July 2008 19 / CAP TODAY

vices began evaluating patient identification systems for general phlebotomy four years ago and now uses the Sunquest Collection Manager, says Yvonne Betts, laboratory business director. The laboratory turned to Sunquest because it was already using the vendor's LIS, and Collection Manager is an add-on module to the LIS.

"We had experience with bar-coding technology for identification in our point-of-care instrumentation," explains CentraCare's An-



Johnson

gell. "For general phlebotomy, however, we would carry multiple patient labels or requisitions with us to compare to the demographic data on the patient wristband. At times, information was verbally conveyed from the phlebotomy dispatching area via phone or pager. As the result of the potential for

error inherent in this system, we were seeing about a dozen errors or more per quarter."

Though the laboratory has not yet quite reached zero errors, Collection Manager itself has yet to make a mistake. "The errors that have occurred have been caused by the user—not the system," Angell says.

Laboratory Director Cindy Johnson says the system's speed is remarkable. "It generates faster turnaround time because it populates the orders coming from the hospital's order transmittal interface in real time," she explains.

CentraCare's physicians have praised the system's speed, Johnson says, adding that this real-time environment is a big switch from the dispatching, phone calls, and messages required previously.

The laboratory plans to extend the system to the local nursing homes it services, Angell says. "That's an area where we struggle with identifying patients. Their ability to communicate is one component, but any type of wristband

identification is essentially nonexistent."

The all-wireless system has worked so well that it has drawn interest from many other parts of the health system, including the critical care and emergency departments. "In our emergency trauma center, we train the staff who



Luttre

perform phlebotomy," explains Angell. "But they don't currently use this type of technology there, and we still see a certain level of patient and sample identification errors on that unit as a result."

urLadyoftheLakeRegionalMedicalCenter adopted a patient identification system in 1999, says Nancy Luttrell, clinical nurse specialist and director of nursing informatics for the 750-bed community hospital in Baton Rouge, La.

"We were an early adopter," she says. "We partnered with Cerner in 1999 because we shared their vision of an integrated medical record."

Now the hospital relies on a Cerner suite of products, including the patient identification system for medication administration and specimen collection.

"What we've seen is an increase in the reporting of near misses with medication admin-

Part 1 of 9	Cardinal Health (formerly Care Fusion) Rob Finizio robert.finizio@carefusion.com 12120 Sunset Hills Rd., third floor
See accompanying article, page 16	Reston, VA 20190 571-521-8937
See survey of printers/labels for positive patient ID, page 32	www.cardinal.com/us/en/brands/carefusion/
Name of positive patient ID system/product	CareFusion medication administration, specimen collection verification, transfusion verification
Components of positive patient ID system/product	bar-code-enabled medication administration, specimen collection, blood administration (also printers, page 32)
Company is a reseller of this product(s)?	no
 For which vendors is company a reseller? Company sells its products through distribution partners? With which vendors does company partner? 	yes —
First ever/most recent installation of positive patient ID system/product	2002/2008
Date of last major product release No. of contracts for U.S. sites where system/product is installed and operational	spring 2008 18 (medication administration), 36 (specimen collection verification),
No. of contracts for foreign sites where system/product is installed and	16 (transfusion verification) 0
operational No. of contracts signed since May 1, 2007	32
No. of facilities where system/product is installed and operational	63
Techniques to verify patient ID when creating a wristband on admission	_
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, manual
How RFID tag is affixed to patient	entry of wristband ID No. —
Approximate dimensions of RFID tag	_
Data fields on RFID tag or wristband	any demographic information
System functionality	general laboratory specimen collection, patient and medication matching prior to medication administration, patient and blood unit matching prior to blood transfusion, nursing data collection
Techniques for specimen identification at the time of specimen collection	bar-code label printed centrally and added to tube, radio-frequency ID tag created centrally and added to tube, radio-frequency ID tag placed on tube in tube manufacturing process, bar-code label printed at bedside and applied to
Data elements encoded on specimen label	tube, peel-off label removed from wristband, radio-frequency ID tag created at bedside and applied to tube accession No., container ID, specimen type, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No., specimen collection requirements, tube type
Bedside technology for blood transfusion offered via positive patient ID	verification that a physician order is on record for the transfusion,
system/product	verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation
Symbology that system/product accepts for bedside transfusion	of final transfusion record two-dimensional, Codabar, ISBT 128, manual entry of bar code
• Techniques for reading labels on blood units	one- and two-dimensional bar code, radio-frequency ID, manual
Medication tracking offered via positive patient ID system/product	order for medication, history of allergies, route of administration, intended
Techniques used to read labels on medications	recipient, correct dosage, rate of administration one- and two-dimensional bar code, radio-frequency ID
Handheld workstations	
 Approximate size of handheld/point-of-care workstation Approximate weight of handheld/point-of-care workstation 	3 x 5.5 in. 11 oz.
How handheld workstation communicates with host LIS Systems that ID-matching software runs on	real-time infrared (802.11a, 802.11b, 802.11g) general-purpose PC, pocket PC, mobile tablet 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?	no no
FDA 510(k) approval • Is positive patient ID system/product FDA 510(k)	yes
approved? • Have applied for, but not yet received, FDA 510(k)	_
approval? • Intend to apply for FDA 510(k) approval?	_
Hospital and laboratory information system interface(s)	Meditech, Cerner, Siemens, Misys, IDX, Mediware, McKesson, GE, Eclipsys,
Cost	Sunquest, SCC Soft Computer, Wyndgate
General license fee per facility Single handheld workstation Information system interface	=
-	a transfusion varification, shillfur to use regid infusion workflow to
Distinguishing features (supplied by vendor)	transfusion verification: ability to use rapid infusion workflow to document and verify blood products in the operating room specimen collection verification: allow laboratory and other locations to monitor the status of collections in real time dispatcher or collector can assign and unassign collection lists to
	phlebotomists by unit, collector, or patient ID

·			
	Cerner Bridge Medical	Cerner Corp.	
Part 2 of 9	Regan Baron regan.baron@cerner.com	Regan Baron regan.baron@cerner.com	
	2900 Rockcreek Parkway Kansas City, MO 64136	2900 Rockcreek Parkway Kansas City, M0 64136	
See accompanying article, page 16	816-885-4273	816-885-4273	
See survey of printers/labels for positive patient ID, page 32	www.cerner.com	www.cerner.com	
Name of positive patient ID system/product	Cerner Bridge Medical	Cerner Millennium CareAdmin, CareMobile, Specimen Collection,	
Name of positive patient to system/product		CareAware for CareMobile	
Components of positive patient ID system/product	software for positive ID of medications, specimen collections, blood transfusions; programming of IV smart pumps	software for positive ID of medications, specimen collections; programming of IV smart pumps	
Company is a reseller of this product(s)? • For which vendors is company a reseller?	sell Cerner products and resell other vendors' products Honeywell, Motorola, Intermec, others	sell Cerner products and resell other vendors' products Honeywell, Motorola, Intermec, IBM, Dell, others	
Company sells its products through distribution partners? • With which vendors does company partner?	no 	no 	
First avar/most recent installation of positive nation! ID system/product	1998/2008	2000/2008	
First ever/most recent installation of positive patient ID system/product Date of last major product release	April 2008	2000/2008 April 2007	
No. of contracts for U.S. sites where system/product is installed and operational	<u>-</u>	<u>-</u>	
No. of contracts for foreign sites where system/product is installed and operational No. of contracts signed since May 1, 2007	_	_	
No. of facilities where system/product is installed and operational	60	 41	
Techniques to verify patient ID when creating a wristband on admission	wristband reseller: ID card with or without a photograph, bar code	wristband reseller: ID card with or without a photograph, bar code	
Techniques for patient ID prior to each intervention/specimen collection	one- and two-dimensional bar-code wristband, passive and active radio-frequency identification, fingerprint	ID card, one- and two-dimensional bar-code wristband, fingerprint, passive and active radio-frequency identification	
How RFID tag is affixed to patient	wristband	wristband	
Annroyimate dimensions of RFID tag	_	_	
Approximate dimensions of RFID tag Data fields on RFID tag or wristband	encounter-specific No. (e.g., financial No.), can accommodate any	encounter-specific No. (e.g., financial No.), can accommodate any	
	request	request	
System functionality	general laboratory specimen collection, patient and medication matching prior to medication administration, patient and blood unit matching prior to blood transfusion, IV smart pump programming	general laboratory specimen collection, patient and medication matching prior to medication administration, EKG reporting, IV smart pump programming	
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside and applied to tube	bar-code label printed centrally and added to tube, bar-code label printed at bedside and applied to tube	
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No.	accession No., container ID, specimen type, patient name, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No.	
Bedside technology for blood transfusion offered via positive patient ID system/product • Symbology that system/product accepts for bedside transfusion	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 two-dimensional, Codabar, ISBT 128	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 two-dimensional, Codabar, ISBT 128	
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 Techniques used to read labels on medications	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration one- and two-dimensional bar code	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration one- and two-dimensional bar code	
Handheld workstations			
Approximate size of handheld/point-of-care workstation Approximate weight of handheld/point-of-care workstation	t t	_t _t	
Approximate weight of handheld/point-of-care workstation How handheld workstation communicates with host LIS	real-time infrared (802.11a, 802.11b, 802.11g)	—' real-time infrared (802.11a, 802.11b, 802.11g)	
Systems that ID-matching software runs on	general-purpose PC, pocket PC	general-purpose PC, 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?	no no	yes no	
FDA 510(k) approval			
Is positive patient ID system/product FDA 510(k) approved?	yes	no	
Have applied for, but not yet received, FDA 510(k) approval?	no	no	
• Intend to apply for FDA 510(k) approval?	unnecessary	yes	
Hospital and laboratory information system interface(s)	Sunquest, Cerner, Meditech, McKesson, Siemens, Pyxis, Eclipsys, A4, IDX, Mediware, GE	no interfaces required (integrated with Millennium solutions)	
Cost			
General license fee per facility Single handheld workstation Information system interface	=	=	
Distinguishing features (supplied by vendor)	No. 1 KLAS-ranked vendor in medication administration specialty niche category for the last three of four years integrated medication reconciliation process provides complete support for JCAHO mandates Bridge IV smart pump auto-programming functionality is live and installed	can alert for lab/drug interactions real time at the point of scan can use real-time checking on ad hoc or stat orders with electronic co-signature of those orders ability to auto-program infusion devices and accept data from bedside devices for inclusion in the electronic health record	
	[†] software can be used on any full-screen device or on handheld device with pocket PC	† software can be used on any handheld device with pocket PC or with tablets or full-screen PCs	
abulation does not represent an endorsement by the College of American Pathologists			

Part 3 of 9	DataRay Brent Scales brents@datarayusa.com 1141 S.E. Grand Blvd., Suite 107 Oklahoma City, OK 73129	Endur ID Robert Chadwick bchadwick@endurid.com 360 Merrimack St., Bldg. 9 Lawrence, MA 01843	
See accompanying article, page 16 See survey of printers/labels for positive patient ID, page 32	800-477-5317 www.datarayusa.com	978-686-9700 www.endurid.com	
Name of positive patient ID system/product	bar-code integration solution, DataRay Healthcare Advanced Printserver, DataRay MedMap	Endur ID	
Components of positive patient ID system/product	intelligent print server, bar-code scanners, RFID wristbands (also printers/labels, page 32)	wristbands (also printer labels, page 32)	
Company is a reseller of this product(s)? • For which vendors is company a reseller?	sell DataRay products and resell other vendors' products Zebra Technologies, Code Corp., Metrologic, Motorola, Honeywell, Intermec, CipherLab, PDC	sell Endur ID products and resell other vendors' products Bio-Optronics	
Company sells its products through distribution partners? • With which vendors does company partner?	yes —	<u>no</u>	
First ever/most recent installation of positive patient ID system/product Date of last major product release No. of contracts for U.S. sites where system/product is installed and operational	1986/2008 December 2007 57	2003/2008 April 2008 32	
No. of contracts for foreign sites where system/product is installed and operational No. of contracts signed since May 1, 2007	2 (Canada) 15	0 5	
No. of facilities where system/product is installed and operational	94	23	
Techniques to verify patient ID when creating a wristband on admission	bar code	ID card with or without a photograph, face recognition, photograph on wristband, bar code	
Techniques for patient ID prior to each intervention/specimen collection	one- and two-dimensional bar-code wristband, passive radio-frequency identification	one- and two-dimensional bar-code wristband	
How RFID tag is affixed to patient	wristband	_	
Approximate dimensions of RFID tag	2 x 1 in.	_	
Data fields on RFID tag or wristband	patient account/admission No., medical record No., will accommodate hospital specifications	_	
System functionality	_	general laboratory specimen collection, patient and medication matching prior to medication administration, bedside point-of-care testing, patient and blood unit matching prior to blood transfusion	
Techniques for specimen identification at the time of specimen collection	bar-code label printed centrally and added to tube, radio-frequency ID tag created centrally and added to tube, bar-code label printed at bedside and applied to tube, radio-frequency ID tag created at bedside	bar-code label printed centrally and added to tube, bar-code label printed at bedside and applied to tube, peel-off label removed from wristband	
Data elements encoded on specimen label	and applied to tube —	accession No., patient name, patient location, date, patient account/ admission No., patient medical record No., other patient identifiers	
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	
Symbology that system/product accepts for bedside transfusion	two-dimensional, Codabar, ISBT 128	of final transfusion record two-dimensional, Codabar, ISBT 128	
Techniques for reading labels on blood units	one- and two-dimensional bar code, radio-frequency ID	one- and two-dimensional bar code	
Medication tracking offered via positive patient ID system/product • Techniques used to read labels on medications	— one- and two-dimensional bar code, radio-frequency ID	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration 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		n/a n/a n/a	
Systems that ID-matching software runs on	_	general-purpose PC, 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	uncertain yes	
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 uncertain	no no unnecessary	
Hospital and laboratory information system interface(s)	Siemens, McKesson, Eclipsys, TDS, Cerner, Meditech, Misys, others	Meditech, McKesson, Siemens, Cerner	
Cost General license fee per facility Single handheld workstation		_	
Information system interface Distinguishing features (supplied by vendor)	DataRay PPID and bar-code integration solution includes the DataRay Advanced Printserver that provides plug-and-play thermal wristband and label printing on any hospital information system offer a wide range of optional components to meet the specific requirements of DataRay's hospital and pharmacy customers DataRay Integration Services assists health care organizations with project planning, on-site implementation, end user training, barcode workaround prevention, and workflow process integration	flexible and user-configurable for a variety of facility types wristband media are designed to be easy to produce and easy to use—carry a host of patient-centric information and require no assembly eliminates the need for additional color-coded alerts and warnings by incorporating the information into the primary identification wristbands	

	Part 4 of 9	General Data Company Ralph Moher moher@general-data.com 4354 Ferguson Drive	General Data Company Ralph Moher moher@general-data.com 4354 Ferguson Drive	
	See accompanying article, page 16	Cincinnati, OH 45245 800-733-5252	Cincinnati, OH 45245 800-733-5252	
	See survey of printers/labels for positive patient ID, page 32	www.general-data.com/healthcare	www.general-data.com/healthcare	
	Name of positive patient ID system/product	ID/Positive laboratory specimen identification and tracking	Personal ID patient identification wristbands	
	Components of positive patient ID system/product	cassette markers, cassettes (also printers/labels, page 32)	wristbands, middleware (also printers/labels, page 32)	
	Company is a reseller of this product(s)? • For which vendors is company a reseller?	sell General Data products and resell other vendors' products —	sell General Data products and resell other vendors' products —	
	Company sells its products through distribution partners? • With which vendors does company partner?	yes TimeMed Labeling Systems	yes TimeMed Labeling Systems	
Ī	First ever/most recent installation of positive patient ID system/product	2004/2008	2004/2008	
No. of contracts for U.S. sites where system/product is installed and operational		April 2008 188	October 2007 117	
	No. of contracts for foreign sites where system/product is installed and operational No. of contracts signed since May 1, 2007		- 15	
_	No. of facilities where system/product is installed and operational	220	142	
	Techniques to verify patient ID when creating a wristband on admission	bar code, patient photograph	bar code, patient photograph	
	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	_	_	
	Techniques for specimen identification at the time of specimen collection	_	_	
	Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, collector ID, patient location, date, tests ordered, patient account/admission	_	
		No., patient medical record No., any data specified by the lab		
ŀ	Bedside technology for blood transfusion offered via positive patient ID system/product	_	_	
	Symbology that system/product accepts for bedside transfusion	_	_	
	a Tashninuan fau vandinu labele en bland unite			
	Techniques for reading labels on blood units	_		
	Medication tracking offered via positive patient ID system/product	_	_	
	Techniques used to read labels on medications	-	_	
	Handheld workstations			
	Approximate size of handheld/point-of-care workstation Approximate weight of handheld/point-of-care workstation	Ξ	=	
	How handheld workstation communicates with host LIS	_	_	
-	Systems that ID-matching software runs on	_	_	
	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		
	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? Hospital and laboratory information system interface(s)	Cerner, McKesson, Misys, Impac	Corner Mekacaan Misua	
	Hospital and laboratory information system interface(s)	oomo, moroson, misys, impac	Cerner, McKesson, Misys	
	Cost • General license fee per facility	_	_	
	Single handheld workstation	Ξ	Ξ	
-	Information system interface Distinguishing features (supplied by vendor)	reliable, permanent, and cost-effective bar-code identification of	can integrate bar-code wristband printing into existing hospital	
	organisming reactines (supplied by vendor)	tissue cassettes and slides	information system without modifying HIS	
	on-demand cassette and slide production eliminates mismatching		wristbands are extremely durable and provide excellent scanning of bar codes	
			can use any thermal printer from any manufacturer	
L				

	Intellidot Corp.	Korchek Technologies, LLC	
Part 5 of 9	Michael Donner mdonner@intellidotcorp.com 13520 Evening Creek Drive North, #400	Matt Lund matt@korchek.com 115 Technology Drive, Suite B206	
	San Diego, CA 92128	Trumbull, CT 06611	
See accompanying article, page 16 See survey of printers/labels for positive patient ID, page 32	877-368-3687 www.intellidotcorp.com	877-567-2435 www.korchek.com	
<u> </u>	·		
Name of positive patient ID system/product	CAREt	CareChek	
Components of positive patient ID system/product	handheld device for medication administration, laboratory specimen collection, vital sign collection, others	workstations, servers, others	
Company is a reseller of this product(s)? • For which vendors is company a reseller?	no	sell Korchek products and resell other vendor's products Digi-Trax	
Company sells its products through distribution partners? • With which vendors does company partner?	yes —	yes Digi-Trax	
First ever/most recent installation of positive patient ID system/product Date of last major product release	2002/2008 April 2008	2004/2008 2008	
No. of contracts for U.S. sites where system/product is installed and operational		1	
No. of contracts for foreign sites where system/product is installed and operational No. of contracts signed since May 1, 2007	_	0	
No. of facilities where system/product is installed and operational	34	0	
Techniques to verify patient ID when creating a wristband on admission	bar code	bar code	
reconniques to verify patient to which oreating a wristband on admission	bui couc	bui couc	
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	_	_	
A Approximate dimensions of BEID to			
Approximate dimensions of RFID tag	_	_	
Data fields on RFID tag or wristband	_	_	
Custom functionality	named laboratory and the second secon		
System functionality	general laboratory specimen collection, patient and medication matching prior to medication administration, patient and blood unit matching prior to blood transfusion, others	general laboratory specimen collection, patient and medication matching prior to medication administration, patient and blood unit matching prior to blood transfusion, others	
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside and applied to tube	bar-code label printed centrally and added to tube, bar-code label placed on tube in tube manufacturing process, bar-code label printed at bedside and applied to tube, peel-off label removed from wristband	
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No., order type, container/tube description, patient date of birth, time of collection	accession No., container ID, specimen type, patient name, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No., user defined	
Bedside technology for blood transfusion offered via positive patient ID system/product	verification of informed patient consent, detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	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, Codabar, ISBT 128	two-dimensional, Codabar, ISBT 128	
Techniques for reading labels on blood units	one- and two-dimensional bar code	one-dimensional bar code	
Medication tracking offered via positive patient ID system/product	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate 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- and two-dimensional bar code	
Handheld workstations • Approximate size of handheld/point-of-care workstation	7 x 2.75 x 2.75 in.	5 x 3 x 1.5 in.	
Approximate size of nanonera/point-of-care workstation Approximate weight of handheld/point-of-care workstation	8.7 oz.	12 oz.	
How handheld workstation communicates with host LIS	real time (using 802.11b, 802.11g) via Intellidot servers interfaced to host LIS	intermittent docking (802.11b, 802.11g)	
Systems that ID-matching software runs on	nost LIS CAREt handheld	general-purpose PC, pocket PC, Windows Mobile 5.0	
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?	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?	— yes	yes —	
• Intend to apply for FDA 510(k) approval?	yes yes	_	
Hospital and laboratory information system interface(s)	Meditech, Cerner, Epic, McKesson, Eclipsys	_	
Cost			
General license fee per facility	_	_	
Single handheld workstation Information system interface		— included	
Distinguishing features (supplied by vendor)	 can link to any hospital information system 12+-hour battery life easy to use—learn in one shift; clinical implementation in four months 	 unique verification for specimen collection allows use of any specimen labels wireless or hard-wired configuration 	

July 2008 **27** / CAP TODAY

		•
	Lattice	McKesson
Part 6 of 9	Pat Heniff pat.heniff@lattice.com	Kerry Bruning kerry.bruning@mckesson.com
	1751 Naperville Rd.	5995 Windward Parkway
	Wheaton, IL 60187	Alpharetta, GA 30005
See accompanying article, page 16	630-949-3250	515-992-3186
See survey of printers/labels for positive patient ID, page 32	www.lattice.com	www.mckesson.com
Name of positive patient ID system/product	MediCopia	Horizon Admin-Rx
Name of positive patient to system/product	мешьоріа	norizon Admini-nx
Components of positive patient ID system/product	handheld computers, bedside specimen collection software (also	software to support positive patient ID and five rights of medication
	printers/labels, page 32)	administration
Company is a reseller of this product(s)?	no no	sell McKesson products and resell other vendor's products
• For which vendors is company a reseller?	-	Symbol Technologies
Company sells its products through distribution partners?	no	no e
With which vendors does company partner?	-	_
First ever/most recent installation of positive patient ID system/product	1996/2008	1988/2008
Date of last major product release	March 2008	March 2008
No. of contracts for U.S. sites where system/product is installed and operational	61	127 (an additional 21 in implementation phase)
No. of contracts for foreign sites where system/product is installed and operational	0	2 (Canada)
No. of contracts signed since May 1, 2007	22	17
No. of facilities where system/product is installed and operational	53	127
Techniques to verify patient ID when creating a wristband on admission	bar code	bar code
The state of the s		
Techniques for patient ID prior to each intervention/specimen collection	ID card, one- and two-dimensional bar-code wristband, passive	one- and two-dimensional bar-code wristband
	radio-frequency identification	
How RFID tag is affixed to patient	_	_
Approximate dimensions of RFID tag	_	_
Nata fields on RFID tag or wriethand	_	
Data fields on RFID tag or wristband		_
System functionality	general laboratory specimen collection, patient and blood unit	general laboratory specimen collection, patient and medication
	matching prior to blood transfusion	matching prior to medication administration, bedside point-of-care
		testing
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside and applied to tube	_
lectiniques for specimen identification at the time of specimen conection	bar-code label printed at bedside and applied to tube	
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, collector	_
, and the second	ID, patient location, date, tests ordered, patient account/admission	
	No., patient medical record No.	
Padaida tachnalagu far blood transfusion offered via positive nationt ID quatem/product	verification that a physician order is on record for the transfusion,	
Bedside technology for blood transfusion offered via positive patient ID system/product	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, Codabar, ISBT 128	_
Symbology and Systems product decopies for Bodeliae administration	tiro amonoronal, obdasal, ios i 120	
Techniques for reading labels on blood units	one- and two-dimensional bar code, radio-frequency identification	_
- reconstructed for reading labels on blood dilits	one and two dimensional bar code, radio frequency identification	
Madada Andrea Maria III and an analysis and a second		
Medication tracking offered via positive patient ID system/product	_	order for medication, history of allergies, route of administration,
• Toohniques used to read labels on mediactions		intended recipient, correct dosage, rate of administration one- and two-dimensional bar code
Techniques used to read labels on medications	_	งกซ ⁻ สกน เพง-นกกซกรเงกสก มิสิโ
Handheld workstations		
Approximate size of handheld/point-of-care workstation	6 x 3 x 1.5 in.	6 x 3.1 x 1.5 in.
Approximate weight of handheld/point-of-care workstation	12 oz.	12 oz.
How handheld workstation communicates with host LIS	-	protocol, 802.11b
Systems that ID-matching software runs on	general-purpose PC, pocket PC	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	no	no
point-of-care testing devices?		
FDA 510(k) approval	no	no
Is positive patient ID system/product FDA 510(k) approved? Have applied for, but not yet received, FDA 510(k) approval?	NO VAS	no
• have applied for, but not yet received, FDA 510(k) approval? • Intend to apply for FDA 510(k) approval?	yes —	— unnecessary
		u90000ui j
Hospital and laboratory information system interface(s)	Sunquest, GE, Cerner, Meditech, McKesson, SCC Soft Computer,	integrated with McKesson Horizon Clinicals clinical information
	homegrown LIS	system
Cost		
General license fee per facility	based on number of users and size of facility	size dependent
Single handheld workstation	based on number of users and size of facility	~ \$1,700/unit
Information system interface	based on number of users and size of facility	integrated with clinical information system
Distinguishing features (supplied by vendor)	prints specimen labels for drawn specimens only	complete integration with enterprise clinical information system
Distinguishing reatures (supplied by vehicul)	prints specimen labels for drawn specimens only operates in a wireless and batch environment	complete integration with enterprise clinical information system continuity of information flow from CPOE to pharmacy to
	easy to use	administration
	•	depth and history of experience

28 / CAP TODAY

July 2008

	McKesson	Precision Dynamics Corp.	
Part 7 of 9	Joseph R. Stabile joseph.stabile@mckesson.com	Adrienne Lamm info@pdcorp.com	
	5995 Windward Parkway	13880 Del Sur St.	
See accompanying article, page 16	Alpharetta, GA 30005 404-338-4363	San Fernando, CA 91340 818-897-1111	
See survey of printers/labels for positive patient ID, page 32	www.mckesson.com/laboratory	www.pdcorp.com/healthcare	
Name of an illinois at the ID and and an incident	Harinar Makila Oana Dhiahatanna	h	
Name of positive patient ID system/product	Horizon MobileCare Phlebotomy	bar-code wristbands	
Components of positive patient ID system/product	software to support positive patient ID for specimen collection, handheld devices, portable bar-code printers	CompuBand, ScanBand Sentry bar code, LabelBand Precision infant thermal bands, Precision bar-code tags (also printer labels, page 32)	
Company is a reseller of this product(s)? • For which vendors is company a reseller?	sell McKesson products and resell other vendors' products Symbol Technologies, Zebra Technologies	no —	
Company sells its products through distribution partners? • With which vendors does company partner?	<u>no</u>	yes Cardinal, Owens & Minor	
First ever/most recent installation of positive patient ID system/product	1988/2008	1984/2007	
Date of last major product release No. of contracts for U.S. sites where system/product is installed and operational	April 2008 20	2007	
No. of contracts for foreign sites where system/product is installed and operational	0	_	
No. of contracts signed since May 1, 2007	6	_	
No. of facilities where system/product is installed and operational	29	_	
Techniques to verify patient ID when creating a wristband on admission	bar code	ID card without a photograph, bar code	
		oa. aoa a poag.ap, aa. ooac	
Techniques for patient ID prior to each intervention/specimen collection	one-dimensional bar-code wristband	one- and two-dimensional bar-code wristband, passive radio-frequency identification	
How RFID tag is affixed to patient	_	wristband	
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 medication matching prior to medication administration, bedside point-of-care testing, patient and blood unit matching prior to blood transfusion	
Techniques for specimen identification at the time of specimen collection	bar-code label printed centrally and added to tube, bar-code label printed at bedside and applied to tube	bar-code label printed centrally and added to tube, bar-code label printed at bedside and applied to tube, peel-off label removed from wristband	
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No., others	_	
Bedside technology for blood transfusion offered via positive patient ID system/product	_	_	
Symbology that system/product accepts for bedside transfusion	_	two-dimensional, Codabar, 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, history of allergies, route of administration,	_	
a Techniques used to read labels on medications	intended recipient, correct dosage, rate of administration	one and two dimensional has ead-	
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	1.3 x 3.1 x 5.7 in.	_	
Approximate size of handheld/point-of-care workstation Approximate weight of handheld/point-of-care workstation	1.3 X 3.1 X 5.7 III. 10.8 oz.	_	
How handheld workstation communicates with host LIS	real-time radio frequency (802.11b, 802.11g)	_	
Systems that ID-matching software runs on	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?	no no	uncertain yes	
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?	no no		
• have applied for, but not yet received, FDA 510(k) approval? • Intend to apply for FDA 510(k) approval?	no unnecessary	_	
	·		
Hospital and laboratory information system interface(s)	add-on module to McKesson Horizon Lab	Meditech, Cerner, McKesson	
Cost	aiza danandant		
General license fee per facility Single handheld workstation	size dependent ~ \$1,700/unit		
Information system interface	integrated with laboratory information system	_	
Distinguishing features (supplied by vendor)	co-exists with McKesson's medication administration and vitals/intake and output on the same handheld device integrated with Horizon Lab supports nurse-centric and lab-centric collection models with support for preprinted and point-of-care-printed specimen labels	 crisp, clear, human readable text; compliant bar codes (linear and 2D) that can be scanned easily; photo ID and graphics for enhanced patient ID meets the requirements of JCAHO for positive patient ID, HIPAA for protection of patient privacy, and AHA to reduce the risk of lost or transferred data pioneering in patient safety through positive identification 	

	Siemens Medical	Sunquest Information Systems	
Part 8 of 9	Theresa McGillvray-Dodd	Sylvia Rothrock sylvia.rothrock@sunquestinfo.com	
	theresa.mcgillvray-dodd@siemens.com	250 S. Williams Blvd.	
	18724 66th Ave. N.E.	Tucson, AZ 85711	
See accompanying article, page 16	Kenmore, WA 98028	877-239-6337	
See survey of printers/labels for positive patient ID, page 32	425-487-0179	www.sunquestinfo.com	
Name of positive patient ID system/product	Patient Identification Check (PIK)	Sunquest Collection Manager	
		1	
Components of positive patient ID system/product	wristbands, handheld, bar coding	handhelds, laptops, computer on wheels (also printers/labels,	
		page 32)	
Company is a reseller of this product(s)?	yes	no	
For which vendors is company a reseller?	Zebra Technologies, Motorola	—	
Tot White Volucio is company a reconst.	20514 1001110109100, INOLOTOIA		
Company cells its avaduate through distribution neutrons?	ma		
Company sells its products through distribution partners? • With which vendors does company partner?	<u>no</u>	<u>no</u>	
That this tond to door company parallel.			
First ever/most recent installation of positive patient ID system/product	2005/2007	2004/2008	
Date of last major product release	2007	May 2007	
No. of contracts for U.S. sites where system/product is installed and operational No. of contracts for foreign sites where system/product is installed and operational	7	76	
No. of contracts signed since May 1, 2007		0 7	
No. of facilities where system/product is installed and operational	7	, ~90	
10.01 10.01 10.01 0 3,500 11 p. 10.01 0 10.01			
Techniques to verify patient ID when creating a wristband on admission	bar code	_	
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 medication	general laboratory specimen collection	
	matching prior to medication administration, bedside point-of-care testing, patient and blood unit matching prior to blood transfusion		
	testing, patient and blood unit matching prior to blood transitision		
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside and applied to tube	bar-code label printed centrally and added to tube, bar-code label	
		printed at bedside and applied to tube	
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, collector	accession No., container ID, specimen type, patient name, patient	
	ID, patient location, date, tests ordered	location, date, tests ordered, 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,		
Bedside technology for blood transfusion offered via positive patient ID system/product	detection of potential mistransfusion, documentation of transfusion		
Bedside technology for blood transfusion offered via positive patient ID system/product	· •		
	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record		
Bedside technology for blood transfusion offered via positive patient ID system/product Symbology that system/product accepts for bedside transfusion	detection of potential mistransfusion, documentation of transfusion	_	
	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	_	
	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	_	
Symbology that system/product accepts for bedside transfusion	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128	_	
	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record	_	
Symbology that system/product accepts for bedside transfusion	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128	_	
Symbology that system/product accepts for bedside transfusion	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128	_	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code	_	
Symbology that system/product accepts for bedside transfusion	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct	_	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage	_	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct		
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage		
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications Handheld workstations	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code		
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications Handheld workstations Approximate size of handheld/point-of-care workstation	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code		
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications Handheld workstations Approximate size of handheld/point-of-care workstation Approximate weight of handheld/point-of-care workstation	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz.	10.5 oz.	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g)	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications Handheld workstations Approximate size of handheld/point-of-care workstation Approximate weight of handheld/point-of-care workstation	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz.	10.5 oz.	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g)	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on Is system/product designed to be used with EKGs?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? FDA 510(k) approval	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 — no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? FDA 510(k) approval Is positive patient ID system/product FDA 510(k) approved?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? FDA 510(k) approval	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 — no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? FDA 510(k) approval Is spositive 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?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 — no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? FDA 510(k) approval Is spositive 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?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? FDA 510(k) approval Is spositive 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?	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Intend to apply for FDA 510(k) approval? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Intend to apply for FDA 510(k) approval? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes no	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no solution of the control of the contro	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Intend to apply for FDA 510(k) approval? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes Siemens, Cerner, Sunquest, Meditech	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no unnecessary	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Intend to apply for FDA 510(k) approval? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes Siemens, Cerner, Sunquest, Meditech label alignment guide helps ensure proper alignment of bar code for instrument readability container verification helps ensure sample is collected in correct	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no solution of the control of the contr	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Hospital and laboratory information system interface(s) Cost General license fee per facility Single handheld workstation Information system interface	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes Siemens, Cerner, Sunquest, Meditech label alignment guide helps ensure proper alignment of bar code for instrument readability container verification helps ensure sample is collected in correct container	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no no unnecessary Sunquest	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Intend to apply for FDA 510(k) approval? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes Siemens, Cerner, Sunquest, Meditech label alignment guide helps ensure proper alignment of bar code for instrument readability container verification helps ensure sample is collected in correct	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no no unnecessary Sunquest	
Symbology that system/product accepts for bedside transfusion Techniques for reading labels on blood units Medication tracking offered via positive patient ID system/product Techniques used to read labels on medications 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 that ID-matching software runs on 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? 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? Intend to apply for FDA 510(k) approval? Hospital and laboratory information system interface(s)	detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record two-dimensional, Codabar, ISBT 128 one- and two-dimensional bar code order for medication, history of allergies, intended recipient, correct dosage two-dimensional bar code 8 in. 4 oz. protocol, 802.11a, 802.11b, 802.11g general-purpose PC, Windows CE, Windows Mobile 5.0 no yes Siemens, Cerner, Sunquest, Meditech label alignment guide helps ensure proper alignment of bar code for instrument readability container verification helps ensure sample is collected in correct container	10.5 oz. intermittent docking (802.11a, 802.11b, 802.11g) general-purpose PC, Windows CE 3.0, Windows CE 4.0 no no no no unnecessary Sunquest	

July 2008 31 / CAP TODAY

Part 9 of 9	The St. John Companies customer service cs@stjohninc.com	Ultra-Scan Corp. Michael Amalfi mamalfi@ultra-scan.com
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25167 Anza Drive	4240 Ridge Lea Rd.
Con accommonation article 10	Valencia, CA 91355	Amherst, NY 14226
See accompanying article, page 16 See survey of printers/labels for positive patient ID, page 32	800-435-4242 www.patientidexpert.com	716-832-6269 www.ultra-scan.com
Name of positive patient ID system/product	Bio-Logics	TouchLink Biometric EMPI
Components of positive patient ID system/product	wristbands (also printer labels, page 32)	biometric fingerprint reader, digital camera, wristbands (also printers/labels, page 32)
Company is a reseller of this product(s)? • For which vendors is company a reseller?	sell St. John products and resell other vendors' products Avery Dennison, TabBand	no —
Company sells its products through distribution partners? • With which vendors does company partner?	no —	no —
First ever/most recent installation of positive patient ID system/product	1973/—	2004/in progress
Date of last major product release	_	June 2007
No. of contracts for U.S. sites where system/product is installed and operational No. of contracts for foreign sites where system/product is installed and operational	654 0	3
No. of contracts signed since May 1, 2007	<u>~</u>	i
No. of facilities where system/product is installed and operational	654	6
Techniques to verify patient ID when creating a wristband on admission	ID card with and without a photograph, bar code	fingerprint, patient photo on wristband, bar code
Techniques for patient ID prior to each intervention/specimen collection	ID card, one- and two-dimensional bar-code wristband	one-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 medication matching prior to medication administration, patient and blood unit matching prior to blood transfusion	_
Techniques for specimen identification at the time of specimen collection	bar-code label printed at bedside and applied to tube	_
l		
Data elements encoded on specimen label	_	_
Bedside technology for blood transfusion offered via positive patient ID system/product	_	_
Symbology that system/product accepts for bedside transfusion	_	_
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Techniques for reading labels on blood units	_	_
Medication tracking offered via positive patient ID system/product	_	_
Techniques used to read labels on medications	_	_
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 that ID-matching software runs on	_	general-purpose PC, pocket PC, palm handheld, Linux,
		Windows Mobile 5.0
Is system/product designed to be used with EKGs? Is system/product designed to be used with glucometers or other	_	no no
point-of-care testing devices?		
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?	_	no no
• Intend to apply for FDA 510(k) approval?	-	unnecessary
Hospital and laboratory information system interface(s)	_	Siemens, Meditech
Cont		
Cost • General license fee per facility	_	based on No. of patients in ID database
Single handheld workstation	=	Ξ
• Information system interface		
Distinguishing features (supplied by vendor)	distinguishing features not provided	 accurate real-world patient identification technology using state-of-the-art ultrasonic imaging for reading patient fingerprints biometric patient identification system can be integrated into an existing EMR without the cost or oversight associated with involving the EMR vendor designed to reduce fraud, speed patient registration, and improve
		overall patient experience

Printers/labels for positive patient identification

Company contact information	Product(s) for positive patient ID	Year company entered market	Percentage of customer base in U.S. Outside U.S.	Printer reseller? Brand name of printers	Labels reseller? Brand name of labels	Distinguishing characteristics of printers and labels
AMT Datasouth Kim Stovall, kstovall@amtdatasouth.com 803 Camarillo Springs Rd., Suite D Camarillo, CA 93012 800-215-9192 www.amtdatasouth.com	printers and labels	1990	100%	no ————————————————————————————————————	yes from various vendors	printers: intelligent printers that are compatible with all software platforms labels: can provide any size and variety of label materials
Cardinal Health (formerly Care Fusion) Robert Finizio, robert.finizio@cardinalhealth.com 12120 Sunset Hills Rd., Third Floor Reston, VA 20190 571-521-8937 www.cardinal.com/us/en/brands/carefusion/	printers	2003	-	yes Zebra QL 220, 320, and O'Neil 2t	_	printers: durable and lightweight
DataRay Brent Scales, brent@datarayusa.com 1141 S.E. Grand Blvd., Suite 107 Oklahoma City, OK 73129 800-477-5317 www.datarayusa.com	printers and labels	1986	97% 3%	yes Zebra Technologies	yes Zebra Technologies (also sell labels for DataRay Foam Newborn & Preemie Bands)	printers: designed specifically for bar coding; long-lasting, durable bar codes; cost efficient and reliable labels: antimicrobial coating to resist infection-causing bacteria (including MRSA); direct thermal polypropylene media produce lasting, durable bar codes with exceptional readability
Endur ID Robert Chadwick, bchadwick@endurid.com 360 Merrimack St., Bldg. 9 Lawrence, MA 01843 978-686-9700 www.endurid.com	labels	2003	95%	_	no Endur ID	labels: waterproof; no assembly; produced using standard desktop laser printers
General Data Company Ralph Moher, moher@general-data.com 4354 Ferguson Drive Cincinnati, OH 45245 800-733-5252 www.general-data.com/healthcare	printers and labels	2004	90%	yes Datamax, Sato, Citizen, Zebra, Intermec, Cognitive Solutions	no StainerShield	labels: high-resolution print surface; hypoallergenic; withstand solvents, stains, and reagents
LaserBand info@laserband.com 120 S. Central Ave., Suite 450 St. Louis, M0 63105 800-238-0870 www.laserband.com	labels	1997	75% 25%	_	no LaserBand Integra	labels: self-laminating wristbands (laser and/or thermal print); direct printing
Lattice Pat Heniff, pat.heniff@lattice.com 1751 S. Naperville Rd. Wheaton, IL 60187 630-949-3250 www.lattice.com	printers and labels	1996	100%	yes Zebra Technologies	yes confidential	printers: small footprint; portable and durable labels: provide excellent background for printing contrast; adhesive is the best for refrigeration use
Precision Dynamics Corp. Adrienne Lamm, info@pdcorp.com 13880 Del Sur St. San Fernando, CA 91340 818-897-1111 www.pdcorp.com/healthcare	labels	_	_	_	no DataMate	distinguishing characteristics not provided
Sunquest Information Systems Sylvia Rothrock, sylvia.rothrock@sunquestinfo.com 250 S. Williams Blvd. Tucson, AZ 85711 877-239-6337 www.sunquestinfo.com	printers and labels	2004	100%	yes Zebra QL 220+, Printek MtP 300, Cognitive Code Ranger	yes Zebra, Printek, Cognitive Solutions	distinguishing characteristics not provided
The St. John Companies customer service, cs@stjohninc.com 25167 Anza Drive Valencia, CA 91355 800-435-4242 www.patientidexpert.com	labels	1965	99%	_	no St. John/Conf-ID-ent	distinguishing characteristics not provided
Zebra Technologies Corp. Cristina DeMartini, cdemartini@zebra.com 333 Corporate Woods Parkway Vernon Hills, IL 60061-3109 800-423-0442 www.zebra.com	printers and labels	1985	46% 54%	no Zebra (company markets its printers through authorized resellers)	no Zebra (company markets its labels through authorized resellers)	printers: reliable and rugged; meet mobile, desktop, high- performance industrial, and card needs; included on the list of approved output devices with the leading health care informa- tion technology systems labels: wide selection of stocked labels for unit dose, specimen, or blood labeling; depending on the application, offer moisture, alcohol, Xylene, and other resistance; meet adhesive safety standards to apply directly onto blood or IV bags; withstand refrigeration, freezing, or high temperatures; glove compatible; wide selection of wristbanding options; adhesive, clip, and foam bands