



BD Saf-T-Intima™ Safety System

For subcutaneous and intravenous (IV) infusion therapy†

BD Saf-T-Intima™ Closed IV Catheter System is suitable for use at many subcutaneous sites. This brochure focuses on the subcutaneous application.

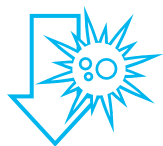
†The use of the BD Saf-T-Intima™ Safety System for subcutaneous applications is specific to certain catalogue numbers only.



Subcutaneous application may be an effective alternative to IV therapy

Subcutaneous infusion therapy, also called hypodermoclysis, is widely used in therapies to **support paediatric and geriatric patients, palliative care and post-operative pain relief**.¹² In certain clinical situations where IV access is not required, possible or practical, subcutaneous access can be a safe alternative, for drugs indicated for subcutaneous application.^{3,4}

Its benefits compared to IV therapy include:



Lower risk of complications^{5,6}



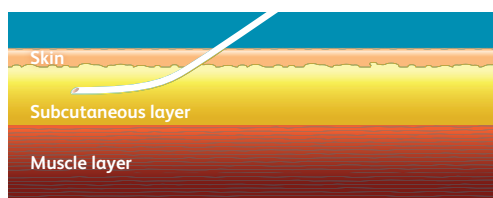
Improved patient comfort^{3,6}



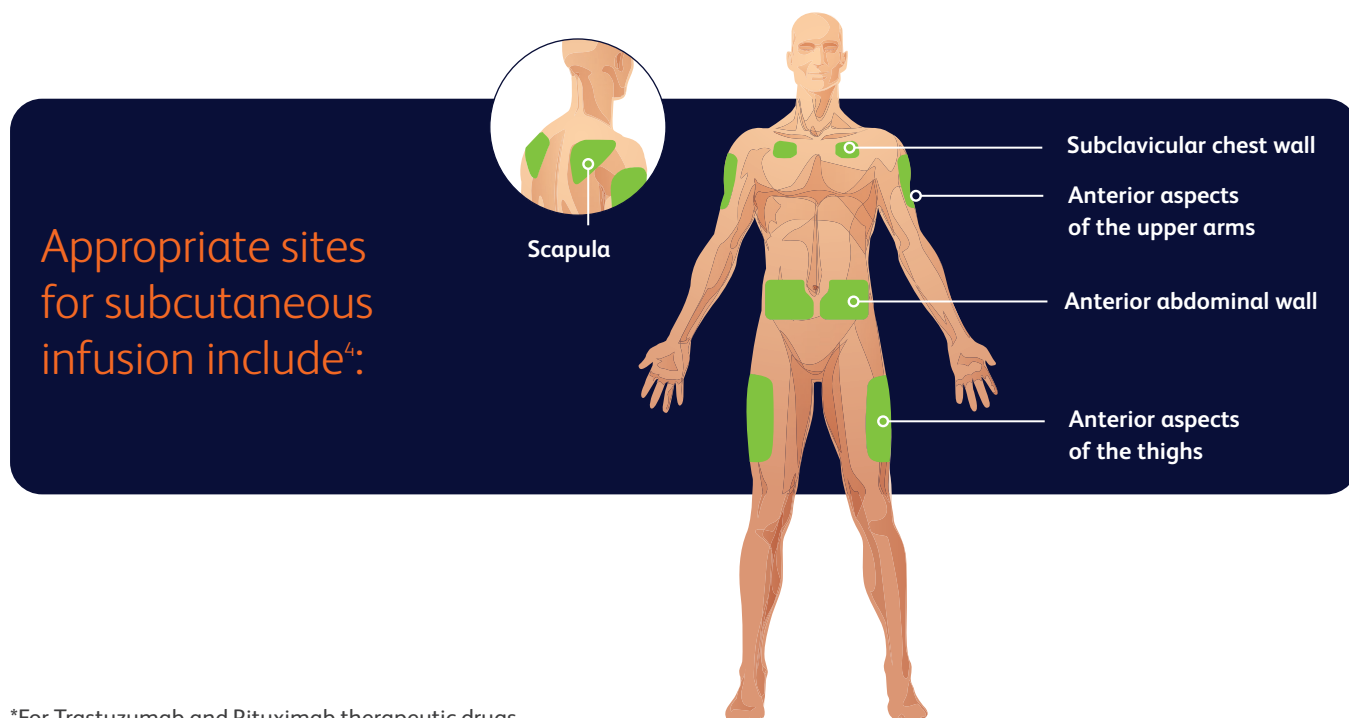
Easy to insert and maintain^{3,5,6}



Subcutaneous delivery of therapeutic drugs* has shown to be more cost effective^{1,7,8}



Medication and fluids are readily absorbed by an extensive network of the lymphatic and blood vessels **within the subcutaneous tissues**.⁴



*For Trastuzumab and Rituximab therapeutic drugs.

The BD Saf-T-Intima™ Safety System

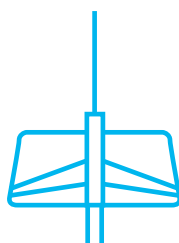
Designed to help optimize subcutaneous
therapy^{‡,9,10,11} for patients and clinicians



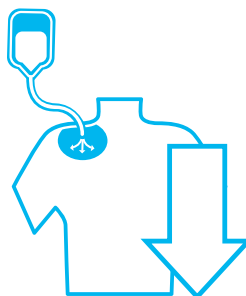
Proprietary BD Vialon™ Catheter
Biomaterial enables longer
dwell times^{9,10}



Reduce the risk of needlestick injuries¹¹



Wings for assisting with insertion
and for catheter securement¹¹



Reduce the risk of touch contamination
and accidental disconnections, thanks
to its integrated extension set design¹¹

*Compared to an FEP (Fluorinated Ethylene Propylene) catheter.

‡Compared to use of steel wing needle alternatives for subcutaneous access.

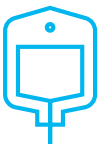
For pain management, medication delivery and rehydration therapy



Subcutaneous administration of **medication via indwelling devices** can be a common practice in palliative, geriatric and post-operative care settings.¹²



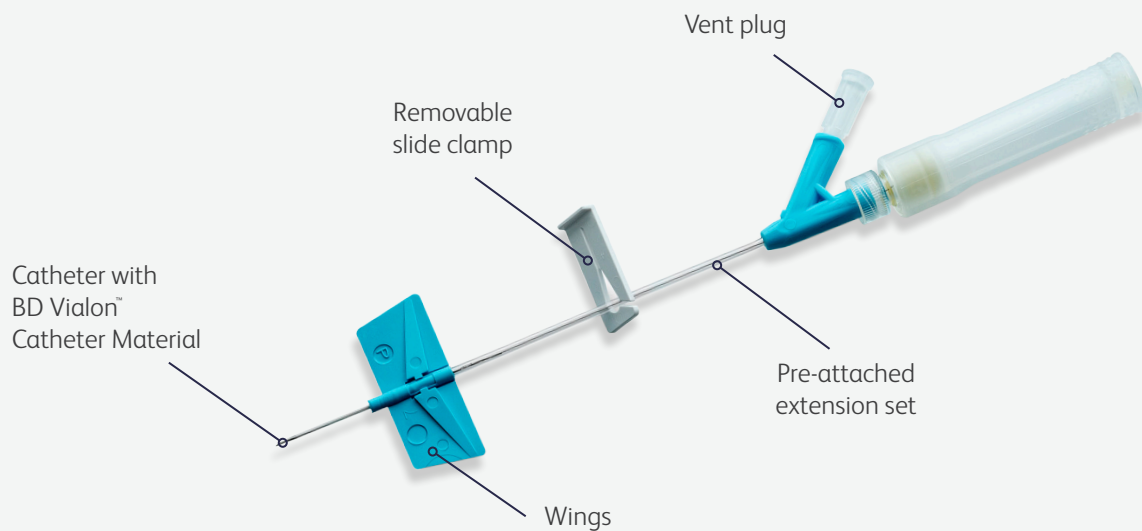
Broad applications can include **opioids, nonvesicant antineoplastic agents**, certain antibiotics, monoclonal **antibodies**, endocrine medications, gastrointestinal **medications** and other medications such as midazolam and furosemide.¹²



Traditional routes for rehydration, such as oral, enteral or intravenous may not always be possible or feasible for patients who have difficult access or fragile veins, or if they are experiencing situations of cognitive impairment, confusion or agitation; or vomiting and nausea.^{3,13} Hypodermoclysis can offer a **convenient and accessible alternative to maintain hydration** in mildly to moderately dehydrated patients.³



We are here to support you with the usage of BD Saf-T-Intima™ Safety System



BD Catalogue Number - Y Adapter	BD Catalogue Number - Straight	Description	Subcutaneous application	Intravenous application
383319	383318	24 G x 0.75 in. (Yellow) 0.7 mm x 19 mm	✓	✓
383329	383328	22 G x 0.75 in. (Blue) 0.9 mm x 19 mm	✓	✓
383339	383338	20 G x 1.0 in. (Pink) 1.1 mm x 25 mm		✓
383348	—	18 G x 1.0 in. (Green) 1.1 mm x 25 mm		✓

References

- 1 James R. Roberts MD, FACEP, FAAEM, FACMT. Alternatives Methods of Drug Administration. Roberts and Hedges' Clinical Procedures in Emergency Medicine and Acute Care, 2019.
- 2 Kawamata T, Sato Y, Niiyama Y, Omote K, Namiki A. Pain management after lumbar spinal fusion surgery using continuous subcutaneous infusion of buprenorphine. *J Anesth.* 2005;19(3):199-203. doi: 10.1007/s00540-005-0309-1. PMID: 16032446.
- 3 Sasson M, Shvartzman P. Hypodermoclysis: An Alternative Infusion Technique. *Am Fam Physician.* 2001;64(9):1575-1578.
- 4 Broadhurst D, Cooke M, Sriram D, Gray B. Subcutaneous hydration and medications infusions (effectiveness, safety, acceptability): A systematic review of systematic reviews. *PLoS One.* 2020;15(8):e0237572. doi:10.1371/journal.pone.0237572.
- 5 Kuensting L. Comparing subcutaneous fluid infusion with intravenous fluid infusion in children. *J Emerg Nurs.* 2013;39(1):86–91. doi:10.1016/j.jen.2012.04.017.
- 6 Dychter S, Gold D, Haller M. Subcutaneous Drug Delivery A Route to Increased Safety, Patient Satisfaction, and Reduced Costs. *J Infus Nurs.* 2012;35(3):154–160. doi:10.1097/NAN.0b013e31824d2271.
- 7 Delgado Sanchez. Comparative Cost Analysis Of Intravenous And Subcutaneous Administration of Rituximab In Lymphoma Patients. *ClinicoEconomics and Outcome Research.* 2019: 11 695-701.
- 8 Luis Rojas. Cost-minimization analysis of subcutaneous versus intravenous trastuzumab administration in Chile patients with HER2-positive early breast cancer. 2020 *Plos One*: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0227961>.
- 9 Dawkins L, Britton D, Johnson I, Higgins B, Dean T. A randomized trial of winged Vialon cannulae and metal butterfly needles. *Int J Palliat Nurs.* 2000;6(3):110–116. doi:10.12968/ijpn.2000.6.3.8937.
- 10 Maki DG, Ringer M. Risk factors for infusion-related phlebitis with small peripheral venous catheters. *Annals of Internal Medicine.* 1991;114:845-854.
- 11 Saf-T-Intima Technical Data Sheet. Revision 2019.
- 12 Gorski LA, Hadaway L, Hagle ME, et al. Infusion Therapy Standards of Practice, 8th Edition. *J Infus Nurs.* 2021;44(1S):S1–S224. doi:10.1097/NAN.0000000000000396.
- 13 Caccialanza R, Constans T, Cotogni P, Zaloga G, Pontes-Arruda A. Subcutaneous Infusion of Fluids for Hydration or Nutrition: A Review. *JPEN J Parenter Enteral Nutr.* 2018;42(2):296–307. doi:10.1177/0148607116676593.

To order the BD Saf-T-Intima™
Safety System, contact your
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