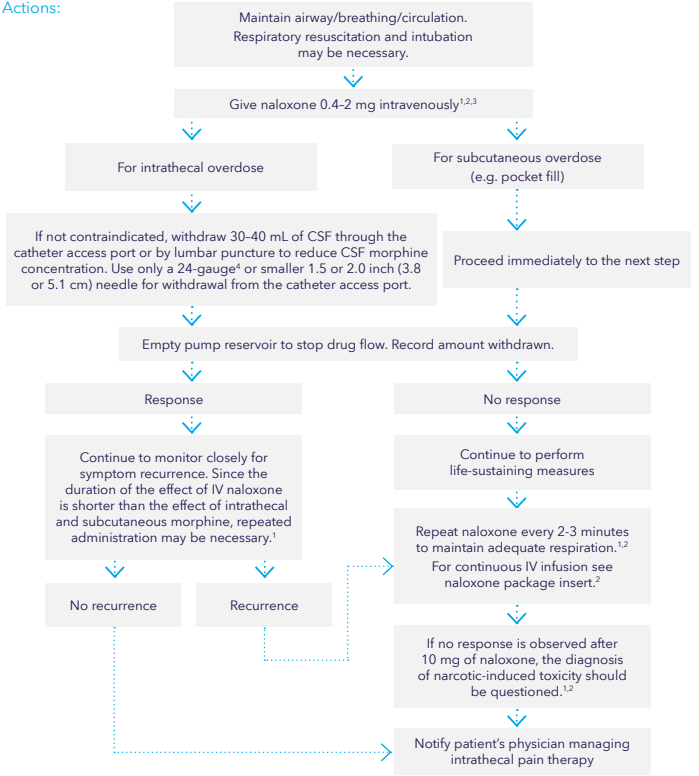



Figure 1. Morphine overdose emergency procedures.

1 Preservative-free morphine sulfate sterile solution manufacturer's package insert.
2 Naloxone hydrochloride manufacturer's package insert.
3 Refer to the drug manufacturer's package insert for a complete list of indications, contraindications, warnings, precautions, adverse events, and dosage and administration information.
4 Use a 24- or 25-gauge needle for withdrawal from a SynchroMed™ II catheter access port.

## Emergency procedure to empty the pump reservoir

**Equipment:** • 22-gauge non-coring needle • 20 mL syringe(s) • 3-way stopcock or extension set with clamp • Antiseptic agent

**1.** Assemble the needle, syringe, and stopcock or extension set.
**2.** Locate the pump by palpation.
The reservoir fill port is located in the CENTRE of the pump. If you have difficulty identifying the pump features, you may seek assistance from another clinician. If deemed necessary by the clinician, x-ray and fluoroscopy can be used to assist in locating or determining the orientation of the pump.
**3.** Prepare the injection site by cleansing the area using an antiseptic agent.
**4.** Gently insert the 22-gauge non-coring needle into the centre of the reservoir fill port until the needle touches the bottom of the reservoir fill port (Figure 2).
During proper needle insertion, the needle will:
- Pass through the patient's skin and subcutaneous tissue
- Hit the silicone septum, (scar tissue, if present, can feel similar to the septum)
- Pass through the septum, and
- Hit the metal bottom of the reservoir fill port
(the top of the pump is metal and hitting the top of the pump can feel similar to hitting the bottom of the reservoir fill port)
- If excessive resistance is encountered during needle insertion, reassess placement. Do not force the needle. The feel of abnormal resistance during the procedure may be an indication that the needle is not in the centre of the reservoir fill port.

**5.** Open the clamp or stopcock and slowly withdraw the fluid from the reservoir into the empty syringe.
**6.** Depending on pump reservoir volume, more than one syringe may be needed to empty the pump. Close the clamp or stopcock when changing syringes.
**7.** Completely empty the pump.
When the pump is empty, the bubbles will stop forming, and negative pressure in the syringe can be felt.
**8.** Remove the needle from the reservoir fill port.
**9.** Record in patient chart the amount of fluid emptied from the pump reservoir.

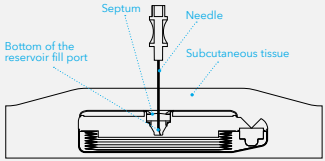
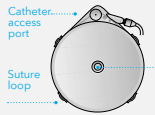



Figure 2. View inside of a SynchroMed™ programmable pump while the needle is fully and properly inserted.

## Medtronic SynchroMed™ pump descriptions

| Pump name | Model | Catheter access port? | Reservoir size |
|---|---|---|---|
| SynchroMed™ II | 8637-40 | Yes, funnel-shaped | 40 mL |
| SynchroMed™ II | 8637-20 | Yes, funnel-shaped | 20 mL |

## SynchroMed™ II pumps




**Pump dimensions**


This material does not replace or supersede the instructions for use. It should not be considered the exclusive source of information, and should be used in conjunction with the device manuals. See the device manuals for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.eu. CE0123

For applicable products, consult instructions for use on www.medtronic.com/manuals. Manuals can be viewed using a current version of any major Internet browser. For best results, use Adobe Acrobat Reader® with the browser.

If you have any questions specific to the medicinal product that you are using this device to administer, please contact the Marketing Authorisation Holder.

Medtronic provides only the intrathecal drug delivery pump and the catheter; the morphine or ziconotide is provided by an external company.

## Important information

If lost please return to one of the addresses below:

See the device manuals for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.eu. CE0123

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