Patient ID

continued from page 108

tance and has emphasized the safe delivery of advanced health care technology.

The climate for manufacturers has never been better, but the road ahead is still uphill.

▼ ***Walter Henricks, MD,*** *director, Center for Pathology Informatics, Cleveland Clinic:* Much of the issue with implementing positive patient identification technology lies in obstacles with integration and interoperability.

Many health care institutions use multiple systems from an equal number of vendors—a hospital information system/electronic medical record system from one vendor, a laboratory information system from another, and a blood bank system, patient registration system, and pharmacy system from still others. Each of these systems might have its own method, device, or technology for identifying patients, complicating the process of integrating data necessary to achieve the goals of the system. Furthermore, if patient identification devices and software are not interoperable, the phlebotomist or nurse, for example, might need different devices for pharmacy, laboratory, point-of-care testing, and other areas.

CAP TODAY: In what ways should hospital blood banks collaborate with hospital pharmacies to incorporate machine-readable patient ID technology into their operations?

▼ ***Cathy Shea*** *(BD):* Most hospitals are beginning to incorporate machine-readable patient identification technology in various departments, often starting with the pharmacy and medication verification.

The same handheld device or computer should be able to be used for positive patient identification, medication administration, and blood product administration—only the software application should be different for each. To ensure compatibility, blood banks should select patient identification technology that complies with the upcoming International Standards for Blood Transfusion (ISBT) bar-coding requirements. This will allow the blood bank to ensure compatibility into the future when implementing an FDA 510(k)-cleared transfusion management system. Hospitals can further strengthen systems compatibility by selecting a medication management vendor that offers an FDA 510(k)-cleared transfusion management module or a vendor that uses an open-system approach that allows the hospital to select best-in-class vendors for medication, specimen management, and transfusion management applications, among others.

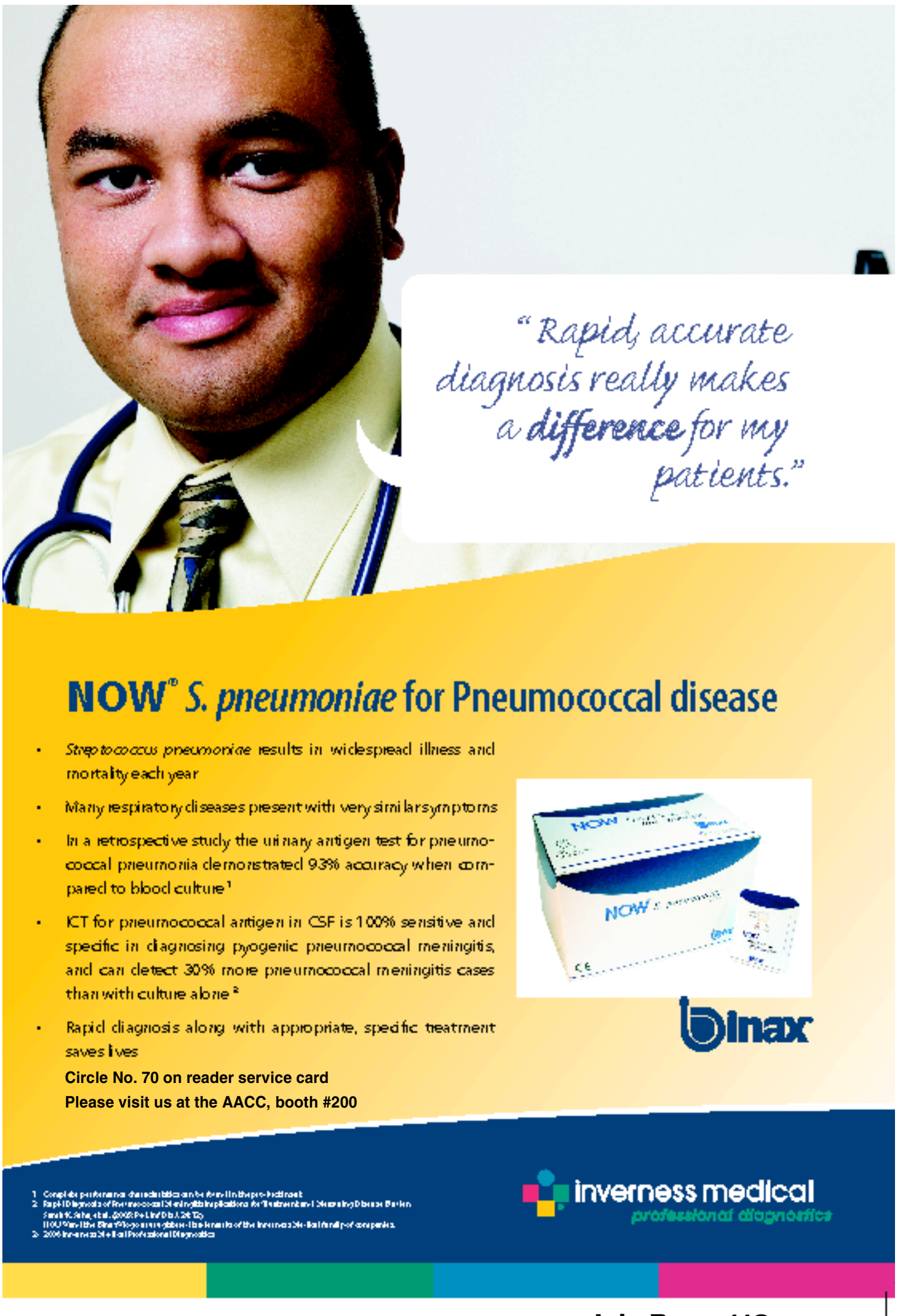
Blood banks should ensure that pharmacy management selects hardware technologies that support running multiple applications for patient identification. This optimizes the organization's investment in the hardware required to use automated patient identification technology and minimizes the incremental expense that may be associated with introducing blood bank and transfusion management technologies.

▼ ***Sandra Trakowski*** *(Care Fusion):* Pharmacies and hospital blood banks should use the same wristband media and reader technology to support positive patient identification for checking medications and blood products at the bedside to maintain consistency with nursing and other clinical staff. This should not be a problem since the same reader device can be set up to read different symbologies.

Upstream and downstream collaboration on selecting and using the same media and reader technology, and including nurse users in the decision process, will bring greater success in these endeavors.

▼ ***Walter H. Dzik, MD*** *(Massachusetts General Hospital):* This is simply a matter of seeing the very broad common ground between the operational issues surrounding safe medication administration and correct blood transfusion. By collaborating on the details of common data sets, common software, and common hardware, pharmacy and transfusion services can work together to provide greater value to hospitals and patients. This is an obvious union with benefits for all. □

CAP TODAY's second annual survey of positive patient identification technology is featured on pages 111–119. The survey is divided into two parts—a listing of software, wristbands, and specialized tools and a listing of printers and labels. The survey is a snapshot of products in this marketplace and does not focus on hardware or pharmacy systems.



706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 111

SYSTEM REVIEW SERIES

Positive patient identification systems and products

Part 1 of 8

See accompanying article on page 108

	BD **Cathy Shea** cathy_shea@bd.com 1 Becton Drive Franklin Lakes, NJ 07417 201-847-5773 www.bd.com/bdid	Bio-Optronics **Randy A. Wilford** info@bio-optronics.com 100 Corporate Woods, Ste. 160 Rochester, NY 14623 877-279-8377 www.dynamichospital.com
Name of positive patient ID system/product	BD.id Patient Identification System	Dynamic Hospital IdentifiOR
Description of positive patient ID system/product	bedside patient ID via bar-coded wristbands and label printing at collection	wristbands for patient, staff, and visitor identification
Company is a reseller of this product(s)?	sell BD products and resell other vendors' products	no
• For which vendors is company a reseller?	Symbol, Zebra (BD software is loaded onto hardware from these suppliers)	—
Company sells its products through distribution partners?	no	yes
• With which vendors does company partner?	—	Data Capture Solutions, Ultra-Scan Corp.
First ever/most recent installation of positive patient ID system/product	1999/May 2006	1999/March 2006
No. of contracts for U.S. sites where system/product is installed, operational	7	10
No. of contracts for foreign sites where system/product is installed, operational	0	—
No. of contracts signed since May 1, 2005	2	6
No. of facilities where system/product is installed and operational	7	8
Techniques to verify patient ID when creating a wristband on admission	—	ID card without a photograph, ID card with a photograph, fingerprint, retinal scan, iris scan
Techniques for patient ID prior to each intervention/specimen collection	one-dimensional bar-code wristband	ID card, one- and two-dimensional bar-code wristband, passive and active radio-frequency identification, biometric (fingerprint)
• How RFID tag is affixed to patient	—	chart
• Approximate dimensions of RFID tag	—	2 x 3 x .075 in.
• Data fields on RFID tag or wristband	—	configurable—can be any database field
System functionality	general laboratory specimen collection	general laboratory specimen collection, patient and medication matching prior to medication administration
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside, applied to tube	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube
Data elements encoded on specimen label	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No., collector ID	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No., staff ID
Bedside technology for blood transfusion offered via positive patient ID system/product	verification that a physician order is on record for the transfusion, detection of potential mistransfusion, documentation of final transfusion record	—
• Symbology that system/product accepts for bedside transfusion	ISBT 128	—
• Techniques for reading labels on blood units	one-dimensional bar code	—
Medication tracking offered via positive patient ID system/product	—	order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration
• Techniques used to read labels on medications	—	one- and two-dimensional bar code, radio-frequency identification
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	1¼ x 3¼ x 5¾ in.	1.5 x 4 x 7 in. (customer specific)
• Approximate weight of handheld/point-of-care workstation	11.1 oz.	<1 lb. (customer specific)
• How handheld workstation communicates with host LIS	intermittent docking	intermittent docking, real-time radio frequency
• Systems ID-matching software runs on	pocket PC (PC-based application under development)	general-purpose PC, pocket PC
Is system/product designed to be used with EKGs?	yes	uncertain
Is system/product designed to be used with glucometers or other point-of-care testing devices?	no	uncertain
FDA 510(k) approval		
• Is positive patient ID system/product FDA 510(k) approved?	no	no
• Have applied for, but not yet received, FDA 510(k) approval?	no	no
• Intend to apply for FDA 510(k) approval?	unnecessary	unnecessary
Required interface(s)	HIS and LIS	none
• Hospital information system interfaces	Cerner, McKesson, Siemens, Meditech, others	McKesson, IDX, GE, Meditech, Vista
• Laboratory information system interfaces	Meditech, Misys, Siemens	—
Cost		
• General license fee per facility	—	workstation license~$1,000
• Single handheld workstation	—	$275
• Information system interface	—	typically $4,500
Distinguishing features (supplied by vendor)	• container verification—proprietary bar code linking specimen container and test • wired and wireless functionality for use where wireless signal is weak or not available • pre-implementation process and workflow analysis	• can configure unit-specific designs • can configure and print any combination of wristbands and label designs to any Windows-compatible printer • 20 years of experience interfacing to HIS or CIS providers

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Survey editors: Raymond Aller, MD, Hal Weiner, Walter Dzik, MD

706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 112

Positive patient identification systems and products

Part 2 of 8

See accompanying article on page 108

	Care Fusion **Rob Finizio** robert.finizio@carefusion.com 1430 Spring Hill Rd., Ste. 510 McLean, VA 22102 703-714-0730 ext. 226 www.carefusion.com	Cerner Corp. **Jennifer Thomas** jennifer.thomas@cerner.com 120 S. Sierra Ave. Solana Beach, CA 92075 858-603-7878 www.cerner.com
Name of positive patient ID system/product	wCareMed, wCareCollect, wBloodCare	Bridge Medication Administration, Bridge Specimen Collections
Description of positive patient ID system/product	bar-code–enabled medication administration, specimen collection, blood administration	patient wristbands, one- and two-dimensional bar codes on medication and specimens
Company is a reseller of this product(s)? • For which vendors is company a reseller?	no —	sell Cerner products and resell other vendors' products Symbol, Hand Held Products, Flo, Ergotron, Zebra, others
Company sells its products through distribution partners? • With which vendors does company partner?	yes —	no —
First ever/most recent installation of positive patient ID system/product No. of contracts for U.S. sites where system/product is installed, operational No. of contracts for foreign sites where system/product is installed, operational No. of contracts signed since May 1, 2005 No. of facilities where system/product is installed and operational	2002/2006 37 (wCareMed), 9 (wCareCollect), 9 (wBloodCare) 1 176 (wCareMed), 183 (wCareCollect), 177 (wBloodCare) 37 (wCareMed), 10 (wCareCollect), 9 (wBloodCare)	1998/2006 25 n/a 5 (Bridge Medication Administration) 47 (Bridge Medication Administration), 1 (Bridge Specimen Collections)
Techniques to verify patient ID when creating a wristband on admission	—	fingerprint
Techniques for patient ID prior to each intervention/specimen collection	ID card, one- and two-dimensional bar-code wristband, passive and active radio-frequency identification	one- and two-dimensional bar-code wristband, fingerprint
• How RFID tag is affixed to patient • Approximate dimensions of RFID tag • Data fields on RFID tag or wristband	— — any demograhic information	n/a n/a patient account No., patient medical record No.
System functionality	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration	general laboratory specimen collection, patient and medication matching prior to medication administration
Techniques for specimen identification at the time of specimen collection	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; bar-code label placed on tube in tube manufacturing process; peel-off label removed from wristband; radio-frequency tag printed centrally, added to tube; radio-frequency tag printed at bedside, applied to tube; radio-frequency tag placed on tube in tube manufacturing process	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube
Data elements encoded on specimen label	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No., others	accession No., container ID, date, specimen type, patient name, patient account/admission No., patient medical record No., others
Bedside technology for blood transfusion offered via positive patient ID system/product	verification that a physician order is on record for the transfusion, verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	—
• Symbology that system/product accepts for bedside transfusion	two-dimensional, ISBT 128, Codabar	—
• Techniques for reading labels on blood units	one- and two-dimensional bar code, radio-frequency identification	—
Medication tracking offered via positive patient ID system/product	order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration	order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration
• Techniques used to read labels on medications	one- and two-dimensional bar code, radio-frequency identification	one- and two-dimensional bar code
Handheld workstations • Approximate size of handheld/point-of-care workstation • Approximate weight of handheld/point-of-care workstation • How handheld workstation communicates with host LIS • Systems ID-matching software runs on	 3 x 5.5 in. 11 oz. real-time radio frequency general-purpose PC, pocket PC	 3 x 6 x 1.25 in. ~11 oz. real-time radio frequency pocket PC
Is system/product designed to be used with EKGs? Is system/product designed to be used with glucometers or other point-of-care testing devices?	yes yes	no no
FDA 510(k) approval • Is positive patient ID system/product FDA 510(k) approved? • Have applied for, but not yet received, FDA 510(k) approval? • Intend to apply for FDA 510(k) approval?	 yes — —	 no yes —
Required interface(s) • Hospital information system interfaces • Laboratory information system interfaces	HIS and LIS Meditech, Cerner, Siemens, Misys, IDX, Mediware, McKesson, GE, TDS, Eclipsys Misys, Soft Computer, Mediware, Wyndgate, Cerner, Siemens	HIS and LIS ADT, Cerner, Meditech, McKesson, IDX, Siemens, Mediware Misys, Cerner, Meditech
Cost • General license fee per facility • Single handheld workstation • Information system interface	 — — —	 — — —
Distinguishing features (supplied by vendor)	• inpatient, outpatient, operating room (AP), and specialty care area functionality built into the specimen-collection application • suite of six products that are proven in over 40 hospitals live today and sold to more than 200 hospitals	• offers error prevention beyond the five rights and enhances workflow • no dependencies on core information systems—a hospital can change its pharmacy, lab, or clinical documentation system with minimal impact on nursing • system embedded with Quovadx Cloverleaf interface engine

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706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 113

SYSTEM REVIEW SERIES

Positive patient identification systems and products

Part 3 of 8	**Cerner Corp.** **Jennifer Thomas** jennifer.thomas@cerner.com **120 S. Sierra Ave.** **Solana Beach, CA 92075**	**DataRay** **Pamela J. Millican** pamelam@datarayusa.com **1141 S.E. Grand Blvd., Ste. 105** **Oklahoma City, OK 73129**
See accompanying article on page 108	**858-603-7878** www.cerner.com	**405-677-5317** www.datarayusa.com
Name of positive patient ID system/product	**Cerner Millennium PathNet Handheld Specimen Collections, Cerner Classic Handheld Specimen Collections, Millennium POC solutions: CareAdmin, CareMobile, CareGuard**	**DataRay Specially Configured Plug and Play Labeling Printer**
Description of positive patient ID system/product	**patient wristbands, one- and two-dimensional bar codes on medication and specimens**	**wristbands, labels, etc.**
Company is a reseller of this product(s)? **• For which vendors is company a reseller?**	**sell Cerner products and resell other vendors' products** **Symbol, Hand Held Products, Flo, Ergotron, Zebra, others**	**sell DataRay products and resell other vendors' products** **Zebra**
Company sells its products through distribution partners? **• With which vendors does company partner?**	**no** **—**	**no** **n/a**
First ever/most recent installation of positive patient ID system/product **No. of contracts for U.S. sites where system/product is installed, operational** **No. of contracts for foreign sites where system/product is installed, operational** **No. of contracts signed since May 1, 2005** **No. of facilities where system/product is installed and operational**	**1998/2006** **65 (Millennium solutions)** **n/a** **28 (Millennium POC)** **11 (Millennium POC)**	**1986/May 2006** **550** **0** **44** **660**
Techniques to verify patient ID when creating a wristband on admission	**—**	**two-dimensional bar code, RFID, linear bar codes**
Techniques for patient ID prior to each intervention/specimen collection	**one- and two-dimensional bar-code wristband**	**one- and two-dimensional bar-code wristband, passive radio-frequency identification**
• How RFID tag is affixed to patient **• Approximate dimensions of RFID tag** **• Data fields on RFID tag or wristband**	**—** **—** **—**	**—** **—** **—**
System functionality	**general laboratory specimen collection, patient and medication matching prior to medication administration**	**general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration**
Techniques for specimen identification at the time of specimen collection	**bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube**	**bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; bar-code label placed on tube in tube manufacturing process; peel-off label removed from wristband**
Data elements encoded on specimen label	**accession No., container ID, patient account/admission No., patient medical record No.**	**accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.**
Bedside technology for blood transfusion offered via positive patient ID system/product	**—**	**detection of potential mistransfusion, documentation of transfusion data**
• Symbology that system/product accepts for bedside transfusion	**—**	**two-dimensional, ISBT 128**
• Techniques for reading labels on blood units	**one-dimensional bar code**	**one- and two-dimensional bar code**
Medication tracking offered via positive patient ID system/product **• Techniques used to read labels on medications**	**order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration** **one- and two-dimensional bar code**	**order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration** **one- and two-dimensional bar code, radio-frequency identification, scan patient wristband with RFID chip**
Handheld workstations **• Approximate size of handheld/point-of-care workstation** **• Approximate weight of handheld/point-of-care workstation** **• How handheld workstation communicates with host LIS** **• Systems ID-matching software runs on**	 **3 x 6 x 1.25 in.** **~11 oz.** **real-time radio frequency** **pocket PC**	 **n/a** **n/a** **—** **—**
Is system/product designed to be used with EKGs? **Is system/product designed to be used with glucometers or other point-of-care testing devices?**	**no** **no**	**no** **—**
FDA 510(k) approval **• Is positive patient ID system/product FDA 510(k) approved?** **• Have applied for, but not yet received, FDA 510(k) approval?** **• Intend to apply for FDA 510(k) approval?**	 **no** **—** **no**	 **—** **—** **unnecessary**
Required interface(s) **• Hospital information system interfaces** **• Laboratory information system interfaces**	**none** **—** **—**	**none** **McKesson, Siemens, Eclipsys, Misys, others** **McKesson, Siemens, Eclipsys, Misys, others**
Cost **• General license fee per facility** **• Single handheld workstation** **• Information system interface**	 **—** **—** **—**	 **—** **—** **—**
Distinguishing features (supplied by vendor)	**• system allows hospital to operate in a fully integrated environment—no interface is needed** **• offers error prevention beyond the five rights and enhances workflow** **• no redundant database build is needed because system is fully integrated with LIS**	**• no software** **• plug-and-play solution** **• tall man lettering for pharmacies**

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706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 114

Positive patient identification systems and products

Part 4 of 8

See accompanying article on page 108

	General Data Company **Ralph Moher** medinfo@general-data.com 4354 Ferguson Drive Cincinnati, OH 45254 513-752-7978 www.general-data.com/healthcare	Korchek Technologies LLC **Gregory Francis** service@korchek.com 30 Treeland Rd. Shelton, CT 06484 203-944-9556 www.korchek.com
Name of positive patient ID system/product	Personal ID	CareChek
Description of positive patient ID system/product	wristbands and software	bedside bar-code scanning
Company is a reseller of this product(s)?	sell General Data products and resell other vendors' products	sell Korchek products and resell other vendors' products
• For which vendors is company a reseller?	Symbol, Datamax, Sato, Citizen, Zebra	Symbol
Company sells its products through distribution partners?	yes	yes
• With which vendors does company partner?	TimeMed Labeling Systems, RMS Omega	Digi-Trax
First ever/most recent installation of positive patient ID system/product	2004/May 2006	2004/2004
No. of contracts for U.S. sites where system/product is installed, operational	20	1
No. of contracts for foreign sites where system/product is installed, operational	0	0
No. of contracts signed since May 1, 2005	2	—
No. of facilities where system/product is installed and operational	35	1
Techniques to verify patient ID when creating a wristband on admission	ID card with a photograph, bar code	n/a
Techniques for patient ID prior to each intervention/specimen collection	one- and two-dimensional bar-code wristband	one-dimensional bar-code wristband
• How RFID tag is affixed to patient	—	n/a
• Approximate dimensions of RFID tag	—	n/a
• Data fields on RFID tag or wristband	based on hospital needs	n/a
System functionality	—	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside, applied to tube	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; bar-code label placed on tube in tube manufacturing process
Data elements encoded on specimen label	accession No., date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.	accession No., container ID, specimen type, patient name, patient medical record No., date, tests ordered, patient account/admission No.
Bedside technology for blood transfusion offered via positive patient ID system/product	—	verification that a physician order is on record for the transfusion, verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record
• Symbology that system/product accepts for bedside transfusion	—	ISBT 128, Codabar
• Techniques for reading labels on blood units	—	one-dimensional bar code
Medication tracking offered via positive patient ID system/product	order for medication, intended recipient, correct dosage, route of administration	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration
• Techniques used to read labels on medications	one- and two-dimensional bar code	one-dimensional bar code
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	—	4 x 3 x 1 in.
• Approximate weight of handheld/point-of-care workstation	—	16 oz.
• How handheld workstation communicates with host LIS	—	HL7 real-time
• Systems ID-matching software runs on	—	general-purpose PC, pocket PC
Is system/product designed to be used with EKGs?	uncertain	no
Is system/product designed to be used with glucometers or other point-of-care testing devices?	yes	no
FDA 510(k) approval		
• Is positive patient ID system/product FDA 510(k) approved?	no	yes
• Have applied for, but not yet received, FDA 510(k) approval?	no	—
• Intend to apply for FDA 510(k) approval?	uncertain	—
Required interface(s)	HIS and LIS	none
• Hospital information system interfaces	Cerner, McKesson, Meditech	—
• Laboratory information system interfaces	Cerner, McKesson, Meditech, others	—
Cost		
• General license fee per facility	$25,000	~$2,000/handheld
• Single handheld workstation	—	included
• Information system interface	—	included
Distinguishing features (supplied by vendor)	• direct thermal wristbands are extremely durable and high resolution • incorporates linear and two-dimensional bar codes • can incorporate patient photographs	• specimen verification • wireless or hard-wired ethernet connection • Crystal Reports for sentinel events

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706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 115

SYSTEM REVIEW SERIES

Positive patient identification systems and products

Part 5 of 8

See accompanying article on page 108

	Lattice **Pat Heniff** pat.heniff@lattice.com **1751 S. Naperville Rd.** **Wheaton, IL 60187** **630-949-3250** www.lattice.com	McKesson **Stacy Block** stacy.block@mckesson.com **5995 Windward Parkway** **Alpharetta, GA 30005** **800-981-8601** infosolutions.mckesson.com
Name of positive patient ID system/product	MediCopia	Horizon MobileCare Phlebotomy
Description of positive patient ID system/product	compact handheld computing device	bar-code reading wireless handheld
Company is a reseller of this product(s)?	no	sell McKesson products and resell other vendors' products
• For which vendors is company a reseller?	—	Symbol
Company sells its products through distribution partners?	yes	no
• With which vendors does company partner?	information is proprietary	—
First ever/most recent installation of positive patient ID system/product	1996/2006	1989/2006
No. of contracts for U.S. sites where system/product is installed, operational	16	—
No. of contracts for foreign sites where system/product is installed, operational	0	—
No. of contracts signed since May 1, 2005	12	—
No. of facilities where system/product is installed and operational	38	12
Techniques to verify patient ID when creating a wristband on admission	bar code	n/a
Techniques for patient ID prior to each intervention/specimen collection	one- and two-dimensional bar-code wristband, passive radio-frequency identification, ADT feed providing patient census information	one- and two-dimensional bar-code wristband
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	—
System functionality	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion	general laboratory specimen collection
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside, applied to tube	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube
Data elements encoded on specimen label	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No., others	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.
Bedside technology for blood transfusion offered via positive patient ID system/product	verification that a physician order is on record for the transfusion, verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	—
• Symbology that system/product accepts for bedside transfusion	two-dimensional, ISBT 128, Codabar	—
• Techniques for reading labels on blood units	one- and two-dimensional bar code, radio-frequency identification	—
Medication tracking offered via positive patient ID system/product	order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration	—
• Techniques used to read labels on medications	one- and two-dimensional bar code	—
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	3 x 6 x 1 in.	1.3 x 3.1 x 5.7 in.
• Approximate weight of handheld/point-of-care workstation	11 oz.	10.8 oz.
• How handheld workstation communicates with host LIS	intermittent docking, real-time radio frequency	—
• Systems ID-matching software runs on	general-purpose PC, pocket PC	—
Is system/product designed to be used with EKGs?	yes	no
Is system/product designed to be used with glucometers or other point-of-care testing devices?	yes	no
FDA 510(k) approval		
• Is positive patient ID system/product FDA 510(k) approved?	no	not required
• Have applied for, but not yet received, FDA 510(k) approval?	yes	—
• Intend to apply for FDA 510(k) approval?	—	no
Required interface(s)	HIS and LIS	LIS
• Hospital information system interfaces	Epic, Cerner, Meditech, McKesson, TDS, IDX	n/a
• Laboratory information system interfaces	Misys, Cerner, Meditech, GE, SCC, McKesson	McKesson
Cost		
• General license fee per facility	based on No. of licensed beds	—
• Single handheld workstation	based on No. of caregivers	—
• Information system interface	based on which system is being interfaced	—
Distinguishing features (supplied by vendor)	• ability to operate in real-time wireless and batch environments • ease of use • offers backup when LIS or wireless network goes down	• integration with McKesson medication administration and blood transfusion ID systems on same handheld device • integration with Horizon Lab • wireless

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706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 116

SYSTEM REVIEW SERIES

Positive patient identification systems and products

Part 6 of 8

See accompanying article on page 108

	Misys Healthcare Systems Leigh Burchell, leigh.burchell@misyshealthcare.com 8529 Six Forks Rd. Raleigh, NC 27615 866-647-9787 www.misyshealthcare.com	Precision Dynamics Corp. Paula Moggio info@pdc-healthcare.com 13880 Del Sur St. San Fernando, CA 91304 818-897-1111 www.pdc-healthcare.com
Name of positive patient ID system/product	Misys Collection Manager	Smart Band RFID wristbands
Description of positive patient ID system/product	automates the specimen collection process while ensuring positive patient ID and accurate specimen labeling	wristband solutions
Company is a reseller of this product(s)?	no	sell PDC products and resell other vendors' products
• For which vendors is company a reseller?	—	Citizen, AMT, Cognitive
Company sells its products through distribution partners?	no	no
• With which vendors does company partner?	—	—
First ever/most recent installation of positive patient ID system/product	2004/2006	1984/2006
No. of contracts for U.S. sites where system/product is installed, operational	~40	1
No. of contracts for foreign sites where system/product is installed, operational	0	1
No. of contracts signed since May 1, 2005	20	2
No. of facilities where system/product is installed and operational	~40	2
Techniques to verify patient ID when creating a wristband on admission	—	ID card without a photograph, ID card with a photograph, bar code, RFID inlay, others
Techniques for patient ID prior to each intervention/specimen collection	one-dimensional bar-code wristband	passive radio-frequency identification
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	—
System functionality	general laboratory specimen collection	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside, applied to tube	bar-code label printed centrally, added to tube; radio-frequency tag printed centrally, added to tube; radio-frequency tag printed at bedside, applied to tube
Data elements encoded on specimen label	accession No., container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.	patient location, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.
Bedside technology for blood transfusion offered via positive patient ID system/product	—	verification that a physician order is on record for the transfusion, verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record
• Symbology that system/product accepts for bedside transfusion	—	radio-frequency identification
• Techniques for reading labels on blood units	—	radio-frequency identification
Medication tracking offered via positive patient ID system/product	—	order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration
• Techniques used to read labels on medications	—	radio-frequency identification
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	1.3 x 3.1 x 5.7 in.	7.5 x 4.3 x 3.1 in.
• Approximate weight of handheld/point-of-care workstation	10.5 oz.	—
• How handheld workstation communicates with host LIS	intermittent docking, real-time radio frequency	—
• Systems ID-matching software runs on	pocket PC, Windows CE 3.0, 4.0	general-purpose PC, pocket PC, palm handheld
Is system/product designed to be used with EKGs?	no	yes
Is system/product designed to be used with glucometers or other point-of-care testing devices?	no	yes
FDA 510(k) approval		
• Is positive patient ID system/product FDA 510(k) approved?	no	no
• Have applied for, but not yet received, FDA 510(k) approval?	—	no
• Intend to apply for FDA 510(k) approval?	unnecessary	unnecessary
Required interface(s)	LIS	none
• Hospital information system interfaces	—	Meditech, Siemens, Cerner, IBM
• Laboratory information system interfaces	Misys	Meditech, Misys
Cost		
• General license fee per facility	—	based on No. of patients at $1.25 per patient
• Single handheld workstation	—	$1,200–$1,400
• Information system interface	—	$300–$500
Distinguishing features (supplied by vendor)	• integrated with Misys Laboratory • performs in a wireless and wired environment and provides easy download capabilities as well as device-specific settings for unit/facility flexibility • simplified user interface	• patented RFID wristbands • successful research trials • customizable solution-based products

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706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 117

SYSTEM REVIEW SERIES

Positive patient identification systems and products

Part 7 of 8

See accompanying article on page 108

	Precision Dynamics Corp. Paula Moggio info@pdc-healthcare.com 13880 Del Sur St. San Fernando, CA 91304 818-897-1111 www.pdc-healthcare.com	Sato America Jamie Stallings jamies@satoamerica.com 10350 Nations Ford Rd. Charlotte, NC 28273 704-644-1650 ext. 1223 satohealthcareid.com/
Name of positive patient ID system/product	bar-code wristbands	Label Gallery HealthCare
Description of positive patient ID system/product	wristband solutions	direct thermal wristbands, medical record labels, pathology labels, facesheet/consent forms
Company is a reseller of this product(s)?	sell PDC products and resell other vendors' products	no
• For which vendors is company a reseller?	Citizen, AMT, Cognitive	—
Company sells its products through distribution partners?	yes	no
• With which vendors does company partner?	major GPOs, including Cardinal, MedAssets, HealthTrust	—
First ever/most recent installation of positive patient ID system/product	1984/2006	2002/2006
No. of contracts for U.S. sites where system/product is installed, operational	300–400	confidential
No. of contracts for foreign sites where system/product is installed, operational	—	confidential
No. of contracts signed since May 1, 2005	—	confidential
No. of facilities where system/product is installed and operational	500–800	confidential
Techniques to verify patient ID when creating a wristband on admission	ID card without a photograph, ID card with a photograph, bar code, RFID inlay, others	existing HIS security system
Techniques for patient ID prior to each intervention/specimen collection	one- and two-dimensional bar-code wristband	one- and two-dimensional bar-code wristband
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	—
System functionality	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration	patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration
Techniques for specimen identification at the time of specimen collection	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; peel-off label removed from wristband	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; bar-code label placed on tube in tube manufacturing process
Data elements encoded on specimen label	patient location, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.
Bedside technology for blood transfusion offered via positive patient ID system/product	verification that a physician order is on record for the transfusion, verification of informed patient consent, detection of potential mistransfusion, documentation of final transfusion record	documentation of final transfusion record
• Symbology that system/product accepts for bedside transfusion	two-dimensional, ISBT 128	two-dimensional, ISBT 128, Codabar
• Techniques for reading labels on blood units	one- and two-dimensional bar code	one- and two-dimensional bar code
Medication tracking offered via positive patient ID system/product	order for medication, intended recipient, history of allergies, correct dosage, route of administration, rate of administration	—
• Techniques used to read labels on medications	one- and two-dimensional bar code	one- and two-dimensional bar code
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	—	7.3 x 3.5 x 1.7 in.
• Approximate weight of handheld/point-of-care workstation	—	17–19.2 oz.
• How handheld workstation communicates with host LIS	—	real-time infrared, real-time radio frequency
• Systems ID-matching software runs on	—	general-purpose PC, pocket PC, palm handheld
Is system/product designed to be used with EKGs?	yes	yes
Is system/product designed to be used with glucometers or other point-of-care testing devices?	yes	yes
FDA 510(k) approval		
• Is positive patient ID system/product FDA 510(k) approved?	no	yes
• Have applied for, but not yet received, FDA 510(k) approval?	no	—
• Intend to apply for FDA 510(k) approval?	unnecessary	—
Required interface(s)	none	HIS and LIS
• Hospital information system interfaces	Cerner, McKesson, Meditech, IBM	Cerner, McKesson, Meditech, Siemens, others
• Laboratory information system interfaces	Misys, McKesson, Meditech, Cerner	unknown
Cost		
• General license fee per facility	—	none
• Single handheld workstation	—	—
• Information system interface	—	$750
Distinguishing features (supplied by vendor)	• full bar-code systems solutions, including media hardware and software • bar-code wristband solutions increase patient safety by reducing patient and specimen identification errors at the bedside • PDC introduced its first patient bar-code wristband over 20 years ago	• direct thermal, UV-shielded, adjustable wristbands using multicolored fasteners for alert status • no renewing or recurring license fees • print on demand, disaster recovery, mobile triage, ease of administration with no new admitting procedures to learn

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706_111-118_PozPatientSvy.qxd 6/30/06 12:45 PM Page 118

Positive patient identification systems and products

Part 8 of 8

See accompanying article on page 108

The St. John Companies
Adam Preisach apreisach@stjohninc.com
25167 Anza Drive
Santa Clarita, CA 91350
800-435-4242 www.stjohninc.com

Ultra-Scan Corp.
Colleen Was cwas@ultra-scan.com
4240 Ridge Lea Rd.
Amherst, NY 14226
716-832-6269 www.ultra-scan.com

Name of positive patient ID system/product	Conf-ID-ent and Bio-Logics	TouchLink
Description of positive patient ID system/product	wristbands, software, and point-of-care system	fingerprint biometrics with wristband capability
Company is a reseller of this product(s)?	sell St. John products and resell other vendors' products	sell Ultra-Scan products and resell other vendors' products
• For which vendors is company a reseller?	Avery Dennison Laserbands, TabBands, Precision Dynamics Corp.	Bio-Optronics
Company sells its products through distribution partners?	no	no
• With which vendors does company partner?	—	—
First ever/most recent installation of positive patient ID system/product	1973/May 2006	2000/2006
No. of contracts for U.S. sites where system/product is installed, operational	654	3
No. of contracts for foreign sites where system/product is installed, operational	0	1
No. of contracts signed since May 1, 2005	261	1
No. of facilities where system/product is installed and operational	654	8
Techniques to verify patient ID when creating a wristband on admission	ID card without a photograph, ID card with a photograph, bar code, RFID	fingerprint, PIN
Techniques for patient ID prior to each intervention/specimen collection	ID card, one- and two-dimensional bar-code wristband	one- and two-dimensional bar-code wristband, biometric (fingerprint)
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	—
System functionality	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, patient and medication matching prior to medication administration
Techniques for specimen identification at the time of specimen collection	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; peel-off label removed from wristband	bar-code label printed centrally, added to tube; bar-code label printed at bedside, applied to tube; peel-off label removed from wristband
Data elements encoded on specimen label	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.	accession No., patient location, container ID, date, specimen type, tests ordered, patient name, patient account/admission No., patient medical record No.
Bedside technology for blood transfusion offered via positive patient ID system/product	verification that a physician order is on record for the transfusion, verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	—
• Symbology that system/product accepts for bedside transfusion	two-dimensional, ISBT 128, Codabar	—
• Techniques for reading labels on blood units	one- and two-dimensional bar code, radio-frequency identification	—
Medication tracking offered via positive patient ID system/product	order for medication, intended recipient, history of allergies, correct dosage	—
• Techniques used to read labels on medications	one- and two-dimensional bar code, radio-frequency identification	—
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	5 x 3 x 1 in.	—
• Approximate weight of handheld/point-of-care workstation	6.5 oz.	—
• How handheld workstation communicates with host LIS	no communication	—
• Systems ID-matching software runs on	general-purpose PC, pocket PC, palm handheld	—
Is system/product designed to be used with EKGs?	no	no
Is system/product designed to be used with glucometers or other point-of-care testing devices?	yes	no
FDA 510(k) approval		
• Is positive patient ID system/product FDA 510(k) approved?	no	no
• Have applied for, but not yet received, FDA 510(k) approval?	no	no
• Intend to apply for FDA 510(k) approval?	uncertain	no
Required interface(s)	none	none
• Hospital information system interfaces	Cerner, McKesson, Misys, Meditech, Siemens	Siemens, Meditech
• Laboratory information system interfaces	Cerner, McKesson, Misys, Meditech, Siemens	—
Cost		
• General license fee per facility	$2,495	—
• Single handheld workstation	$1,385	—
• Information system interface	$2,500/day	—
Distinguishing features (supplied by vendor)	• stand-alone application • cost effective • easy to use and integrate into hospital environment	

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