

SUREFUSER™ + 50mL / 100mL / 250mL

Ambulatory balloon infuser INSTRUCTIONS FOR USE

Indications

Surefuser™ + is to be used for continuous drug infusion therapy: Post operative pain control, Carcinomatous pain control, Chemotherapy for cancer etc.

Contraindications

Oil-based medications, i.e., iodized ethyl ester of fatty acid obtained from poppy seed oil, etc., and etoposide medications and fatty emulsion medications should not be used.

Method

- 1) Medication Procedures
- Refer to the drug insert from the pharmaceutical manufacturer for information about medication procedures.
- 2.Before beginning patient infusion, make sure you thoroughly understand the infusion characteristics of Surefuser™ + being used.
- 3.We recommend using Luer Lock type syringe.
- Priming Surefuser™ + with Medication (See Figures 1-3 below)
 1.All operations must be performed under aseptic conditions.
- Fill a syringe with the medication. Completely bleed all air bubbles from the syringe.
- 3.If a syringe with needle is being used, remove the needle from the syringe.
- 4. Verify correct closing of the Robert Clamp.
- 5.Remove the port cap and fill the Balloon reservoir with the medication via the port. Filling operation must be done following the instruction, with one hand on the Protector and the other on the syringe. Pressure must be applied only on the syringe, not on Surefuser™ +. Check the port section for leaks and make sure that there is no damage in the Balloon reservoir. The use of a Filter is recommended when priming. Make sure that the syringe does not separate from the port during priming.
- NOTE: Do not apply any load on the port, just place one hand on Surefuser™ + to hold it stable (We recommend placing the syringe plunger against a tabletop when filling, as shown in Fig.2).
- 6.When the Balloon reservoir is filled with the correct liquid volume, disconnect the syringe. Replace the port cap with the occlusive cap on the port connector.
- 7.Hold the Infusion Line Filter so that the patient side is at the top. Open the Robert Clamp on the Infusion Line to prime the Infusion Line. After opening the Robert Clamp, the liquid automatically flows through the product. It is not necessary to remove all of the air from the back side of the Filter; air in the back side cannot flow to the patient side.
- 8. Verify that the medication is flowing towards the Infusion Line. If the medication is flowing from the Filter towards the Casing (Flow Control) and if there is no air in the front of the Filter, the Filter can be released.
- If the liquid does not flow through the product, tap the Casing with your finger to expel the air.
- 10.Priming is complete when all air bubbles have been bled from the Infusion Line and the liquid starts flowing from the connector.
- 11. When priming is complete, close the Infusion Line with the Robert Clamp.
- 12.If necessary, fill out the patient label with the required information and attach the label to the Protector.
- 13.Infusion should be started as soon as possible after the Balloon body has been primed.
- 3) Administering the Medication
 - Nerify that there are no air bubbles in the Infusion Line and then attach the connector to the patient's line.
- 2.Use adhesive tape, etc., to attach the Casing securely to the patient's skin.
- NOTE: If the Casing (Flow Control) is not attached securely to the patient's skin, the medication flow rate may vary from the one desired.
- 3. Open the Robert Clamp and start the medication infusion.
- 4.The scale on the balloon body does not indicate the content of the balloon in mL or in%, but can be used to know approximate infusion rate.

Fig.1 Structure

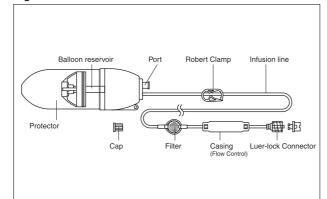


Fig.2 Operation Method

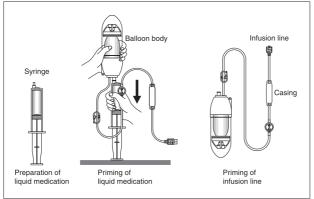
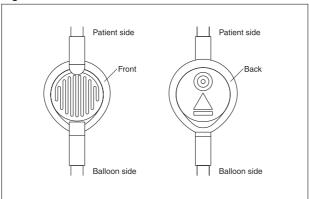


Fig.3 Infusion Line Filter



Caution

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- This is a disposable, single-use-only product that must not be resterilized and reused. Discard the product immediately after use.
 - *Reuse or reprocessing of a single use device may lead to contamination and compromised device function or structural integrity.
- Never fill the balloon reservoir beyond the specified liquid amount, doing so could cause the balloon reservoir to rupture.
- Do not apply extra load to the port when filling. Hold the Surefuser™ + upright and fill slowly. Failure to do this may cause the port to break and the contents could leak out.
- 4) Do not pull excessively on the Infusion Line; it might cause leakage or the Infusion Line to detach.
- 5) Air between the Balloon reservoir and the Filter is expelled by the Filter.

- 6) Make sure there are no bends or twists in the Infusion Line or the connected catheter. Bends and twists can cause fluctuations in the infusion rate.
- 7) Surefuser™ + is based on fluid flow rate. Therefore, the infusion rate will vary with changes in the viscosity of the medication due to density, temperature, etc. The infusion rate will also vary due to arterial pressure. Please keep these factors in mind when using Surefuser™ +.
- 8) The stated infusion rate for Surefuser™ + is based on using a physiological saline solution with the Casing (Flow Control) at a temperature of 32°C (skin temperature). In order to maintain consistent medication viscosity, the casing should be attached securely to the patient's skin using adhesive tape, etc. Infusion rate accuracy is ±10%.
- The specified priming time for Surefuser™ + is based on the use of physiological saline solution at normal temperatures.
 Additional priming time will be needed when using high-viscosity medications or when using
- Surefuser™ + at low temperatures.

 10) Before closing the Robert Clamp, verify that the Infusion Line is in the centre of the Robert Clamp. If the Robert Clamp does not clip the Infusion Line properly, the medication flow will not be stopped.
- Oil-based medications, i.e., iodized ethyl ester of fatty acid obtained from poppy seed oil, etc., and etoposide medications can cause the balloon reservoir to rupture and should not be used with Surefuser™ +.
- Do not use alcohol-containing medication on the Filter for disinfection. It could damage its hydrophobic character and could lead to leakage.
- 13) During usage, check the condition of the Surefuser™ + and Infusion Line regularly for blood clots and leakage. Pay particular attention to each connection part for breakage, leakage or weak connections.
- 14) Using fatty emulsion medications can cause the Infusion Line Filter to become clogged, so the use of such medications should be avoided.
- 15) Refer to the pharmaceutical manufacturer's drug insert for instructions on medication use and quantity.
- 16) If any abnormalities, such as balloon reservoir rupture, medication leaking into the Protector, etc., are noticed during use, discontinue use immediately.
- 17) Never use a product if its package is damaged or if any product damage or irregularities are noticed.
- Some products/medication used can cause the connecting part to be loosened or to be broken.
 (e.g. the use of alcohol on the connecting parts can cause cracks.)
- Store the product in a cool, dry place away from direct sunlight and excess humidity.

Guarantee

- 1) Surefuser™ + is manufactured under strict quality control and quality is assured. If Surefuser™ + is defective (broken package, damaged Surefuser™ +), it shall be replaced with a new one at our cost upon return of the broken package or damaged Surefuser™ +. We will not be responsible, however, for the injury to a patient or any person or for the damage to any object that is attributed to transport, storage, and operation in your institution.
- 2) If a patient or any person is injured or any object is damaged by the use of Surefuser™ +, we will not be responsible for the injury or damage unless we are clearly identified as being at fault.
- 3) If a patient or any person is injured or any object is damaged by the reuse of Surefuser™ +, we will not be responsible for the injury or damage of any nature.
- We will not be responsible for any injury or damage caused by use of Surefuser™ + after the expiry date mentioned on the packages.

Symbols used for labelling



See instruction for use



STERILE EO Sterilized with Ethylene oxide gas



LOT

Expiry date

Single use only

Lot number

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