

PleurX™/PeritX™ Catheters

Intermittent Pleural & Peritoneal Drains

Purpose

PleurX™ / PeritX™ catheters are tubes inserted into the pleural space (around the lungs) or the peritoneal space (abdomen). These permanent catheters drain the accumulation of pleural or peritoneal fluid that causes symptoms of shortness of breath and discomfort.^{3,5,10,15}

They are accessed **intermittently** with PleurX™ / PeritX™ - compatible vacuum bottles and accessories.^{3, 15, 16, 17, 22, 23}

The catheter lines are covered with a cap and dressing when not in use, making it a comfortable and convenient option for people at home.

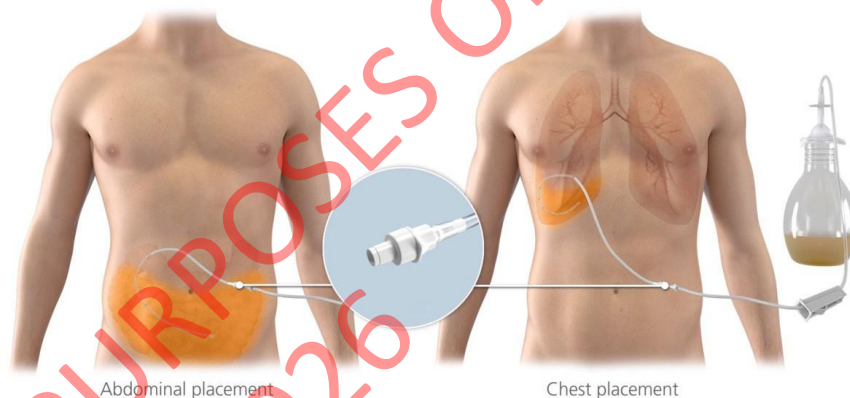


Figure 1. PleurX™ / PeritX™ Drainage Systems. Image used with permission from Becton, Dickinson and Company.

Catheter

- Provide palliation, improved quality of life, and functional status of patients^{2, 8, 13, 15, 16, 23}
- Access point only for administration of talc for chemical pleurodesis or tissue plasminogen activator (tPA) for catheter blockages
- User-friendly potential for outpatient management at home^{11, 16, 17, 22}
- Reduce the burden of repeat thoracentesis and paracentesis^{4, 8, 9, 13, 15}
- Reduce the risk of infection, dehydration, protein depletion, hypotension, electrolyte imbalances, and repeat hospitalization^{3, 15}
- Must be kept clean and dry by covering with waterproof dressing. Will require dressing change after wet¹



Figure 2. PleurX™ / PeritX™ Drainage Systems. Image used with permission from Becton, Dickinson and company.

NOTE: The PleurX™/ PeritX™ catheter is the only intermittent catheter brand. The PleurX™/ PeritX™- compatible closed, high-negative pressure vacuum bottles may vary by brand.

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References

1. Peter MacCallum Cancer Centre. Management of PleurX Drainage Catheter System: Clinical Guideline [Internet]. Melbourne (AU): Peter MacCallum Cancer Centre; [date unknown; cited 2025 Oct 28]. CareFusion. PleurX Catheter System Catalog [Internet]. 2015. Available from: https://www.iskushealth.com/wp-content/uploads/2021/12/IS_PleurX-Catheter-System_CT_EN.pdf
2. CareFusion. PleurX Pleural Catheter Kit: Instructions for Use. 2015.
3. Koegelenberg CFN, Shaw JA, Irusen EM, Lee YCG. Contemporary best practice in the management of malignant pleural effusion. *Therapeutic Advances in Respiratory Disease*. 2018;12. doi:10.1177/1753466618785098 <https://doi.org/10.1177/1753466618785098>
4. Raman T, Meena N. A single institution experience for the management of recurrent pleural effusions with tunneled pleural catheter and its evolution. *Therapeutic Advances in Respiratory Disease*. 2017;11(9):343-352. doi:10.1177/1753465817721146
5. Brubacher S, Gobel BH. Use of the PleurX® pleural catheter for the management of malignant pleural effusions. *Clin J Oncol Nurs*. 2003;7(1):35-8. doi:10.1188/03.CJON.35-38
8. CareFusion. 2015. Pleurx catheter system catalogue. [//www.iskushealth.com/wp-content/uploads/2021/12/IS_PleurX-Catheter-System_CT_EN.pdf](https://www.iskushealth.com/wp-content/uploads/2021/12/IS_PleurX-Catheter-System_CT_EN.pdf)
9. CareFusion. Catheter Access Kit: For Use with the PleurX or PeritX Catheter Systems. Instructions for Use. 2020.
10. CareFusion. PleurX Valve Kit: Instructions for Use. 2017.
11. Robinson C, Constantine L, Hanson D. Managing indwelling pleural catheter in adults at the end of life. *CINAHL Nursing Guide* [Internet]. 2024 Aug 29. Available from: <http://shal.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=nup&AN=T1720030014453&site=nup-live&scope=site>
13. Narayanan G, Pezeshkmehr A, Venkat S, Guerrero G, Barbary K. Safety and efficacy of the PleurX catheter for the treatment of malignant ascites. *J Palliat Med*. 2014;17(8):842-9. <https://doi.org/10.1089/jpm.2013.0427>
15. Yarbro CH, Wujcik D, Gobel BH. *Cancer Nursing* [Internet]. Burlington (MA): Jones & Bartlett Learning; 2018 [cited 2025 May 1]. 2172 p. Available from: http://shal.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=nlebk&AN=1089665&site=nup-live&scope=site&ebv=EB&ppid=pp_994
16. Petzold G, Bremer SCB, Heuschert FC, Treiber H, Ellenrieder V, Kunsch S, Neesse A. Tunnelled peritoneal catheter for malignant ascites—an open-label, prospective, observational trial. *Cancers (Basel)*. 2021;13(12):2926. <https://doi.org/10.3390/cancers13122926>
17. White J, Carolan-Rees G. PleurX peritoneal catheter drainage system for vacuum-assisted drainage of treatment-resistant, recurrent malignant ascites: a NICE medical technology guidance. *Appl Health Econ Health Policy*. 2012;10(5):299-308. <https://doi.org/10.1007/s40258-012-0029-9>
22. DynamicHealth. Assisting with Pleural Catheter Insertion [Internet]. EBSCO Information Services; [cited 2025 May 29]. Available from: <https://www.dynahealth.com/nursing-skills/assisting-with-pleural-catheter-insertion>
23. Alraiyes AH, Harris K, Gildea TR. When should an indwelling pleural catheter be considered for malignant pleural effusion. *Cleve Clin J Med*. 2016 Dec 1;83(12):891-

Non-Cited Bibliography

1. Becton, Dickinson and Company [Internet]. Mississauga, ON.; BD; 2025 [cited 2025 Oct 29]. Available <https://www.bd.com/en-ca>



Healthy People, Healthy Saskatchewan

The Saskatchewan Health Authority works in the spirit of truth and reconciliation, acknowledging Saskatchewan as the traditional territory of First Nations and Métis People.



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