

A kink-resistant fine pleural drainage catheter with plastic spiral-reinforcement



INDICATIONS AND INCIDENCE

Pleural effusions can be caused by various conditions, including infections (e.g., bacterial pneumonia), heart failure, cancer, pulmonary embolism, and liver or kidney disease.^{1,3} In Germany, the annual incidence of pleural effusion is estimated to be between 400,000 and 500,000 cases.¹ The one-year mortality rate for non-malignant pleural effusions ranges from 25% to 57%.⁵

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TRACOE

Tracoe Pleural Drainage Set with
Advanced Drainage Catheter

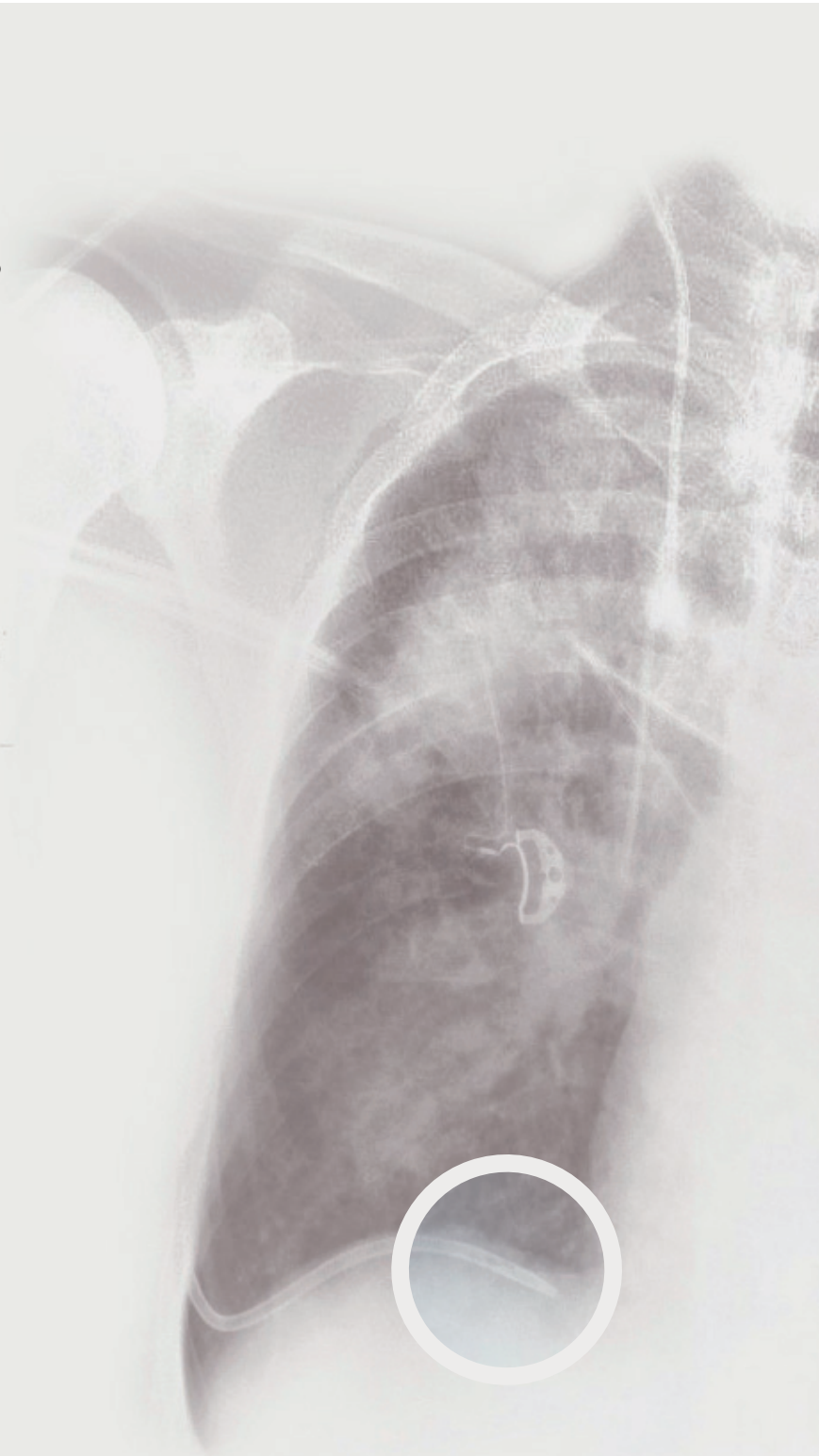
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Innovative, minimally invasive and patient friendly

OVERVIEW OF PLEURAL DRAINAGE

Pleural drainage is a medical procedure used to remove excess fluid from the pleural space, the area between the lungs and the chest wall. This fluid buildup, known as pleural effusion, can cause difficulty breathing, pain and discomfort. The procedure is typically performed using a needle and catheter to drain the fluid, which can then be analyzed to diagnose the underlying cause or to relieve symptoms.¹⁻³

Small-bore chest tubes (≤ 14 Fr) are generally recommended as the first-line therapy for spontaneous pneumothorax in non-ventilated patients and for pleural effusions in general.²



INNOVATIVE

During the course of treatment, a possible complication that may compromise the procedure is kinking of the tube, resulting in an obstructed flow.^{3,6,7} Cutting-edge plastics technology now makes it possible to produce very flexible drainage catheters that are soft, but resistant to kinking and torsion. The risk of obstruction is thereby reduced.⁶

- Drainage catheters (12 Fr & 4 Fr) – suitable for most indications^{6,8}**
- Plastic spiral: kink-/torsion-resistant, yet soft and flexible – adapts to pleural space
 - Extra-soft catheter tip with three offset openings. Secretions can drain even when just one opening is in contact
 - Clear depth markings at 5, 10, 15 and 20 cm
 - Radiopaque along its entire length and MR safe
 - For all serous, haemorrhagic serous or haemorrhagic pleural effusions or to relieve a pneumothorax
- Sustainably minimally traumatic**
- Reduced tissue irritation thanks to the fine chest drain
 - Less fibrin coating and reactive effusion
 - Reduces the area of scar formation, which could lead to pleural thickening and subsequent respiratory impairment^{3,4,6}

MINIMALLY INVASIVE

As with all invasive procedures, complications such as injury to intercostal nerves, vessels, or intrathoracic organs may occur.⁶ Using the Seldinger technique under ultrasound guidance helps prevent such complications.² In cases of pneumothorax, puncture site and direction are determined by chest X-ray or CT.^{6,7}

- Tuohy puncture needle**
- Minimizes the risk of injuring the intercostal vessels
 - Markings on the needle show the depth of the puncture
- Dilation using the Seldinger technique**
- The Seldinger wire has a nitinol core that is resistant to kinking
 - No kinking of the guide wire, even when it is hard to advance or in dilation is difficult
 - The coating makes it easier to advance the wire through the Tuohy puncture needle
 - Practical advancement of the wire from its dispenser using the thumb
 - Dilator to match the size of the catheter used (12 Fr and 14 Fr)

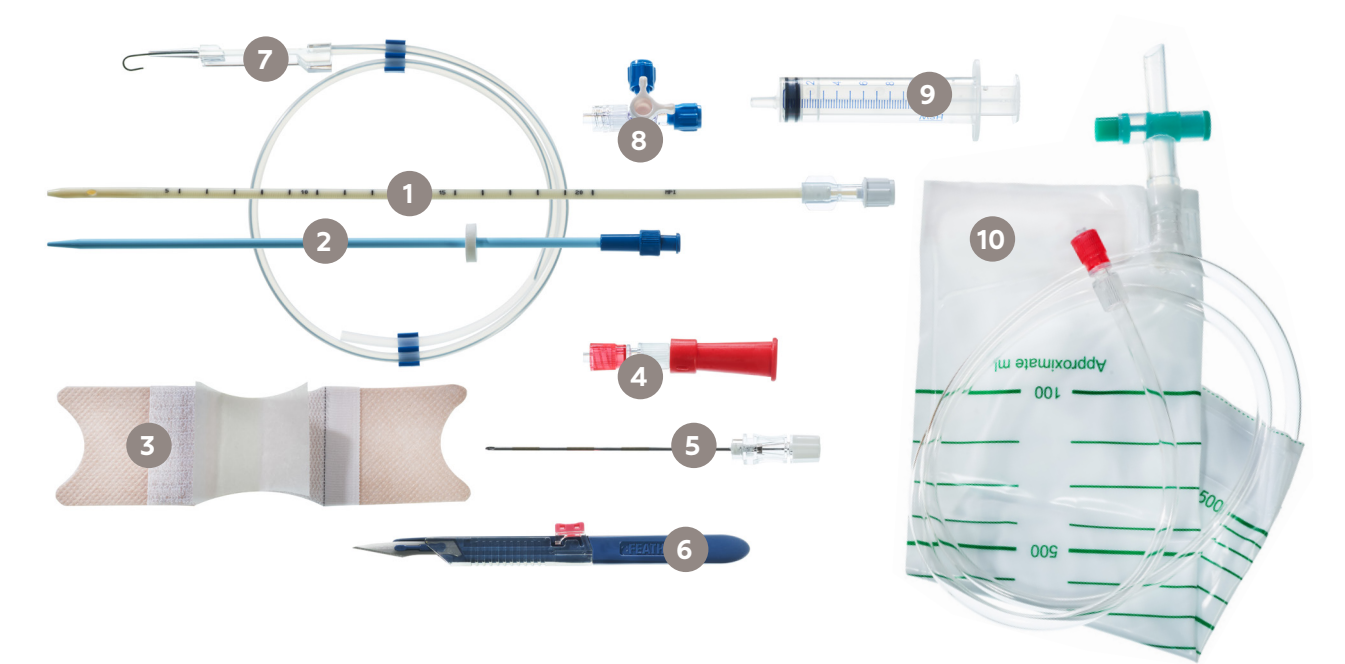
PATIENT FRIENDLY

The insertion of a pleural (chest) drainage is a frequently performed invasive measure. The procedure alleviates the symptoms and brings relief to the patient.

- Can remain in situ for up to 28 days**
- Prolonged effusion over several days can be safely and reliably treated with a single drain
 - The catheter’s resistance to kinking ensures a patent lumen, good flow and unobstructed drainage
 - Sterile irrigation is possible at any time via a three-way stopcock
- Dual use**
- Can be used for gravity drainage or with a chest drainage system
 - For gravity drainage, there is a secure connection to the collecting bag via a Luer lock
 - Adapter for connection to a chest drainage system is supplied

Contents of set

REF 850



- 1 Drainage catheter with mandrin (12 Fr or 14 Fr), radiopaque, kink-resistant thanks to the plastic spiral, MR safe, Luer lock connection
- 2 Dilator with depth stop (12 Fr or 14 Fr)
- 3 Adhesive plaster for fixation
- 4 Adapter from Luer lock to funnel connector
- 5 Tuohy puncture needle (1.2 x 1.5 x 90 mm, 17 gauge)
- 6 No. 11 disposable safety scalpel
- 7 Coated Seldinger guide wire with nitinol core
- 8 3-way stopcock
- 9 10 mL syringe
- 10 Secretion bag (1.5 L) with Luer lock

REF 851



REF 852



Ref.no	Product name	Qty
REF 850-12-5	Tracoe Pleural Drainage Set with Drainage catheter size 12 Fr	5 sets / individually sterile packed
REF 850-14-5	Tracoe Pleural Drainage Set with Drainage catheter size 14 Fr	5 sets / individually sterile packed
REF 851	Tracoe Pleural Drainage Set Accessory Set incl. adhesive plaster for fixation, adapter from Luer lock to funnel connector, secretion bag (1.5 L) with Luer lock	15 pcs
REF 852	Tracoe Pleural Drainage Set Connector Adapter from Luer lock to funnel connector	20 pcs