ASEPT® Pleural Drainage System

INSTRUCTIONS FOR USE



LS-00116-01-AC 2021-07













STERILE EO





Catalog

instructions for use





WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

ASEPT® is a registered trademark of pfm medical, inc. ChloraPrep® is a registered trademark of Carefusion 2200, Inc. Tegaderm® is a registered trademark of 3M



Manufactured for: B. Braun Interventional Systems Inc. 824 Twelfth Avenue Bethlehem, PA 18018 www.bisusa.org



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Assembled and packaged in U.S.A.

Interventional Systems **B** BRAUN

Instructions for Use ASEPT® Pleural Drainage System

Contents of unopened, undamaged package are: STERILE Disposable – This device is intended for one use only. Do not reuse or resterilize. Sterilized with Ethylene Oxide.

PRODUCT DESCRIPTION:

The ASEPT® Pleural Drainage System is a tunneled, long term catheter used to drain accumulated fluid from the pleural cavity to relieve symptoms associated with pleural effusions. The catheter is implanted in the pleural cavity enabling the patient to perform intermittent pleural effusion drainage at home or in the hospital. The primary components of the system are the ASEPT® indwelling Pleural Catheter and the ASEPT® Drainage Kit. The proximal end of the indwelling catheter has a valve attached that will allow the flow of fluid only when accessed. The valve should only be connected to the ASEPT® Drainage line connected to the drainage bottle kit. The valve can be breached by the ASEPT® Pleural Drainage catheter connected to wall suction or a pleurovac or vacuum bottles. Although the ASEPT® Drainage Line, which is part of the Pleural Drainage System and also available separately, may be connected to other fluid collection equipment we strongly recommend using the ASEPT® Drainage Kit only. The ASEPT® Pleural Drainage System provides patients with a convenient way to relieve pleural effusion symptoms at home.

CATHETER REMOVAL PROCEDURE

It may be appropriate and/or necessary to remove the ASEPT® Pleural Drainage catheter. Three successive attempts to drain fluid that result in less than 50 ml of fluid removed may indicate one of the following: 1) pleurodesis has been achieved. 2) the catheter is loculated away from the fluid or, 3) the catheter is occluded.

- 1. Place the patient in an appropriate position.
- 2. Aseptically clean the patient's chest around the catheter exit site.
- 3. Anesthetize the site.
- 4. Remove the sutures.
- Using forceps, dissect around the cuff to free it from the ingrowth. Ensure that the cuff is completely free within the tunnel.
- 6. Grasp the catheter in one hand and pull with a firm constant pressure.
- 7. Cover the site as appropriate.

STERILITY:

This device has been sterilized, is for single use only, and is not to be reused. As long as the packaging remains sealed and uncompromised the contents within each package are sterile. B. Braun Interventional Systems will not be responsible for any products that are resterilized, nor accept for exchange or credit any product that has been opened but not used by the patient or purchaser.

WARRANTY: B. BRAUN INTERVENTIONAL SYSTEMS INC. WARRANTS THAT THIS PRODUCT WAS MANUFACTURED ACCORDING TO APPLICABLE STANDARDS AND SPECIFICATIONS. PATIENT CONDITION, CLINICAL TREATMENT AND PRODUCT MAINTENANCE MAY AFFECT THE PERFORMANCE OF THIS PRODUCT. USE OF THIS PRODUCT SHOULD BE IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED AND AS DIRECTED BY THE PRESCRIBING PHYSICIAN.

The ASEPT® Pleural Drainage System contains the following:

- One ASEPT® Drainage Catheter
- One CSR Wrap

TRAY 1:

- Two ChloraPrep® 10.5mL Tint
- One Synthetic Suture, 2-0 Straight Needle
- One Synthetic Suture, 3-0 Curved Needle

TRAY 2:

- Two 5cc Syringes
- One 10cc Syringe
- One 22 GA. x 1.5" Needle
- One 25 GA. x 1.0" Needle
- One 18 GA. Guidewire Introducer Needle
- One J-Tip Guidewire
- One Safety Scalpel
- One 16F Tear Away Introducer
- One 12F Dilator
- One 8F Dilator
- One Tunneler
- One Forceps

TRAY 3:

- One Fenestrated Drape
- One 16 GA. x 1.0" Needle
- One 5-in-1 Drainage Line Adapter
- One ASEPT® Drainage Line with Protective Cap
- One Foam Catheter Pad
- Six Gauze Pads 4" x 4"
- One Tegaderm® Self Adhesive Dressing

General Information and Warnings:

WARNINGS:

- Do not reuse. Intended for single patient use only. The reuse of this single-use device can affect safety, performance and effectiveness, exposing patients and staff to unnecessary risk.
- Accessing the catheter with anything other than the ASEPT® Drainage Line connector may damage the valve.
- Dispose of the used product in accordance with applicable local, state and federal regulations. Used product may present a potential biohazard.
- When using the ASEPT® Drainage Line to access the catheter, ensure that the pinch clamp is fully closed prior to connecting.
- When using the ASEPT® Drainage Line to access the catheter for drainage with equipment other then the ASEPT® Drainage Kit, the adapter that is included in the kit may be utilized.
- Use caution when using wall suction or drainage equipment other than the ASEPT® Drainage Kit. It is strongly recommended to use the ASEPT® Drainage Kit only.
- Do not pass a wire, needle or other device through the valve.
- Do not flush or attempt to clear an occluded catheter with a syringe smaller than 10 ml
- This product and its packaging have been sterilized with Ethylene Oxide.
 Ethylene Oxide is a chemical known to the State of California to cause cancer, birth defects, or reproductive harm.

INDICATION:

The ASEPT® Pleural Drainage System is intended for long term, intermittent drainage of symptomatic, recurrent, pleural effusions, including malignant pleural effusions and other pleural effusions that do not respond to treatment of the underlying disease.

CONTRAINDICATIONS:

- Known or suspected pleural cavity infections or sepsis.
- Known or suspected coagulopathy or other hemorrhagic tendency.
- Pleural cavity is multi-loculated in a way that drainage from a single location is not expected to effectively relieve symptoms, such as dyspnea and chest discomfort.
- Patient medical condition including their anatomy is insufficient to accommodate an indwelling catheter.

SUBSEQUENT DRAINAGE PROCEDURES:

Subsequent drainage procedures are to be performed using the ASEPT® Drainage Kit. Each drainage kit contains the necessary drainage line, vacuum bottle, and other necessary items to perform the drainage procedure. Standalone drainage lines with 5-in-1 adapter are also available for drainage performed by medical personnel only.

It is vital that patients and/or caregivers are carefully instructed on how to use the drainage kit to drain fluid. The person(s) responsible for drainage must be able to demonstrate that they are capable of performing the procedure.

If the patient/caregiver is not able or willing to drain the effusion at home, a medical professional should drain the effusion.

CATHETER VALVE REPLACEMENT:

In case the catheter valve becomes damaged or blocked it may be necessary to replace the valve. Make sure you have a new valve replacement kit opened and ready before changing the valve. Follow sterile technique procedures.

Clamp the ASEPT® catheter to prevent air from entering the catheter.
 Use rubber-shods in-between the forceps to prevent damage to the catheter and cut the ASEPT® catheter between the forceps and the connector.

- Using proper aseptic technique, wipe the surface of the replacement connector that will be inserted into the catheter with an alcohol pad.
- 3. Insert the valve connector all the way into the catheter tubing.

Caution: Exercise care when placing ligatures to avoid cutting or occluding the catheter.

Caution: The ASEPT® catheter valve is for drainage only! Care should be taken to ensure its proper use.

DRAINAGE PROCEDURE:

Caution: Re-expansion pulmonary edema may occur if too much fluid is removed too rapidly. Therefore, it is recommended to limit drainage to no more than 1,000 – 1,500 ml for each drainage procedure. The volume of pleural fluid removed should be based on the patient's individual status. DO NOT USE WALL SUCTION DIRECTLY.

The drainage procedure can be done using ASEPT® Drainage Kit or standard hospital drainage equipment. An adapter is included in the kit that can be attached to the drainage line. It is strongly recommended to drain with one of the ASEPT® Drainage Kits. If pleural drainage is practiced using devices other than one of the ASEPT® Drainage Kits follow procedures or refer to the Manufacturer's Instructions for Use. The ASEPT® Drainage Kits have a drainage line attached that can **only** be used with the ASEPT® Drainage Catheter.

DRAINAGE PROCEDURE USING THE DRAINAGE LINE INCLUDED IN THE KIT:

- Make sure the pinch clamp on the ASEPT® Drainage Line set is in the closed position.
- Remove the protective cap from the Luer Lock Connector, push into the valve on the end of the catheter and twist the connection to a tight fit.
- 3. Remove the protective cap from the male luer lock of the drainage line set and connect to collection equipment. If using an evacuated glass container that uses a 16Ga needle, the needle can be connected to the drainage line. If using an evacuated plastic bottle, connect the drainage line directly to the bottle. If using wall suction, use the 5 in 1 adapter to connect to the drainage line. Use extra caution when using wall suction.
- 4. Open the pinch clamp on the drainage line when ready for draining fluid.

Note: When draining fluid with the ASEPT® Drainage Kit carefully read and refer to the Instructions for Use included with every case of Drainage Kits.

8

CONTRAINDICATIONS: (continued)

- Dyspnea developed by other medical conditions is irrelevant to pleural effusion.
- Patient is known or suspected to be allergic to materials contained in the device.
- Patient has a medical history or symptom palliation failure by pleural drainage.
- The effusion is known to be chylous.
- There is a shift of greater than or equal to 2 cm in the mediastinum towards the ipsilateral side of the effusion.

PRECAUTIONS:

- Federal (USA) law restricts this device to sale by or on the order of a physician.
- Carefully read and follow instructions prior to using this device. Refer to
 enclosed instructions for use for ChloraPrep®.
- Insertion or removal of this device is only to be done by qualified health professionals.
- Sterile technique should be used when placing and draining the catheter.
- Sterilized by Ethylene Oxide. Do not resterilize.
- Exercise care when placing the catheter to prevent it from coming into contact with surfaces such as drapes or towels. Silicone rubber is highly electrostatic and attracts airborne particles and surface contaminants.
- Care must be taken when inserting the guidewire needle (commonly referred to as "Seldinger needle") to avoid puncturing or lacerating intra-abdominal organs.
- Exercise care when placing ligatures to avoid cutting or occluding the catheter.
- Use rubber-shod instruments when handling the catheter. Possible cuts or tears can occur if rubber-shod instruments are not used.
- Re-expansion pulmonary edema may occur if too much fluid is removed too rapidly. Therefore, it is recommended to limit drainage to no more than 1,000 1,500 ml. The volume of pleural fluid removed should be based on the patient's individual status.

APPLICATION:

Suggested Catheter Placement Procedure

Before beginning this procedure, read the 'Contraindications, Warnings and Precautions' sections of this manual. Proper procedures are the responsibility of the physician. The appropriateness of any procedure must be based upon good medical judgment and the needs of the patient. The following placement procedure should be used as general guideline only; actual procedures may differ and are the responsibility of the physician.

- 1. Place the patient appropriately to access the desired catheter insertion site.
- 2. Identify the appropriate interspace through which to place the catheter. The catheter is typically placed in the mid axillary line.
- 3. Aseptically clean all around the planned insertion site.
- Place the fenestrated drape with the opening located over the planned insertion and tunneling sites.
- 5. Proceed with local anesthesia. Aspirate Lidocaine HCl 1% into a small syringe with a 25 Ga. needle and raise a skin wheal. Attach the 22 Ga. needle to the large syringe aspirating additional Lidocaine to complete infiltration of the access site and tunnel track.
- Insert the guidewire needle (Commonly referred to as "Seldinger Needle") attached to a small syringe through the desired interspace and just over the lower rib. Ensure free aspiration of pleural fluid. Remove the syringe, leaving the guidewire needle in place.

Caution: Care must be taken when inserting the needle to avoid puncturing the heart, lung, liver or abdominal organs.

- Leaving the guidewire needle in place, insert the guidewire through the needle, advancing it into the pleural cavity. Ensure that no resistance is encountered.
- 8. Remove the guidewire needle. Leave the guidewire in place.
- 9. Make a 1 cm incision at the guidewire insertion site.
- 10. Make a 1-2 cm incision approximately 5 cm away from the first incision site.
- Remove the protective tubing on the tunneler and attach the fenestrated end
 of the catheter onto the tunneler.

Caution: Exercise care when placing the catheter to prevent the catheter from coming into contact with non-sterile surfaces or particles. Silicone rubber is highly electrostatic and attracts airborne particles and surface contaminants.

Caution: Use rubber-shod instruments when handling the catheter. Possible cuts or tears can occur if rubber-shod instruments are not being used.

APPLICATION: (continued)

12. Pass the tunneler and the catheter subcutaneously from the second incision through and out through the incision at the guidewire insertion site. Continue to draw the catheter through the tunnel until the polyester cuff passes about 1 cm beyond the second incision. Remove the tunneler from the catheter.

Note: If the cuff is advanced further into the tunnel, it can make later removal of the catheter difficult.

Note: An 8F and a 12F Dilator are included in the kit that can be used to dilate the insertion site over the guidewire prior to using the 16F Dilator with sheath.

13. Pass the 16F dilator with sheath over the guidewire and into the pleural space.

Caution: Avoid excessive manipulation of the sheath when the dilator is not inserted. Do not kink the sheath as it may make it difficult to pass the catheter through.

Caution: Prevent air from entering the pleural space by placing your thumb over the end of the sheath.

- 14. Remove the guidewire and dilator from the sheath leaving the sheath in place.
- 15. Insert the fenestrated end of the catheter into the sheath advancing it until all the fenestrations are within the pleural space. This can be verified under fluoroscopy as fenestrations are located along the barium stripe.
- 16. Peel away the sheath, taking care to keep the catheter in place within the pleural space. Adjust the catheter so that it lies flat in the tunnel and has no kinks as it passes into and through the interspace.

Caution: Do not use forceps on the sheath to break its handle and/or peel the sheath.

- 17. Close the incision at the initial insertion site.
- 18. Close the second incision site and suture the catheter to the skin without restricting the diameter of the catheter.
- 19. If needed, proceed with the drainage procedure via the drainage line included in this kit (see instructions in the following section) or with one of the ASEPT® Drainage Kits.
- Place the soft, foam catheter pad around the catheter. Wind the catheter on top of the foam pad, cover with gauze pads and secure to the patient with the self adhesive dressing.