Outlook® ES Safety Infusion System
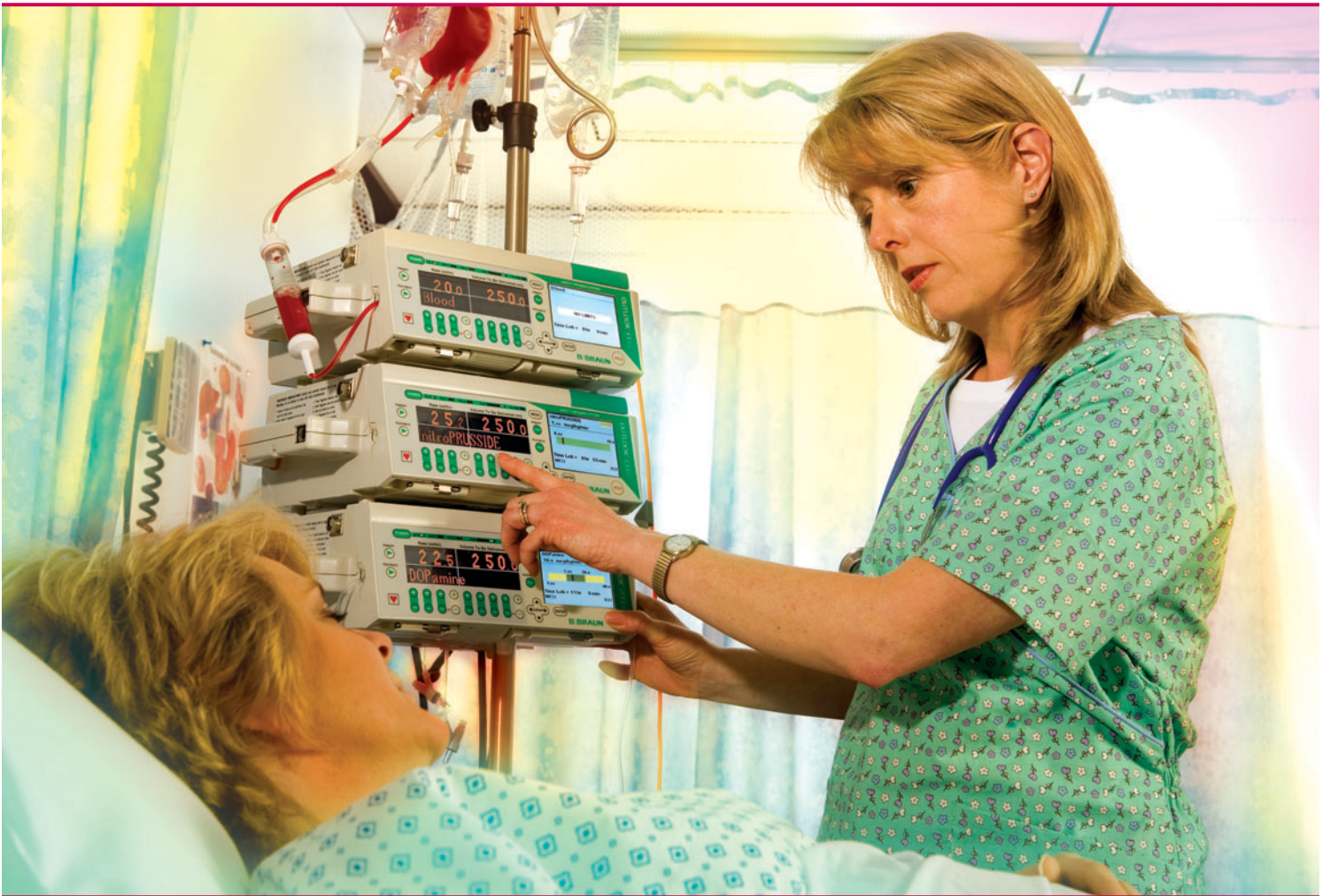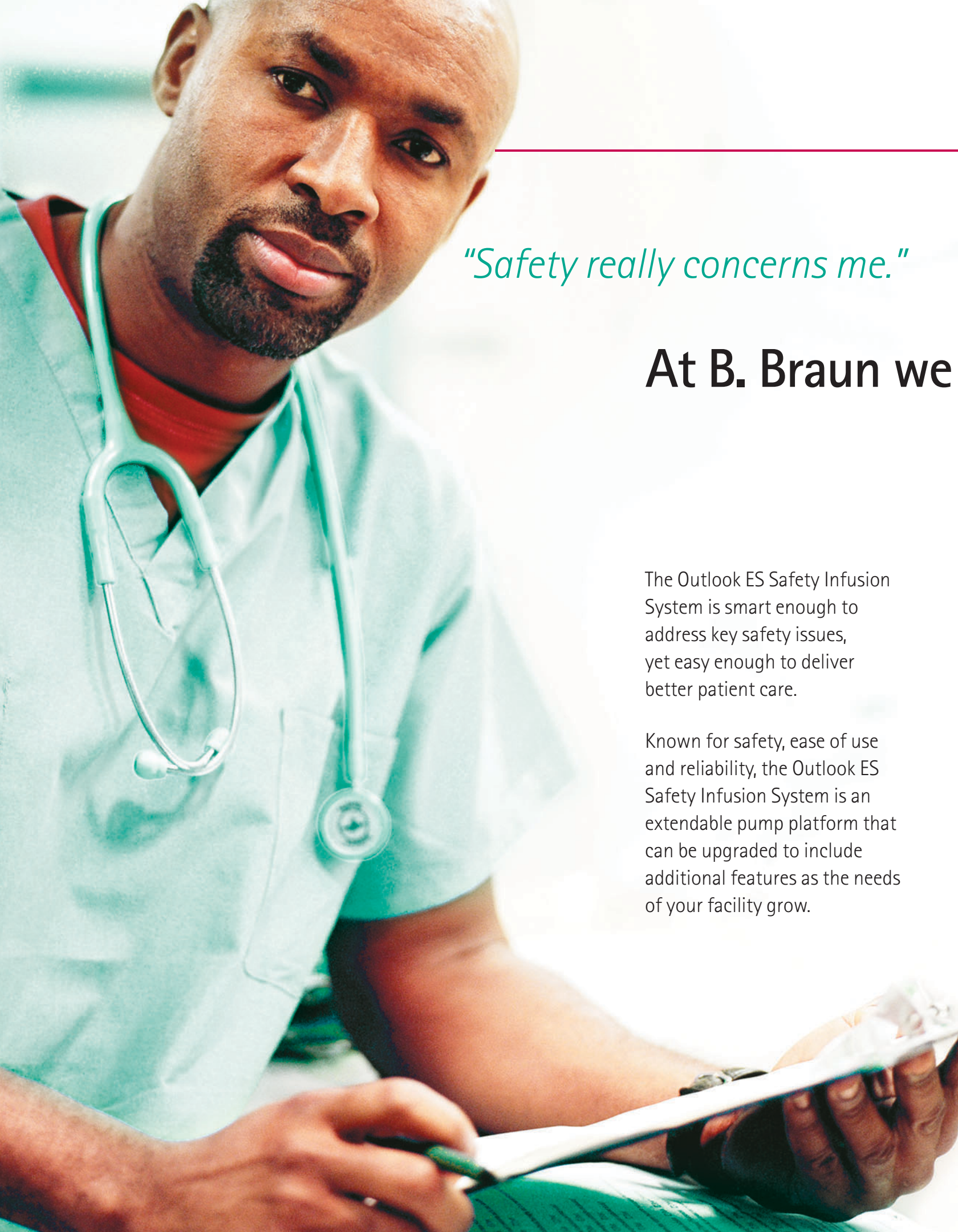
Extending Your Outlook on Safety™
To Deliver Better Patient Care

The newest generation of safe, easy-to-use
and reliable IV pumps.

B. Safe.

B|BRAUN
SHARING EXPERTISE

"Safety really concerns me."
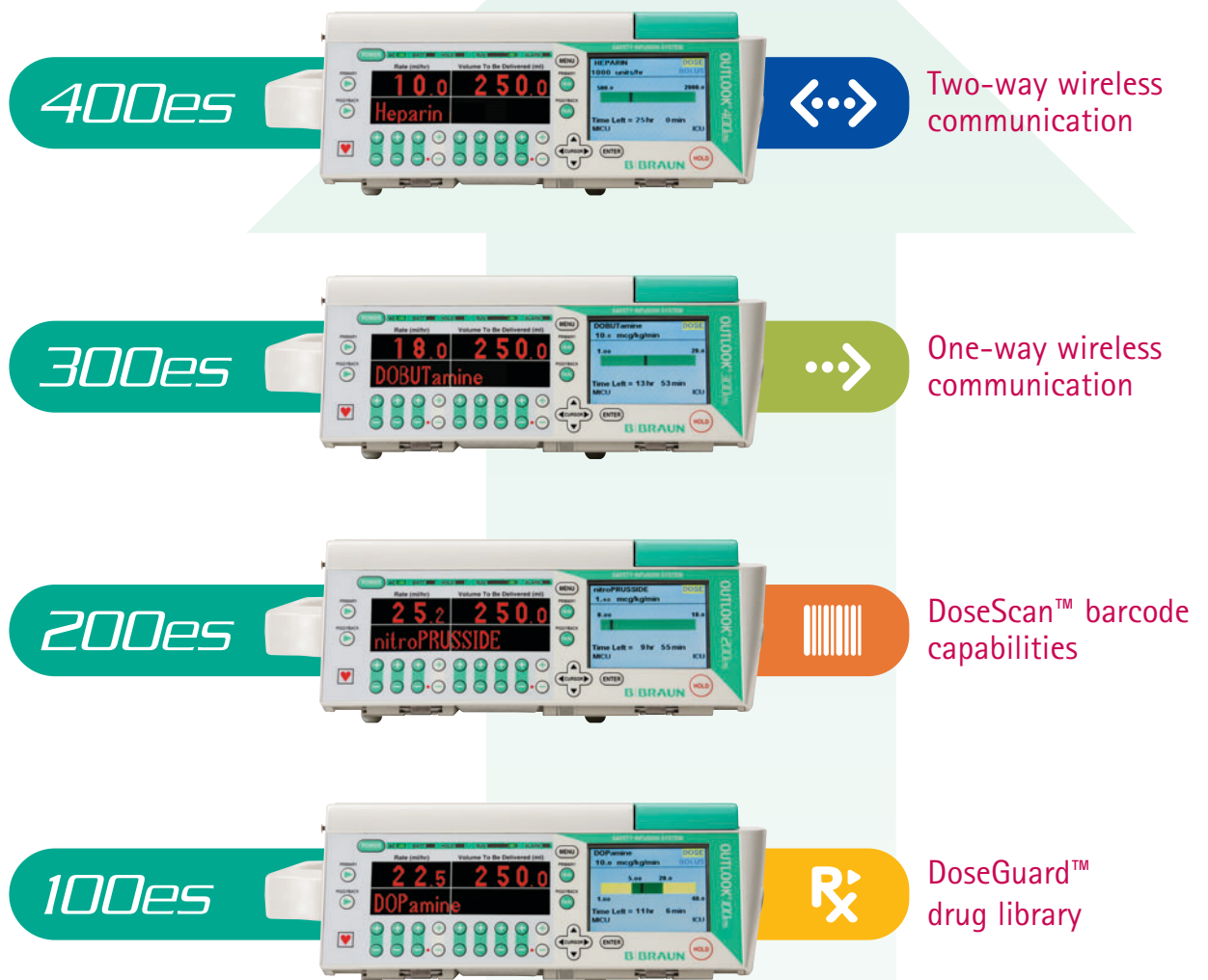
At B. Braun we

The Outlook ES Safety Infusion System is smart enough to address key safety issues, yet easy enough to deliver better patient care.

Known for safety, ease of use and reliability, the Outlook ES Safety Infusion System is an extendable pump platform that can be upgraded to include additional features as the needs of your facility grow.

OUTLOOK® ES *Safety Infusion System*

share your concern.

Extendable Pump Platform

400es — Two-way wireless communication

300es — One-way wireless communication

200es — DoseScan™ barcode capabilities

100es — DoseGuard™ drug library

OUTLOOK® *100es*

Safety, reliability and ease of use without compromise.
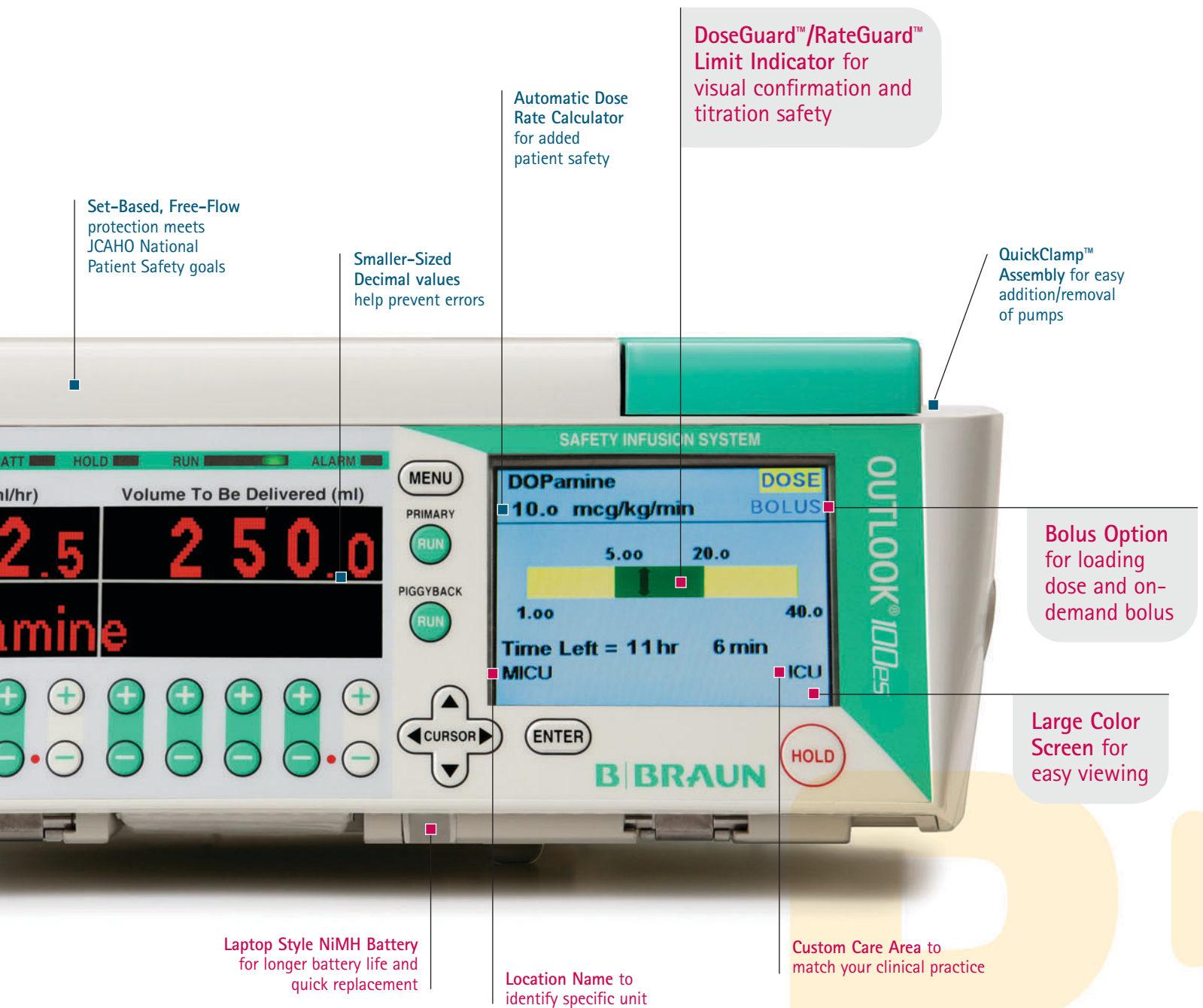
- Promotes patient safety by helping to avoid accidental under- or overdosing using audible and visual alerts for soft/hard dose limits.

- Provides the ability to customize up to 300 drugs and 15 care areas to match your drug formulary, using the expanded DoseGuard™ drug library.

- Provides reliable operation and accuracy using a proven delivery mechanism.

- Provides comprehensive "at-a-glance" viewing of infusion status on a large color screen.

- Promotes quick and easy drug selection using an active alphabetic drug library matrix.

- Promotes safer and more confident programming with color-coded key pad and audible key clicks.

"It's important to me that an IV infusion system provides safeguards like dose limits to reduce medication errors, while also recognizing the importance of my clinical judgment."

Panel Lockout to prevent tampering

Air-Trapping Cassette to reduce nuisance AIL alarms

Automatic Piggybacking for secondary medications

Color-Coded Keypad for easy operation and easy identification of decimal keys

POWER   AC   B

Rate (m

PRIMARY

PIGGYBACK

DOP

B. Safe.

This smart extendable platform lets you plan for the future today.

DoseGuard™/RateGuard™ Limit Indicator for visual confirmation and titration safety

Automatic Dose Rate Calculator for added patient safety

Set-Based, Free-Flow protection meets JCAHO National Patient Safety goals

Smaller-Sized Decimal values help prevent errors

QuickClamp™ Assembly for easy addition/removal of pumps

Bolus Option for loading dose and on-demand bolus

Large Color Screen for easy viewing

Laptop Style NiMH Battery for longer battery life and quick replacement

Location Name to identify specific unit

Custom Care Area to match your clinical practice

SAFETY INFUSION SYSTEM

OUTLOOK® 100es

B|BRAUN

DOPamine
10.0 mcg/kg/min
DOSE
BOLUS

5.00   20.0

1.00   40.0

Time Left = 11 hr   6 min
MICU   ICU

MENU
PRIMARY
RUN
PIGGYBACK
RUN
CURSOR
ENTER
HOLD

ATT   HOLD   RUN   ALARM
l/hr)   Volume To Be Delivered (ml)
2.5   250.0
amine

■ New features of the Outlooks ES
■ Traditional features of the Outlook System

OUTLOOK® *200es*

Extending the Outlook ES platform starts with the Outlook 200es.

- Promotes safer administration practices by using barcodes to reduce manual programming steps.

- Provides greater flexibility using new imager for built-in scanner and optional handheld scanner for reading both linear and 2-D barcode formats.

- Customizable configuration options allow you to enable patient ID, clinician ID and/or medication label barcodes as they are implemented with your facility.

- Promotes patient and clinician safety using optional drug-specific clinician ID scans for:
  – Dose limits overrides
  – Bolus deliveries
  – Critical medications (dual clinician scans)

- Promotes integrated safety by assigning dose limits to scanned drugs

New built-in 2-D Imager

"Barcoding not only expedites an infusion, it has made our IV medication administration safer, which gives me peace of mind."

B. Sure.

OUTLOOK® *300es* & *400es*

Outlook 300es Safety Infusion System

- Access real-time infusion data sent wirelessly from the pump

- No interruption to clinical workflow—infusion data is transmitted automatically

- Save time in documentation—infusion data can be sent to EMAR or EHR

Supported by DoseTrac™ Software

(sold separately)

Outlook 400es Safety Infusion System

- Wireless data can be used hospital-wide to improve safety, efficiency and workflow

- Provides a customized solution for your institution's infusion therapy needs

- Provides rapid access to information, alarms and infusion status

Improve safety, efficiency and workflow across departments with wireless access to infusion data.

B. Smart.

Improve communication between departments while capturing key data that will help you evaluate the safety, efficiency and efficacy of your IV therapy.

Capture data by:

- Alert type
- Care area
- Drug
- Location
- Patient
- Clinician
- Pump

Utilize data to:

- Improve patient safety by monitoring appropriate drug usage
- Preempt potential problems by spotting trends
- Improve standardization and compliance with medication administration protocols
- Share data between departments for system-wide improvements

"Real-time transmission of infusion data allows us to proactively identify and intercept potential errors. Pharmacy uses the real-time views to improve just-in-time refills and minimize drug waste."

DoseTrac™ *Data Reporting*

"DoseTrac™ provides data that allows me to maximize my medication safety initiatives, achieve best practices and improve communication between departments."

Track your infusions by delivery mode to monitor and trend the use of the Outlook® ES safety features such as DoseGuard™ and RateGuard™.

B.

Safeguard the infusion process through data management.

B|BRAUN DoseTrac™ Infusion Management Software

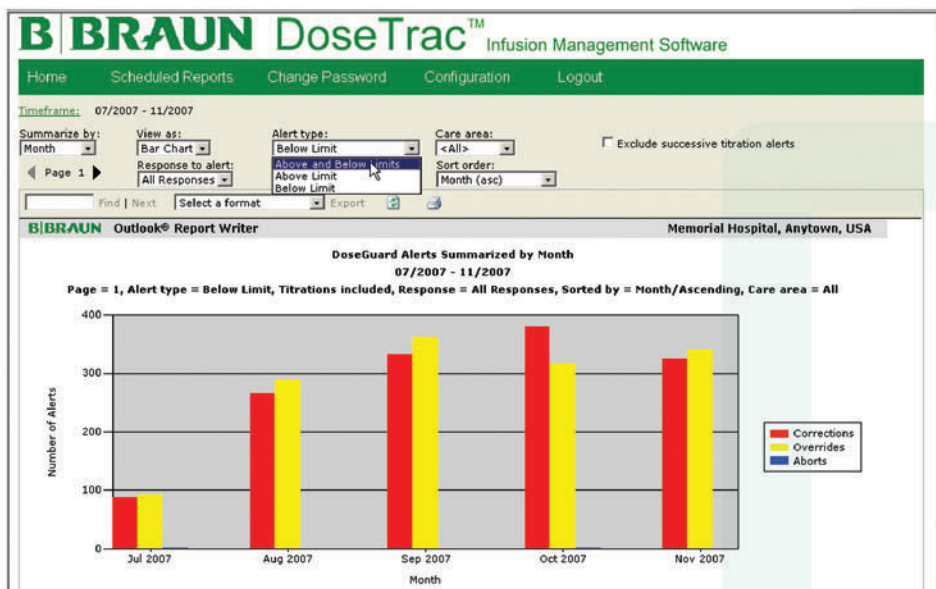Home   Scheduled Reports   Change Password   Configuration   Logout

Nurse: <All>   Patient: <All>   Drug: <All>   Care Area: <All>

B|BRAUN Outlook® Online   Memorial Hospital, Anytown, USA

Real-time Status View as of 12/18/2007 14:40:48

Pump S/N	Mode	Channel	State	Alarm	Care Area	Drug Name	Concentration	Dosage	Rate	Vol	Time Left (Min)	Nurse Id	Patient Id
000000	Dose	Primary	Run	n/a	ICU/CCU	Procainamide	4 g in 250 ml	2.31 mg/min	8.7	245.9	17	N00221	P00557176
000001	Dose	Primary	Run	n/a	ICU/CCU	Amiodarone	450 mg in 250 ml	0.69 mg/min	23	230.6	601	N00211	P00547352
000005	Std	Primary	Run	n/a					100	312.1	187		
000006	Dose	Primary	Run	n/a	ICU/CCU	EPInephrine	4 mg in 250 ml	0.91 mcg/min	3.4	248	4361	N00111	P00277352
000010	Std	Primary	Run	n/a					125	870.2	421		
000011	Std	Primary	Run	n/a					100	310.6	186		
000012	Dose	Primary	Run	n/a	ICU/CCU	DOPamine	1600 mg in 250 ml	18.4 mcg/kg/min	15.3	248.4	973	N00211	P00537058
000013	Std	Primary	Run	n/a					500	240.4	28		
000015	Std	Primary	Run	n/a					125	638.8	306		
000016	Std	Primary	Run	n/a					125	452.5	217		
000017	Dose	Primary	Run	n/a	Epidural	Morphine	150 mg in 150 ml	3.85 mg/h	3.9	137.3	2140	N00051	P00117176
000018	Std	Primary	Run	n/a					75	472.4	377		
000019	Std	Primary	KVO	n/a					3	0	0	N00302	P00777070
000020	Dose	Primary	Run	n/a	MedSurg	Octreotide	500 mcg in 500 ml	36.8 mcg/hr	36.8	476.7	777	N00191	P00507117
000023	Std	Primary	Run	n/a					125	423.4	203		
000024	Std	Primary	Run	n/a					100	436.4	261		
000025	Std	Pgyback	Run	n/a					50	175.5	210	N00302	P00757117
000026	Dose	Primary	Run	n/a	MedSurg	Heparin	25000 units in 250 ml	639.4 units/hr	6.4	230	2158	N00321	P00837070
000027	Dose	Primary	Run	n/a	Anesthesia	EPInephrine	2 mg in 250 ml	0.06 mcg/kg/min	37.4	166.9	268	N00131	P00307176

Identify potential problems as they occur and increase Nursing and Pharmacy efficiency with real-time access to remaining bag volumes and infusion time left.

B|BRAUN DoseTrac™ Infusion Management Software

Home   Scheduled Reports   Change Password   Configuration   Logout

Timeframe: 07/2007 – 11/2007

Summarize by: Month   View as: Bar Chart   Alert type: Below Limit / Above and Below Limits / Above Limit / Below Limit   Care area: <All>   ☐ Exclude successive titration alerts

Page 1   Response to alert: All Responses   Sort order: Month (asc)

Find | Next   Select a format   Export

B|BRAUN Outlook® Report Writer   Memorial Hospital, Anytown, USA

DoseGuard Alerts Summarized by Month
07/2007 – 11/2007

Page = 1, Alert type = Below Limit, Titrations included, Response = All Responses, Sorted by = Month/Ascending, Care area = All

Number of Alerts (Jul 2007, Aug 2007, Sep 2007, Oct 2007, Nov 2007) — Month

Legend: ■ Corrections (red) ■ Overrides (yellow) ■ Aborts (blue)

Review dose corrections, overrides and their programming details to help you identify "smart stops" and develop proactive measures to reduce the risk of medication errors.

Informed.

DoseTrac™ *Analysis Services*

"The analysis and insightful interpretation of the data retrieved from the DoseTrac™ software validated our investment in the Outlook® ES Safety Infusion System. We now have a better understanding of the steps required to help ensure that no dosing event results in an adverse patient incident."

Identify trends, areas for improvement, standardization, and opportunities for practice enhancements for all stakeholders.

DoseTrac Safety Analysis

Working with B. Braun's Clinical Support team, we'll show you how to get the most out of the data you're collecting, with a minimal amount of effort.

Let B. Braun help you retrieve and analyze the data. We will:

- Capture infusion data
- Analyze the data and report findings to you
- Customize report analysis for different departments
- Identify trends or practices that will help you keep your infusion system safe, effective and efficient

DoseTrac™ Safety Analysis

A Report for
Memorial Hospital
Carrollton, Texas

An analysis of infusion pump data to support safe administration of IV medications.

2/15/08

B. Supported.

B | BRAUN
SHARING EXPERTISE

B. Braun *Clinical Support and Services*

When it comes to implementation, B. Braun offers
you a wide range of service and support programs—
many at no charge.

PHASE I — Assessment

Analyzing the needs of our customers is always the first step in developing an ongoing partnership. Clinical Nurse Consultants will review your current infusion practice and recommend the optimum number of pumps and tubing configurations to meet patient needs. Pharmacy and Nursing Consultants will help you develop a custom drug library and pump configuration that meet your clinical practice and safety requirements.

PHASE II — Planning

B. Braun will partner with your internal resources to help guide you through the implementation process and provide proven educational tools to ensure a smooth system transition. Our goal and commitment is to train and educate your staff to the highest level of proficiency so when the system is implemented, your staff is well prepared and part of the process

PHASE III — Implementation

B. Braun's Clinical Consultants will train and support your staff to help ensure an infusion system changeover without disrupting patient care. At no additional cost, our experts will be positioned throughout the facility to provide clinical education and technical assistance to all departments. Additional implementation options are available on a fee-for-service basis.

PHASE IV — Optimization

B. Braun believes it's important for you to know your return on the investment you've made with us. Optional clinical programs help ensure that the safety features of your infusion system are used to their fullest extent, while DoseTrac™ analysis options help you analyze your infusion data to support quality improvement initiatives.

Make a smooth transition while working toward your ultimate goal of reducing medication errors.

"Converting a large health system to new smart pump technology was a huge undertaking. However, with efficient planning and a dedicated team of internal and external experts, the process resulted in a successful conversion with lasting implications for improved patient and clinician safety."

B. Confident.

Outlook® ES Safety Infusion System

SPECIFICATIONS

100es		
	Mechanism:	Positive Pressure Displacement Reservoir
	Width:	30.5 cm (12 in)
	Height:	11.4 cm (4.5 in)
	Depth:	22.2 cm (8.75 in)
	Weight:	5 kg (11 lbs)
	Power:	120 VAC, 3A, 60 Hz
	Grounding Resistance:	Meets or Exceeds UL Standard 2601-1
	Leakage Current:	Meets or Exceeds UL Standard 2601-1
	UL Certified:	Yes. Meets or exceeds 2601-1, IPX1 drip rating
	Battery:	12V NiMH
	Battery Operating Time:	7 hrs at 25 ml/hr
	Rate Range:	0.1 to 999.9 mL/hr in 0.1 mL increments Micro Mode: 0.1 to 99.9 mL/hr in 0.1 mL increments
	Volume to be Delivered Range:	0.1 to 9,999.9 mL in 0.1 mL increments
	Occlusion Pressure:	Adjustable Settings 75, 100, 200, 300, 400, 500, and 750 mmHg
	KVO Rate:	3 mL/hr or selected rate whichever is lower
	Volumetric Accuracy:	± 5%
	Alarms:	Air-in-line, Hold Time Exceeded, Low Battery Warning, Plug In Alarm, DoseGuard™ Alert, RateGuard™ Alert, Downstream Occlusion, Check Set, Bag Empty, Upstream Occlusion, System Error
	Tubing:	Horizon® Pump Sets
	Modes/Features:	DOSE Mode with DoseGuard™ Drug Library, Primary and Piggyback Modes with RateGuard™ Solution Library, Loading Dose and On-demand Bolus Modes, Profile Mode, Program Mode, Set Time and Volume, Schedule Next Run, Micro Mode, q(x) Mode, Epidural Mode
	Custom Configuraton Software:	Outlook® ES Pump Configuration Editor Software (Required—One time fee, unlimited use license)
200es	DoseScan™ Imager:	On-board imager for linear and 2-D barcode formats User-defined bar code options including: Patient ID; Nurse ID; Patient ID on Medication Label—Patient Matching; Medication Label—Automated Programming; DoseGuard™/RateGuard™ Override Scan; Bolus Authorization Scan; Critical Med (Dual Scan); RUN Authorization Scan
300/400es	Wireless Radio:	802.11 a/b/g
	IP Addressing:	Static or Dynamic (DHCP)
	Encryption:	WEP, WPA-PSK (Pre-Shared Key), or WPA2-PSK

Sharing Expertise® in Total Parenteral Nutrition.

B. Braun practices the open exchange of information among employees, partners and customers from around the world. Through sharing this collective expertise, we can continue to contribute to the safety and quality of care for healthcare professionals and their patients.

This is Sharing Expertise.
This is B. Braun.

B|BRAUN
SHARING EXPERTISE

10%
TOTAL RECOVERED FIBER
ALL POST-CONSUMER FIBER