

DUPLEX®

Ready-to-use two-chamber bag,
containing pre-measured drug and
diluent for solution for infusion

More
time for
patient
care



More time for patient care.

A case for ready-to-use IV solutions

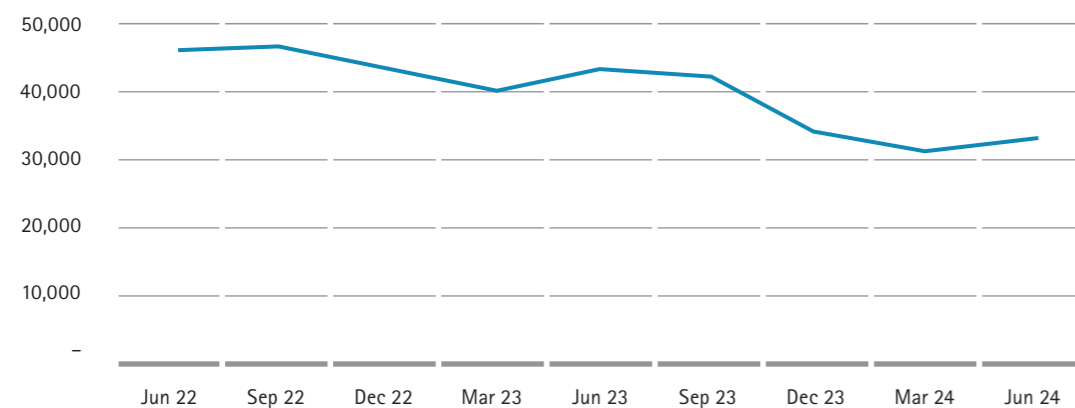
When it comes to intravenous medication, errors remain a major concern in healthcare. The traditional needle-and-syringe preparation method poses risks to both patients and healthcare professionals, and the ongoing nursing shortage and growing demand for aseptic products exacerbate this challenge. Preparing IV antibiotics is a time-consuming task that places a significant burden on nursing staff.¹

The DUPLEX[®] bag is an innovative point-of-care activated system for IV antibiotic preparation.¹

Nursing shortage in England

In England, as of June 2024, there were 32,738 vacancies in nursing (7.8% of all nursing posts). Care is delivered by multi-disciplinary teams, so nursing shortages directly impact the medical workforce who must take on a greater burden of work as a result.²

High vacancies in secondary care



Working as a health care professional comes with so many challenges. B. Braun has solutions that can help you to focus on what matters most: More time for patient care. Visit www.bbraun.com/moretime or scan the QR code to find out more.



DUPLEX[®]

Designed to improve patient safety and quality of care

With DUPLEX[®], B. Braun offers ready-to-use, two-chamber bags that keep pre-measured medication and diluent separate until you're ready to mix and administer. Not only does this significantly speed up and simplify IV drug administration - it also helps reduce medication errors and waste. Time to make a difference.¹

Benefits at a glance:

- Using DUPLEX[®] is faster than manual compounding.
- Less handling steps can reduce the risk of errors.
- The closed system lowers risk of antimicrobial exposure.
- Fewer disposables mean less clinical waste.

Less preparation time

Faster preparation with IV antibiotics

Faster than manually mixing

DUPLEX® makes it possible to reduce total preparation time by 56% (3:13 minutes) - from 5:44 minutes to 2:31 minutes. Preparation-only time for nurses can be reduced, too, by 81% (3:17 minutes) - from 4:02 minutes to 45 seconds compared to needle-and-syringe method.¹

While a controlled environment can provide ideal conditions for the needle-and-syringe method, real-world factors can significantly increase preparation time.¹

Time-saver:

100% of nurses rated DUPLEX® as "much better" or "better" than needle and syringe.¹

reduces preparation-only time by

81%¹

Less handling steps

Ready to use in 4 steps

Easy bedside activation

DUPLEX® is a favourable solution for the preparation and administration of ready-to-use antimicrobials. It required 78% fewer preparation steps (4 steps vs. 18 called for with needle and syringe) and reduced product usage by 90% (1 product vs. 10 products with with needle and syringe).¹

Ease of use:

All nurses rated DUPLEX® as „much better" or „better" than needle and syringe. Of the nurses polled, 94.2% felt "very confident" or "confident" using DUPLEX®, despite having no previous experience mixing drugs. In the free text comments, several respondents described DUPLEX® as "foolproof."¹

1. PEEL

Peel the foil strip from the drug chamber and visually inspect the diluent and drug chambers.



2. SNAP

Squeeze the pouch to break the initial seal between the diluent and drug powder.



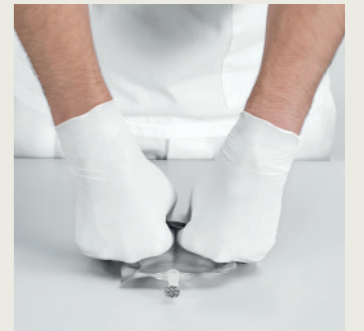
3. SHAKE

Shake thoroughly to mix.



4. SNAP

Squeeze pouch to open second seal and release solution to set port.



5. GO

Remove foil tab from set port and spike bag.

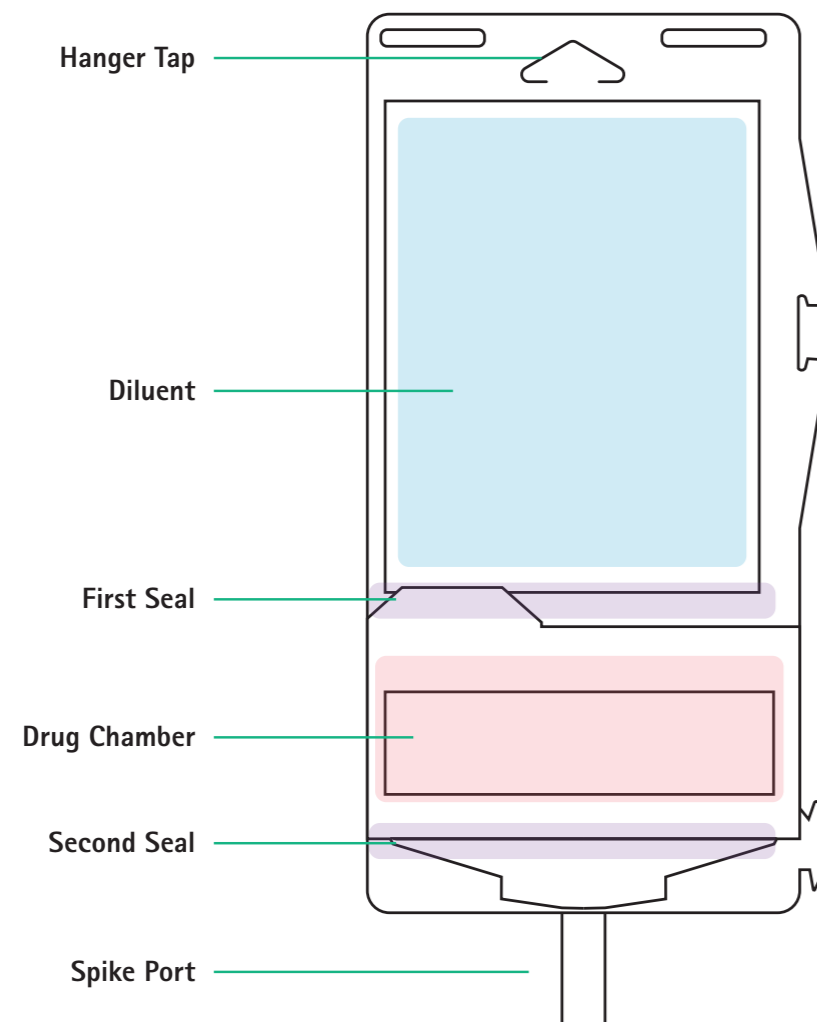


Less risk of exposure

Closed system designed to reduce antimicrobial exposure

Protects both healthcare professionals and patients

The closed system is designed to prevent contamination, protect potency and ensure that the diluent cannot be administered without the drug. DUPLEX® provides greater protection for healthcare professionals and patients.¹



Safety:

100% of nurses rated the risk of contamination and sharps injury lower with DUPLEX®.¹

Less clinical waste

Simplifying waste management

Fewer disposables means less waste.

DUPLEX® generates 81% less waste per dose than with the needle and syringe method - that's 14.83g vs. 78.04g of waste. Reducing disposables makes waste management an easier task and is an overall better choice for the environment.¹



Reduces clinical waste by
> 80%¹



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Source:

¹ B. Braun. An Innovative IV Antibiotic Preparation Device to Release Time to Care and Aseptic Capacity. 2024. Poster abstract accepted by QATS 2024 (available upon request). Full manuscript in preparation.

² NHS Digital: NHS Workforce Statistics The vacancy rate, as a percentage, is the FTE number of vacancies divided by the FTE planned workforce, multiplied by 100.