



Focused on you. So you  
can focus on patients.

B. Braun Pharmacy Systems





## PROVIDERS ARE OUR PURPOSE

B. Braun is a leader in smart infusion therapy and safe and effective pharmacy products, patient and provider safety, and sustainable health solutions.

We're committed to helping providers like you continuously improve patient satisfaction and outcomes. That's why we offer a broad portfolio of pharmacy products and services, including injectable drugs, parenteral nutrition and compounding, and CAPS® outsourcing admixture services. All designed to help free you up to focus on what matters most—your patients.

At B. Braun, we're uniquely positioned to help your facility succeed now and in the future.

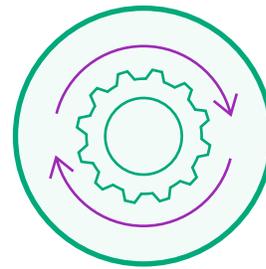
# WHY B. BRAUN PHARMACY SYSTEMS

Empowering providers to continuously improve patient satisfaction and outcomes.



## PROCESS IMPROVEMENT

We help improve pharmacy processes across your facility



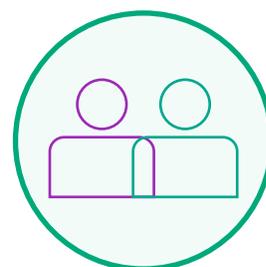
## EFFICIENCY

We help you drive more efficient pharmaceutical care<sup>1,2</sup>



## PARTNER

A pharmacy partner dedicated to your success



## ACCOUNTABILITY

Providing you with expert guidance and support



## IMPROVING PHARMACY PROCESSES ACROSS YOUR FACILITY

Our pharmacy portfolio of ready-to-use manufactured injectable drugs, parenteral nutrition and compounding products and services, and network of 503B outsourcing facilities with state-licensed 503A facilities can help improve organizational efficiencies across your facility—helping you drive more efficient and compliant pharmaceutical care.



### Premixed, prefilled and ready when you are

B. Braun's portfolio of injectable drugs are designed to improve efficiencies at the point of care, helping you to provide the **right dose to the right patient at the right time**.

Our premixed bags and prefilled syringes are designed to help you:

**SAVE TIME**

**LOWER COSTS**

**LIMIT WASTE**

**ELIMINATE**

preparation time

**REDUCE**

medication errors

Our DUPLEX® two-compartment flexible IV container and family of binary connectors can help drive efficiencies at your facility—decreasing pharmacy preparation time and making point-of-care drug delivery more efficient.



### A broad portfolio to meet your patients' needs

Our Parenteral Nutrition and Automated Compounding portfolio offers the flexibility you need to treat each patient's needs.

We offer a **full portfolio of single-chamber and dual-chamber final containers** to facilitate treatment, whether your patient is in the hospital or is being treated at home.

We also have a **broad portfolio of clinical nutrition solutions**, including lipids, amino acids and concentrated electrolytes.

APEX® Compounding System is designed for **speed, accuracy, ease of use and efficiency** for both macro and micro compounding. The PINNACLE® TPN Management System is designed to support fast, smart and user-friendly compounding.

**Reduce the risk of transcription errors** with APEX and PINNACLE TPN Manager and facilitate setup with APEX and PINNACLE's preassembled transfer sets.

OnGuard® 2 Closed System Transfer Device (CSTD) is compatible with all known hazardous drugs and is designed to help:

**SAVE** compounding time

**REDUCE** repetitive motion

**LIMIT** drug waste

**IMPROVE** SKU rationalization<sup>3</sup>



## Outsourced compounding made easy

CAPS® is the nation's largest network of outsourcing admixture pharmacy services, with three 503B outsourcing facilities and 22 state-licensed 503A regional pharmacies. We offer a comprehensive portfolio of compounded sterile preparations (CSPs) to address some of your most critical therapeutic needs in compatible infusion pump technology-neutral container options.

Outsourced CSP production helps:

### LOWER

labor costs

### REDUCE

drug waste<sup>1,2</sup>

### FREE UP

resources to focus on value-added patient care activities

CAPS' ready-to-use CSPs can help:

## Reduce the risk of medication errors

associated with labeling and preparation<sup>4,5,6</sup>

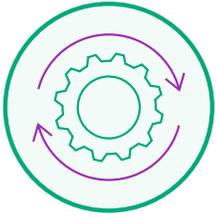
## Reduce the potential for contamination

during preparation when compared to being prepared by a clinician at the point of care<sup>7</sup>

Over 30 years of experience led us to design a unique solution to help ensure a safe and efficient ordering process. The CAPSLink® online ordering system offers transcription-free, secure and encrypted total parenteral nutrition (TPN) ordering with optional EHR integration used in hundreds of hospitals across the U.S.

- **Reduce prescribing errors** with a pharmacist double-checking all TPN orders<sup>8</sup>
- **Standardize** with integrated ASPEN guidelines in CAPSLink ordering software
- **Explore our comprehensive catalog** of CSPs for procedural therapy and critical care medicine
- **Eliminate paperwork** with proprietary CAPSLink Controlled Substance Ordering System (CSOS)





## HELPING YOU DRIVE MORE EFFICIENT AND EFFECTIVE PHARMACEUTICAL CARE

Our portfolio of pharmacy products can help your facility optimize pharmacy prep time, reduce the need for technician and pharmacist resources who were dedicated to compounding activities and help prepare you to efficiently and effectively meet the individual needs of the patients you care for.

### OVER \$1 BILLION INVESTED

in new and expanded North American pharmaceutical manufacturing facilities

We maintain a secure and reliable supply chain, backed by U.S. manufacturing.



### Ready-to-use convenient portfolio

Create efficiencies at your facility with B. Braun's DUPLEX® Container:

- Prefilled with standard doses
- No need to admix from vials
- No compounding calculations
- Barcoding helps streamline workflow
- Designed to save time and labor

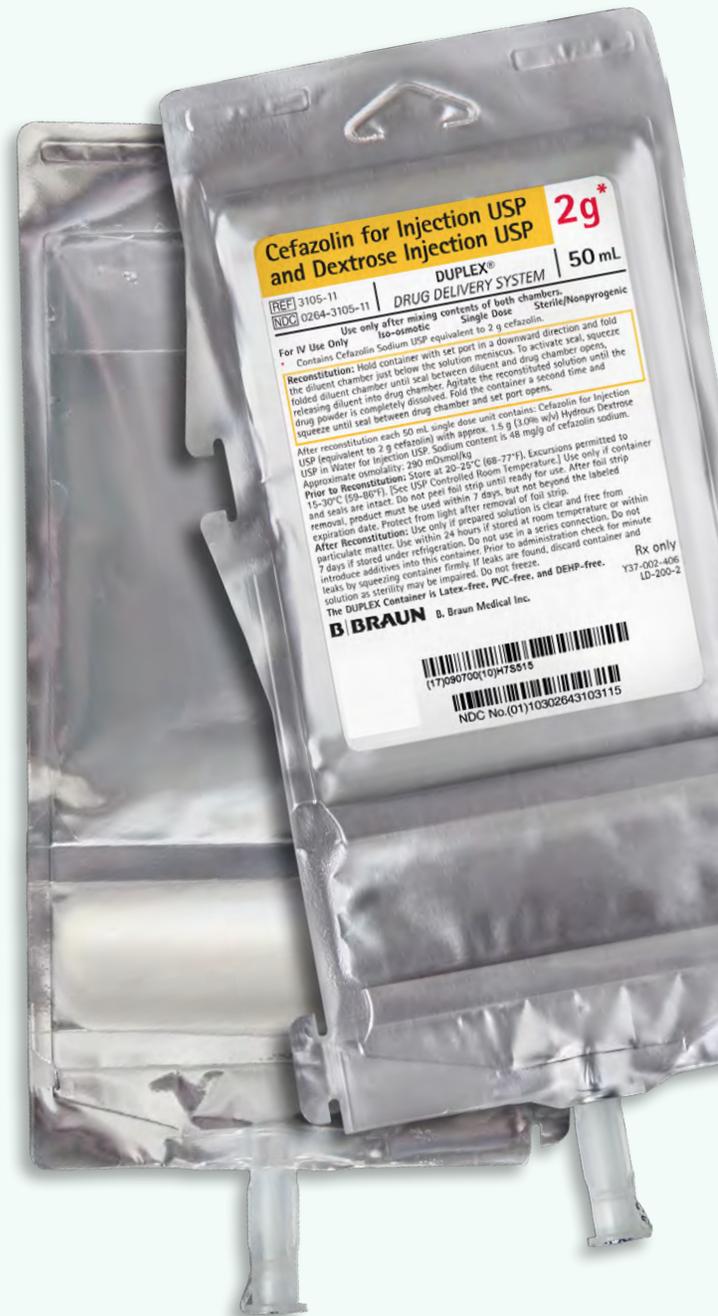
Building on our 180-year commitment to practical innovation, we're constantly working to optimize our ready-to-use IV products to help:

## REDUCE

medical errors

## MAXIMIZE

pharmacy efficiencies

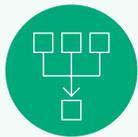




## Streamlining your nutrition and compounding needs

Our compounders are designed to provide flexibility and efficiency to meet customers' automated compounding needs.

For every APEX® rental, B. Braun provides an on-site backup unit to help minimize downtime.



## Simplify with fewer SKUs

The majority of hazardous drug compounding can be done with just three SKUs using our CSTD to help reduce waste,<sup>3</sup> remove confusion and simplify implementation.



## Increasing compounding efficiencies

As an FDA-registered 503B outsourcing facility, CAPS® assumes the supply chain responsibility for the sourcing of FDA-approved sterile drugs and Active Pharmaceutical Ingredients (API) where no finished injectable is available.

- Consistent labeling with barcoded National Drug Code (NDC), expiration and lot numbers including dual-sided labeling for select bag services
- Proprietary Test, Hold and Release<sup>SM</sup> quality assurance program with testing done in our internal FDA-registered Current Good Laboratory Practice (cGMP) laboratory helps ensure a stability-indicating, pre-commercial validation





## A PHARMACY PARTNER DEDICATED TO YOUR SUCCESS

We're your partner in pharmacy, delivering a portfolio of products and services that provides you with the ability to admix and administer hazardous drugs, including antibiotics, reducing healthcare worker exposure and helping to ensure safe practices.



### Helping to protect what matters

DUPLEX® Containers help protect patients, providers and the environment from antibiotic exposure that could occur from vials.

**B. Braun is the only supplier** offering a full line of IV solution containers **not made with PVC or DEHP**

B. Braun helps to eliminate the safety risks associated with repeatedly exposing certain patient populations to harmful toxic chemicals.

TrophAmine® is the only amino acid available in a container not made with DEHP, **minimizing the risk** of adverse effects from DEHP exposure



### Committed to safety across your facility

Our closed system transfer device:

- Reduces exposure to hazardous drugs during compounding and administration
- Is the only CSTD tested for vapor containment using actual hazardous drugs
- Is the leader in CSTD air-cleaning technology

APEX® TPN Manager:

TPN Manager streamlines the ordering process from physician to pharmacist to patient. It helps reduce medication errors by automating complex calculations and helps eliminate transcription errors.





## Reliability by design

As an FDA-registered network of 503B outsourcing facilities with state-licensed 503A facilities and over 30 years of experience, including over a hundred million doses\* made, we're committed to being a trusted partner.

To further demonstrate our commitment to the Drug Quality and Security Act, we've obtained voluntary accreditation from the National Association of Boards of Pharmacy for compliance to the applicable track and trace requirements for drug manufacturers.

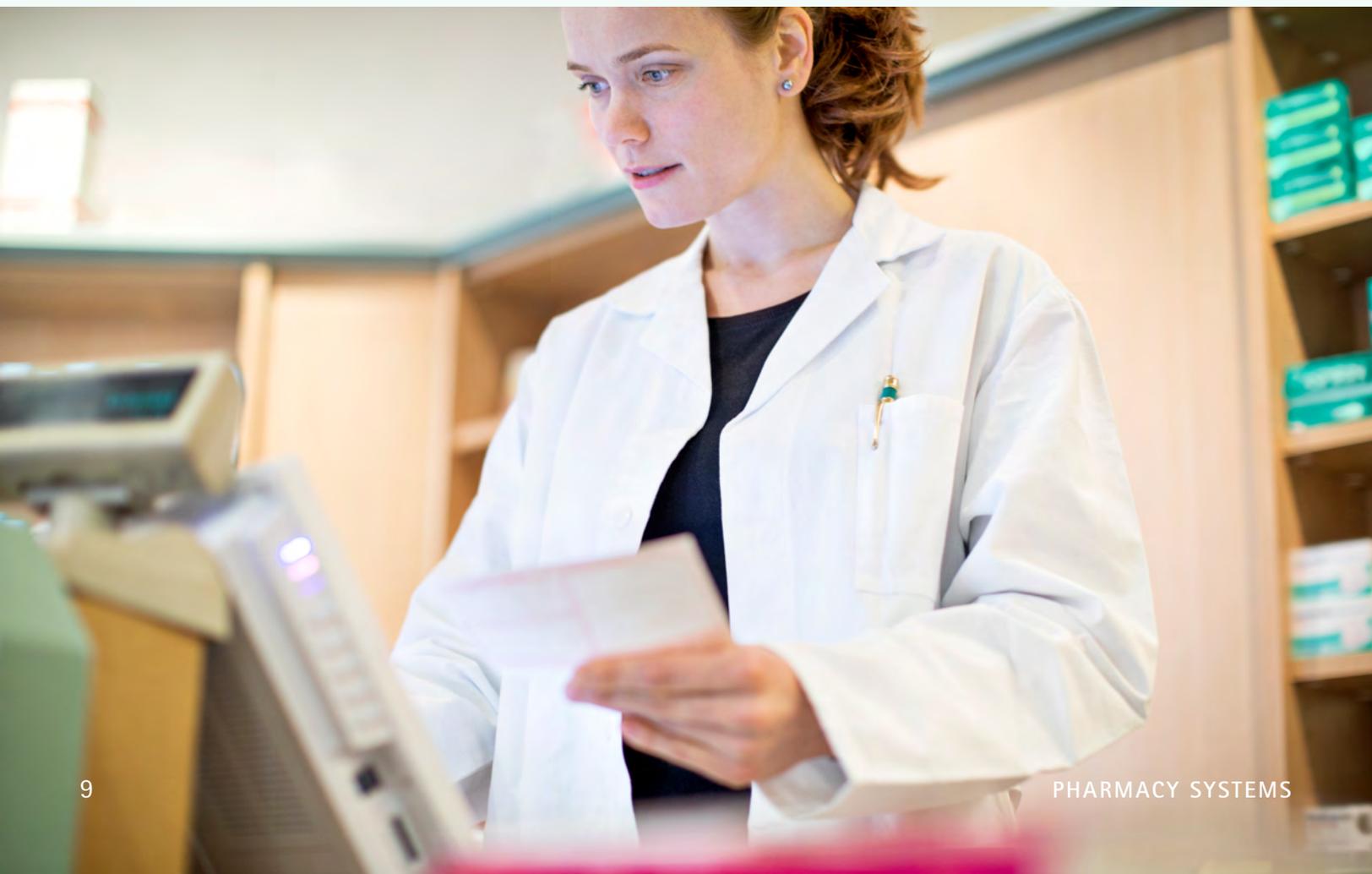
Our program is designed around reliability and focused on regulatory compliance. The result is a partner you can depend on to do the right thing when patients' safety is at stake and to help deliver the medications you depend on during critical drug shortages.

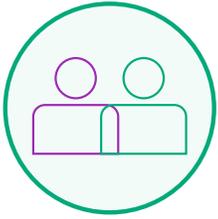
\* B. Braun Data on File

**THREE DECADES  
OF EXPERIENCE**



**OVER 100 MILLION  
DOSES MADE**





## HOLDING OURSELVES TO THE HIGHEST POSSIBLE STANDARD

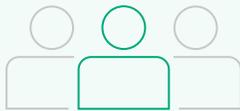
We're an accountable partner you can depend on, designing products that meet the unique needs of both you and your patients—with an unwavering commitment to providing the technologies and software you need to help reduce risk and maximize pharmacy efficiencies.



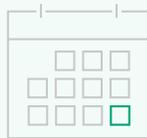
### Better outcomes start here

Our broad portfolio of automated compounders and clinical nutrition solutions offers a customized approach to help clinicians address malnutrition and compound parenteral nutrition to meet patients' individual nutrition needs.

### Helping to address malnutrition in hospitalized patients



**1 in every 3 hospitalized patients** becomes malnourished during a hospital stay<sup>9,10</sup>



**Approximately a 50% higher risk of readmission within 30 days** than those who are not malnourished<sup>11</sup>

**3.4x**

**Mortality rate that is 3.4x higher** than other adult patients without a malnutrition diagnosis<sup>11</sup>



### Expert guidance and support when you need it most

Pharmacist expertise in PN ordering and verification in conjunction with industry-exclusive software applications is just the start of how we are accountable to you. We also have programs to support in-house compounding for quality, safety and regulatory compliance. Recognizing the complexity of PN therapy management, the CAPS® PN Training Program takes the meaning of partnership to a new level.

CAPS Consulting and educational services include a suite of solutions:

- ReadyCheck<sup>SM</sup> USP <797>
- ReadyCheck USP <800>
- Fundamentals of Parenteral Nutrition
- PN Formulations and Monitoring

In addition, we've developed a legacy of supporting educational activities and clinical society meetings and seminars.

CAPS is continuously redefining the meaning of the term accountability.





## Ready to partner with us?

Contact your B. Braun representative today.

For more information, visit [www.bbraunusa.com](http://www.bbraunusa.com)

or [www.capspharmacy.com](http://www.capspharmacy.com).

1 Kellner A, Fortier CR, Weber J, Guidry OF. Outsourced pre-filled syringe system conversion: an assessment of OR IV waste reduction and anesthesia clinician satisfaction. Poster presented at American Society of Health-System Pharmacists Midyear Clinical Meeting. Anaheim, CA: December 2010. 2 Wolfe RS, Wall MH. Enhancing Anesthesia Medication Safety in the Intraoperative Setting. Poster presented at the 42nd Critical Care Congress. San Juan, Puerto Rico: January 2013. 3 Albaut V, Brobst M, Colliat F, Castel D. Comparative study of the different Closed System Transfer Devices available in France for the preparation of injectable immunotherapies. Poster presented at the 24th European GERPAC Conference. Hyères, France: October 2021. 4 Abeysekera A, Bergman IJ, Kluger MT, Short TG. Drug error in anaesthetic practice: a review of 896 reports from the Australian Incident Monitoring Study database. *Anaesthesia*. 2005 Mar;60(3):220-227. doi: 10.1111/j.1365-2044.2005.04123.x. PMID: 15710005. 5 Stucki C, Sautter AM, Wolff A, Fleury-Souverain S, Bonnabry P. Accuracy of preparation of i.v. medication syringes for anesthesiology. *Am J Health Syst Pharm*. 2013 Jan 15;70(2):137-142. doi: 10.2146/ajhp110654. PMID: 23292267. 6 Nanji KC, Patel A, Shaikh S, Seger DL, Bates DW. Evaluation of Perioperative Medication Errors and Adverse Drug Events. *Anesthesiology*. 2016 Jan;124(1):25-34. doi: 10.1097/ALN.0000000000000904. PMID: 26501385. 7 Stucki C, Sautter AM, Favet J, Bonnabry P. Microbial contamination of syringes during preparation: the direct influence of environmental cleanliness and risk manipulations on end-product quality. *Am J Health Syst Pharm*. 2009 Nov 15;66(22):2032-2036. doi: 10.2146/ajhp070681. PMID: 19890087. 8 Kraft MD, Tucker AM, Durfee SM, et al. Parenteral Nutrition Prescribing and Order Review Safety Study: The Need for Pharmacist Intervention. *Nutr Clin Pract*. 2020 Dec 04;36. doi: 10.1002/ncp.10600. 9 Guenter P, Jensen G, Patel V, et al. Addressing Disease-Related Malnutrition in Hospitalized Patients: A Call for a National Goal. *Jt Comm J Qual Patient Saf*. 2015 Oct;41(10):469-473. doi: 10.1016/s1553-7250(15)41061-x. PMID: 26404076. 10 Gates S, Du K, Braunschweig CA, Arensberg MB. Economic Burden of Disease-Associated Malnutrition at the State Level. *PLoS One*. 2016 Sep 21;11(9):e0161833. doi: 10.1371/journal.pone.0161833. PMID: 27655372. 11 Guenter P, Abdelhadi R, Anthony P, et al. Malnutrition diagnoses and associated outcomes in hospitalized patients: United States, 2018. *Nutr Clin Pract*. 2021 Oct;36(5):957-969. doi: 10.1002/ncp.10771. Epub 2021 Sep 6. PMID: 34486169.