

Help your patients manage recurrent pleural effusions and malignant ascites at home.

The PleurX™ catheter system is the easy-to-use and effective choice for managing recurrent pleural effusions and malignant ascites at home. The system includes an indwelling catheter and vacuum bottles that provide quick, effective drainage—without draining unnecessary time, costs and energy.

The PleurX catheter system includes a comprehensive portfolio of products to support:

- Catheter placement and maintenance

- Patient education and training
- Safe and effective drainage



The PleurX™ catheter system

Global product offering

Why choose the PleurX catheter system for your patients?

The PleurX catheter system helps your patients take control by enabling them to manage fluid from pleural effusions or malignant ascites at home

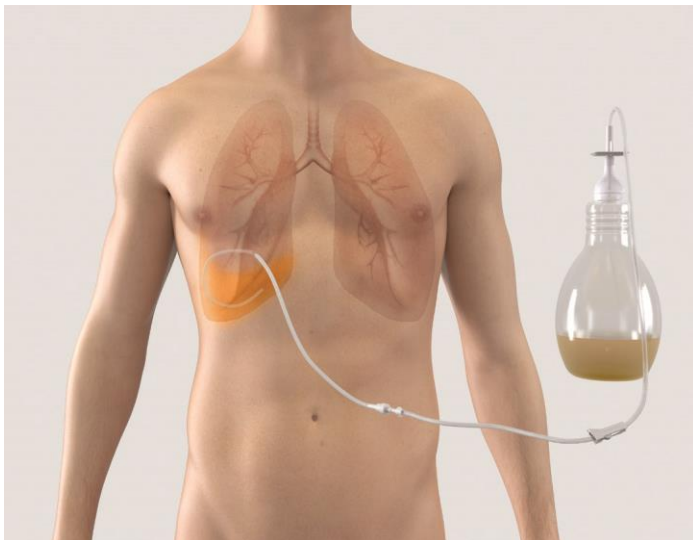
Proven solution

- Has been used to treat more than 300,000 patients since 1997
- Has been referenced in more than 35 peer-reviewed journal articles
- Reports a documented < 3% infection rate and < 5% occlusion rate¹
- Indicated for spontaneous pleurodesis (*46% of patients achieve spontaneous pleurodesis at a median of 26.5 days²*)

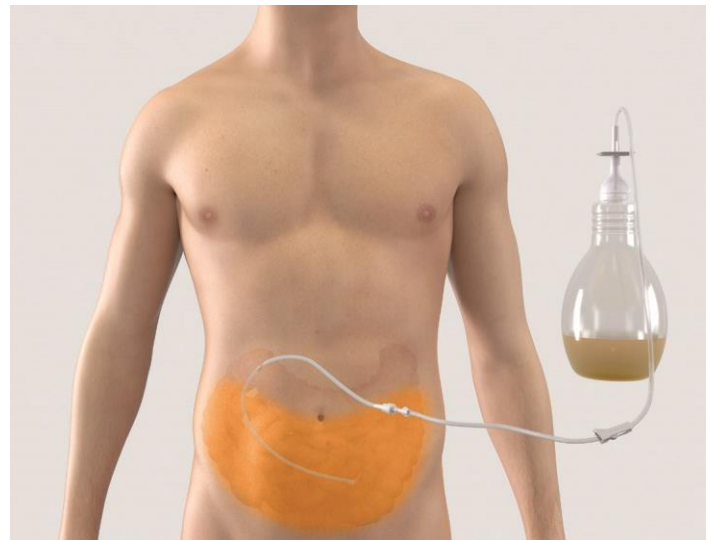
- Includes a proprietary valve to help reduce the risk of misconnections
- Promotes safe and effective drainage with active vacuum technology

Patient focus

- Compliance and clinical acceptance of the PleurX catheter is extremely high among patients³
- Helps eliminate hospital visits for repeat thoracentesis or paracentesis



The PleurX pleural catheter system



The PleurX peritoneal catheter system

New indication

The PleurX pleural catheter can be used in place of a chest tube for talc pleurodesis, giving you an additional treatment option

- Decreased hospital days: Patients may return home within 24 hours after instillation (*at the discretion of a physician*) rather than stay in the hospital for days draining from a chest tube.

- Convenient outpatient drainage: Patients drain the effusion at home (*per the PleurX Instructions for Use*) until pleurodesis occurs.
- Backup for failed pleurodesis: With chest tubes, pleurodesis procedures fail up to 28% of the time.* Using the PleurX catheter provides a backup with no need for reintervention because the catheter is already in place for drainage.
- Greater patient comfort: With a smaller incision and soft, flexible catheter, the PleurX catheter system offers a gentle alternative to a large, stiff chest tube.
- Support of Quality of Care goals: Using the PleurX catheter can foster patient satisfaction—and the goal of getting and keeping patients out of the hospital.

The benefits of administering talc slurry through the PleurX catheter in an outpatient setting are further detailed in a clinical article from *CHEST*.

Talc pleurodesis through indwelling pleural catheters for malignant pleural effusions: retrospective case series of a novel clinical pathway

Ahmed L, Ip H, Rao D, Patel N, Noorzad F.

Abstract

Malignant pleural effusions cause significant morbidity, but there is no gold-standard, minimally invasive treatment. A new therapeutic approach combines talc pleurodesis and IPCs to enable outpatient management. This case series summarizes the safety and efficacy data of all patients (24) with a symptomatic malignant pleural effusion who underwent talc pleurodeses via IPCs between December 2010 and July 2013. Successful pleurodesis was achieved in 22 procedures (92%). There was one empyema, one hydropneumothorax, one recurrent effusion and two minor complications: one drain site wound infection and one complaint of chest pain. Twenty-two procedures (92%) were performed in the outpatient setting. This report confirms the safety and efficacy of administering talc slurry through IPCs in an outpatient setting. Studies in a larger cohort are necessary to define the role of this novel approach in the treatment algorithm of patients with this condition.

Ahmed L, Ip H, Rao D, Patel N, Noorzad F. Talc pleurodesis through indwelling pleural catheters for malignant pleural effusions: retrospective case series of a novel clinical pathway. *Chest*. 2014;146(6):e190–194. doi: 10.1378/chest.14-0394.

* Dresler CM, Olak J, Herndon JE II, et al. Phase III intergroup study of talc poudrage vs talc slurry sclerosis for malignant pleural effusion. *Chest*. 2005;127(3):909–915.

The PleurX catheter system

Vacuum bottle

Active vacuum technology drains quickly and comfortably without the need for gravity. Bottles are available in 500 mL and 1,000 mL sizes.

Proprietary safety valve

The valve helps prevent inadvertent passage of air or fluid through the catheter. It also helps to reduce the risk of misconnection that may occur with a standard luer connection.

Fenestrations

Large, smooth fenestrations promote drainage and help prevent occlusions.

Polyester cuff

This promotes tissue ingrowth to help reduce infection risk and hold the catheter securely in place.

Roller clamp

The roller clamp provides easy control of drainage flow for optimal comfort.

15.5 Fr Silicone catheter

Soft and flexible catheter conforms to the pleural or peritoneal space and minimizes insertion-site discomfort.

Ordering information

Cat. no.	Description	Qty. (cs.)
50-7050	PleurX pleural catheter mini kit	1
50-9050	PleurX peritoneal catheter mini kit	1
50-7500B	PleurX drainage kit with 500 mL vacuum bottle	10
50-7510	PleurX drainage kit with 1,000 mL vacuum bottle	10

50-7205B	500 mL vacuum bottle with drainage line	10
50-7210	1,000 mL vacuum bottle with drainage line	10
50-7235	PleurX replacement valve cap	10
50-7245	PleurX lockable drainage line	10
50-7265	PleurX lockable drainage line kit	5
50-7262	PleurX supplemental insertion kit	5
50-7280	PleurX catheter access kit	5
50-7290	PleurX procedure pack	5

Catheter placement kits and accessories

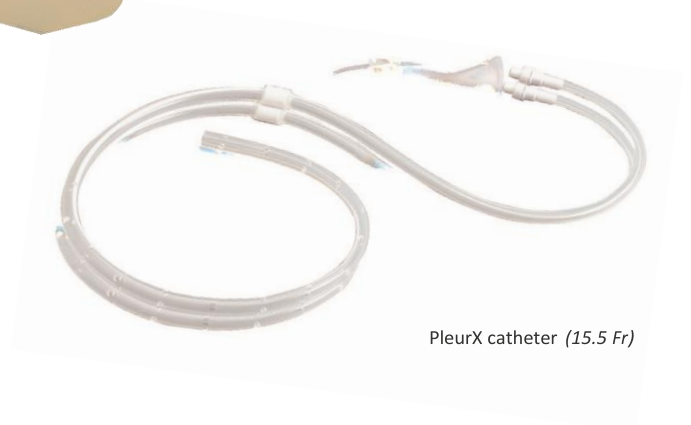
PleurX catheter mini kits 50-7050 and 50-9050

The PleurX catheter mini kits contain the components needed for catheter placement and initial drainage.

Placement components	Drainage components	Dressing components
<ul style="list-style-type: none"> • PleurX catheter (15.5 Fr) <ul style="list-style-type: none"> – 66 cm (<i>pleural</i>) – 71 cm (<i>peritoneal</i>) • Guidewire introducer with needle • Syringe, 10 mL • J-tip guidewire, 60 cm • Peel-away introducer, 16 Fr <ul style="list-style-type: none"> – 13.7 cm dilator length, 10 cm sheath length (<i>pleural</i>) – 17.8 cm dilator length, 14 cm sheath length (<i>peritoneal</i>) • Tunneler • Needle foam stop 	<ul style="list-style-type: none"> • Lockable drainage line with access tip • Needle, 17 G x 1" (2.5 cm) • 5-in-1 drainage line adapter • Valve cap 	<ul style="list-style-type: none"> • Gauze pads, 4" x 4" (10.2 cm x 10.2 cm, qty. 6) • Foam catheter pad • Self-adhesive dressing • Lot number sticker (<i>for traceability</i>)



PleurX pleural catheter mini kit 50-7050



PleurX catheter (15.5 Fr)

PleurX supplemental insertion kit 50-7262

The supplemental insertion kit aids percutaneous insertion of the PleurX catheter into the pleural or peritoneal space. The orange stylet occludes the fenestrations in the catheter, helping reduce the amount of fluid leakage during catheter placement. The stylet also makes the catheter more rigid for ease of insertion into the valved introducer. The valved introducer helps reduce air entering into and fluid leaking from the pleural or peritoneal space.

Insertion kit components

- Catheter insertion stylet
- Valved peel-away introducer

Valved peel-away introducer

Catheter insertion stylet



Shown with catheter. Catheter not included.

PleurX catheter access kit 50-7280

Fluid samples can help diagnose a complex problem. The PleurX catheter access kit is designed to aspirate a sterile fluid sample directly through the catheter. The catheter access kit is also designed to allow catheter flushing,

perform routine maintenance and administer a sclerosing agent for pleurodesis.

Catheter access kit components

- Syringe, 10 mL
- Lockable access tip with needleless access valve
- Blue wrapping
- Valve cap
- Alcohol pads (qty. 2)
- Blue emergency slide clamp



Catheter access kit assembled with catheter. Catheter not included.

Drainage kits and accessories

PleurX drainage kit 50-7500B (500 mL) and 50-7510 (1,000 mL)

The PleurX drainage kit includes the components needed each time the patient drains fluid. Each drainage kit (50-7500B and 50-7510) contains a 500 mL or 1,000 mL vacuum bottle with an attached drainage line and a procedure pack with the

Procedure pack components

- Blue wrapping
- Alcohol pads (qty. 3)
- Pair of gloves
- Valve cap
- Blue emergency slide clamp
- Gauze pads, 4" x 4" (10.2 cm x 10.2 cm, qty. 4)
- Foam catheter pad
- Self-adhesive dressing



PleurX drainage kit 50-7500B (500 mL) and 50-7510 (1,000 mL)

The PleurX procedure pack allows patients to change dressings with a clean technique and sterile supplies

Procedure pack components

- Blue wrapping
- Alcohol pads (qty. 3)
- Pair of gloves
- Valve cap
- Blue emergency slide clamp
- Gauze pads, 4" x 4" (10.2 cm x 10.2 cm, qty. 4)
- Foam catheter pad
- Self-adhesive dressing

components listed below.



PleurX procedure pack 50-7290

Vacuum bottle is included in the PleurX drainage kit.

PleurX procedure pack 50-7290

even when they do not need to drain.

PleurX lockable drainage line kit 50-7265

The PleurX lockable drainage line drains fluid through the PleurX catheter using portable or wall suction instead of PleurX vacuum bottles. The lockable drainage line is available separately or in a convenient kit with procedure pack components. The procedure pack provides the components necessary to change the dressing with a clean technique and sterile supplies. The lockable drainage line 50-7245 includes the drainage line and 5-in-1 adapter only.



Lockable drainage line kit components

- Lockable drainage line
- Gauze pads, 4" x 4"
- 5-in-1 adapter (10.2 cm x 10.2 cm, qty. 4)
- Blue wrapping
- Foam catheter pad
- Alcohol pads (qty. 4)
- Self-adhesive dressing
- Pair of gloves
- Blue emergency slide clamp
- Valve cap

Lockable drainage line also available separately (50-7245)

PleurX replacement valve cap 50-7235

The PleurX valve cap helps protect the catheter from contamination and maintain a clean drainage pathway. A valve cap is included in the PleurX drainage kit and should be replaced each time the patient drains. The cap is also available separately (50-7235) in case additional replacements are needed.



The PleurX catheter system has been referenced in more than 35 peer-reviewed journal articles, including:

- 1 Warren WH, Kim AW, Liptay MJ. Identification of clinical factors predicting PleurX catheter removal in patients treated for malignant pleural effusion. *Eur J Cardiothorac Surg*. 2008;33(1):89–94.
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- 13 Freeman R, Ascoti A, Dake M, Mahidhara RS. A propensity-matched comparison of pleurodesis or tunneled pleural catheter for heart failure patients with recurrent pleural effusion. *Ann Thorac Surg*. 2014;97(6):1872–1876. doi: 10.1016/j.athoracsur.2014.02.027.
- 14 Ost DE, Jimenez CA, Lei X, et al. Quality-adjusted survival following treatment of malignant pleural effusions with indwelling pleural catheters. *CHEST*. 2014;145(6):1347–1356. doi: 10.1378/chest.13-1908.
- 15 Lungren MP, Kim CY, Steward JK, Smith TP, Miller MJ. Tunneled peritoneal drainage catheter placement for refractory ascites: single-center experience in 188 patients. *J Vasc Interv Radiol*. 2013;24(9):1303–1308. doi: 10.1016/j.jvir.2013.05.042.
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- 29 Sioris T, Sihvo E, Salo J, Räsänen J, Knuutila A. Long-term indwelling pleural catheter (PleurX) for malignant pleural effusion unsuitable for talc pleurodesis. *Eur J Surg Oncol*. 2009;35(5):546–551. doi: 10.1016/j.ejso.2008.06.009.
- 30 Bazerbashi S, Villaquiran J, Awan MY, Unsworth-White MJ, Rahamim J, Marchbank A. Ambulatory intercostal drainage for the management of malignant pleural effusion: a single center experience. *Ann Surg Oncol*. 2009;16(12):3482–3487. doi: 10.1245/s10434-009-0691-2.
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