Positive patient ID: where it's at and where it's going

Emily Stone

"Speed, efficiency, and reduction of errors." That's how Theresa McGillvray-Dodd, of Siemens Healthcare, sums up the benefits of positive patient identification products. Her industry counterparts concur.

Companies interviewed by CAP TODAY report that they are continually enhancing their PPID product line to meet user and patient needs, while taking into account their customers' budget limitations.

At Siemens, this means dedicating employees to continuously improving Patient Identification Check. The system cuts down on mislabeled tubes and unnecessary draws generated by mislabeled samples, which has dramatically reduced lab errors, says McGillvray-Dodd, a member of Siemens' product marketing group. Some of the company's customers report being error-free for four years, she adds.

Using Patient Identification Check, phlebotomists scan their own bar-code ID and the patient's bar-coded wristband. The device then tells them what tests need to be performed and what specimens need to be collected. "The sample tubes are listed in recommended collection order," explains McGillvray-Dodd. "After the specimen is collected, a handheld printer creates labels specific for each tube, so the sample container is labeled in the presence of the patient. The labels can be read and recorded by the laboratory information system."

Concern over specimen labeling errors is a major incentive for hospitals to adopt PPID systems, says Linda Trask, laboratory solutions manager at Iatric Systems. And once they adopt them, she continues, they see a number of additional benefits to the products. For example, Iatric's MobiLab, a bedside PPID system for phlebotomists that provides real-time orders and prints labels on the spot, eliminates the need for laboratory staff to spend time researching and documenting mislabeling errors. And because many labs have rules that require that an employee be fired if he or she mislabels a certain number of specimens, eliminating those errors can cut down on staff turnover and the associated cost and workload issues.

Keeping it simple

Ease of use is paramount to the success of positive patient identification products, the companies report.

"They [hospitals] don't want clinicians to have to access multiple systems or utilize multiple devices to accomplish bar-coding functions," says Regan Baron, RN, BSN, chief nursing officer for Cerner's medication process division. Instead, they want a single solution that provides bar-coded PPID support for medication administration, smart pumps, IV infusion management, specimen collection, blood transfusions, breast milk identification, and other tasks.


Baron

Having a single device that can do multiple tasks increases the likelihood that staff will use the tool, says Joseph Stabile, product marketing manager of Horizon Laboratory Solutions for McKesson Provider Technologies, which markets Horizon Admin-Rx and Horizon MobileCare Phlebotomy. And having one highly functional PPID device, instead of multiple devices, is more attractive from a cost standpoint, too, he continues. "Users are asking for it, but also the CIO is asking because, obviously, the more I can do on one device the less my investment in hardware has to be."


Stabile

One of the worst case scenarios is that a hospital invests in multiple PPID products only to discover that they aren't compatible. "Health care executives want a vendor-neutral environment so that a variety of PPID systems that they have, or want, can scan the same bar-coded wristband," says Pat Heniff, vice president of Lattice, maker of the MediCopia PPID specimen-collection system. "Health care [organizations] cannot afford to implement PPID systems only to find out later that the scanning of the bar code on the patient's wristband is not compatible."

Down the road

So what's next in the positive patient identification products marketplace?

Heniff says he expects to see an increase in the use of two-dimensional bar codes, which allow a greater amount of information to be displayed on a wristband, a benefit of particular importance in neonatal units, where wristband real estate is precious.

Heniff also anticipates an increase in radio-frequency identification technology for niche applications. To that end, Lattice is wrapping up a five-year-long project with Massachusetts General Hospital involving the use of RFID wristbands to make sure surgical patients receive the correct units of blood.

"When the blood bank assigns blood products to OR patients, the blood bank prints RFID labels with the patient and product demographics and affixes these labels to the appropriate units of blood," says Heniff. "When the units of blood are delivered to a particular OR, RFID antennas simply match the RFID tag in the patient's wristband to the RFID tag in the blood bag labels, thereby preventing delivery of a blood product to the wrong patient."

At Fujitsu Frontech North America, which markets the PalmSecure biometrics device for medication matching, mobility is the future. "We are work-

ing on developing mobile solutions in the patient identification systems market for hospitals and clinics to provide a simplified, automated, robust, and secure system for promoting patient safety while improving health care efficiency," says Vic Herring, the company's vice president of sales and marketing. "The continued adoption of PalmSecure technology at hospitals nationwide validates the need for a more robust, patient-friendly solution to safeguard against medical identity theft and comply with HIPAA and other regulations."


Herring

As with many electronic products these days, there's chatter about linking handheld PPID technology to handheld Apple products. "The iPod Touch platform currently has a lot of potential but is not yet ready for prime time as a PPID tool," says Frank Fortner, senior vice president of application software at Iatric. While it's an inexpensive device with a great battery life, he says, "it lacks an integrated linear bar-code reader and rugged durability."


Fortner

Gilbert Hakim, CEO of SCC Soft Computer, says many hospitals are ramping up their PPID efforts for transfusion and phlebotomy. "Users have been most interested in phlebotomy solutions that are closely integrated to the LIS," he explains. And they are "looking for transfusion solutions that are paperless and also closely integrated with the blood bank system." SCC markets SoftID and SoftID.Tx. The latter is a module for blood transfusion that was cleared by the FDA earlier this year.


Hakim

"We're constantly evaluating the technology [that's available] to give customers what they need without having to spend an arm and a leg to get there," says McKesson's Stabile, summing up an assertion of all the companies interviewed.

Links to the law

What remains to be seen is the impact the American Recovery and Reinvestment Act of 2009 will have on the PPID marketplace.

Some vendors expressed optimism that the definition of meaningful use in the ARRA, which is linked to reimbursement for using electronic medical records, eventually will be expanded to include PPID systems. Cerner, for one, has already seen increased customer interest in bar-coding systems in hopes that such products will be included under future meaningful use guidelines, Baron says.

McKesson is holding a series of webinars through August to educate its customers about the ARRA. "As institutions are trying to meet these guidelines," says Stabile, "we have an obligation, because of the various solutions we offer, to assist them when we can." □

CAP TODAY's positive patient identification products guide includes software and devices from the aforementioned companies and from several other vendors. Companies supplied the information listed. Readers interested in a particular product should confirm that it has the stated features and capabilities.

Emily Stone is a freelance writer in Chicago.

Positive patient identification products

Part 1 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	Cerner Corp. Jenna Halvorson jenna.halvorson@cerner.com 2800 Rockcreek Parkway Kansas City, MO 64117 816-201-7740 www.cerner.com
Name of positive patient ID product	Cerner Bridge Medical
• Previous name(s)/marketer(s) of product	Bridge MedPoint/Bridge Medical, AmerisourceBergen Corp.
Components of positive patient ID product	software for positive ID of medications, specimen collections, blood transfusions, programming of IV smart pumps, breast milk
Company is a reseller of this product(s)?	sell Cerner products and resell other companies' products
• For whom is company a reseller?	Honeywell, Motorola, Intermec, Zebra Technologies, others
Company sells its products through distribution partners?	no
• With which vendors does company partner?	—
First ever installation of a positive patient ID product	1998
Most recent installation of current version of positive patient ID product	May 2010
Date of last major product release	January 2010
No. of contracts for U.S. sites where product is installed and operational	—
No. of contracts for foreign sites where product is installed and operational	—
No. of contracts signed since May 1, 2009	—
No. of facilities where product is installed and operational	46
Techniques to verify patient ID when creating a wristband on admission	—
Techniques for patient ID prior to each intervention/specimen collection	one-dimensional bar-code wristband, two-dimensional bar-code wristband, passive RFID, active RFID
• How RFID tag is affixed to patient	wristband
• Approximate dimensions of RFID tag	depends on RFID tag chosen
• Data fields on RFID tag or wristband	can accommodate any request
• Type of biometric application	—
• Safeguards for manual entry of ID No.	ID No. clearly distinguishable in database; can prevent manual entry of ID No.; secondary identifiers can be utilized as desired
Product functionality	general laboratory specimen collection, patient and medication matching prior to medication administration, IV smart pump programming, patient and blood unit matching prior to blood transfusion, nursing data collection, breast milk matching
Techniques for specimen identification at time of specimen collection	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, tube type, 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 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 product accepts for bedside transfusion	two-dimensional, Codabar, ISBT 128
• Techniques for reading labels on blood units	one-dimensional bar code, two-dimensional bar code
• Manual entry of patient ID permitted for matching blood units for transfusion	no
Medication tracking offered via positive patient ID product	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration
• Techniques used to read labels on medications	one-dimensional bar code, two-dimensional bar code
Handheld workstations	
• Approximate size of handheld/point-of-care workstation	depends on hardware chosen
• Approximate weight of handheld/point-of-care workstation	depends on hardware chosen
• How handheld workstation communicates with host LIS	local area wireless (802.11a, 802.11b, 802.11g)
• Products that ID-matching software runs on	general-purpose PC, pocket PC, mobile tablet PC
FDA 510(k) approval	
• Is positive patient ID product FDA 510(k) approved?	yes
• Have applied for, but not yet received, FDA 510(k) approval?	no
• Intend to apply for FDA 510(k) approval?	unnecessary
Hospital and/or laboratory information system interface(s)	Sunquest, Cerner, Meditech, McKesson, Siemens, Pyxis, Eclipsys, Allscripts-Misys, Mediware, GE Healthcare, SCC Soft Computer
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 four out of six years • integrated medication reconciliation process provides complete support for JCAHO mandates • Bridge IV smart pump auto-programming functionality is live and installed
Note: a dash in lieu of an answer means company did not answer question or question is not applicable	

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Survey editors: Raymond D. Aller, MD, and Hal Weiner

Positive patient identification products

Part 2 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	Cerner Corp. Jenna Halvorson jenna.halvorson@cerner.com 2800 Rockcreek Parkway Kansas City, MO 64117 816-201-7740 www.cerner.com	Endur ID Robert Chadwick info@endurid.com 8 Merrill Industrial Drive Hampton, NH 03842 603-758-1488 www.endurid.com
Name of positive patient ID product	Cerner Millennium point-of-care solutions—CareAdmin and CareMobile, Millennium Specimen Collections, RxStation	Bio-Optronics Biopoint ID
• Previous name(s)/marketer(s) of product	—	IdentifiOR/Bio-Optronics
Components of positive patient ID product	software for positive ID of medications, specimen collections, programming of IV smart pumps; integration with automated dispensing devices	software *(see also printers/labels/wristbands product guide, page 76)*
Company is a reseller of this product(s)?	sell Cerner products and resell other companies' products	sell Endur ID products and resell other company's products
• For whom company is a reseller?	Honeywell, Motorola, Intermec, Code Corp., Zebra Technologies, others	Bio-Optronics
Company sells its products through distribution partners?	no	no
• With which vendors does company partner?	—	—
First ever installation of a positive patient ID product	1998	2004
Most recent installation of current version of positive patient ID product	May 2010	March 2010
Date of last major product release	February 2010	March 2010
No. of contracts for U.S. sites where product is installed and operational	—	6
No. of contracts for foreign sites where product is installed and operational	—	0
No. of contracts signed since May 1, 2009	—	4
No. of facilities where product is installed and operational	55	75
Techniques to verify patient ID when creating a wristband on admission	—	ID card without a photograph, ID card with a photograph, fingerprint, bar code
Techniques for patient ID prior to each intervention/specimen collection	ID card, patient photo on wristband, one-dimensional bar-code wristband, two-dimensional bar-code wristband, passive RFID, active RFID	ID card, patient photo on wristband, one-dimensional bar-code wristband, two-dimensional bar-code wristband
• How RFID tag is affixed to patient	wristband	—
• Approximate dimensions of RFID tag	depends on RFID tag chosen	—
• Data fields on RFID tag or wristband	can accommodate any request	medical record No.
• Type of biometric application	—	—
• Safeguards for manual entry of ID No.	ID No. clearly distinguishable in database; can prevent manual entry of ID No.; secondary identifiers can be utilized as desired	ID No. clearly distinguishable in database; can prevent manual entry of ID No.
Product functionality	general laboratory specimen collection, patient and medication matching prior to medication administration, IV smart pump programming, patient and blood unit matching prior to blood transfusion, EKG reporting, nursing data collection, breast milk matching	patient and medication matching prior to medication administration, bedside point-of-care testing, IV smart pump programming, nursing data collection, breast milk matching
Techniques for specimen identification at 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
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, tube type, 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 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 product accepts for bedside transfusion	two-dimensional, Codabar, ISBT 128	—
• Techniques for reading labels on blood units	one-dimensional bar code, two-dimensional bar code	—
• Manual entry of patient ID permitted for matching blood units for transfusion	no	—
Medication tracking offered via positive patient ID 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
• Techniques used to read labels on medications	one-dimensional bar code, two-dimensional bar code	one-dimensional bar code, two-dimensional bar code
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	depends on device chosen	—
• Approximate weight of handheld/point-of-care workstation	depends on device chosen	—
• How handheld workstation communicates with host LIS	local area wireless (802.11a, 802.11b, 802.11g—depends on device chosen)	—
• Products that ID-matching software runs on	general-purpose PC, pocket PC, mobile tablet PC	—
FDA 510(k) approval		
• Is positive patient ID product FDA 510(k) approved?	yes	unnecessary
• Have applied for, but not yet received, FDA 510(k) approval?	—	—
• Intend to apply for FDA 510(k) approval?	—	—
Hospital and/or laboratory information system interface(s)	none required (integrated with Cerner Millennium solutions)	available to HIS
Cost		
• General license fee per facility	—	—
• Single handheld workstation	—	—
• Information system interface	—	—
Distinguishing features (supplied by vendor)	• can alert for lab/drug interactions in real time at the point of scan; seamlessly integrated with Cerner Millennium database • seamlessly integrated with RxStation (automated dispensing device), requiring zero interfaces and no duplication of formulary maintenance • ability to auto-program infusion devices and accept data from bedside devices for inclusion in the electronic health record	• ease of deployment; simple to use • ease of integration using HL7; user configurable; custom wristband designs • additional features for use at bedside, such as color-coded alerts and customizable patient information

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Positive patient identification products

Part 3 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	Fujitsu Frontech North America Hiroko Naito hiroko.naito@us.fujitsu.com 25902 Towne Centre Foothill Ranch, CA 92610 813-362-2861 www.us.fujitsu.com/palmsecure	Iatric Systems John Danahey john.danahey@iatric.com 27 Great Pond Drive Boxford, MA 01921 978-805-4153 www.iatric.com
Name of positive patient ID product	PalmSecure	MobiLab
• Previous name(s)/marketer(s) of product	—	—
Components of positive patient ID product	biometrics	software for handheld devices and PCs, including mobile laptops on carts
Company is a reseller of this product(s)?	no	no
• For whom is company a reseller?	—	—
Company sells its products through distribution partners?	yes	no
• With which vendors does company partner?	HT Systems	—
First ever installation of a positive patient ID product	—	2004
Most recent installation of current version of positive patient ID product	March 2010	May 2010
Date of last major product release	January 2010	January 2010
No. of contracts for U.S. sites where product is installed and operational	16	87
No. of contracts for foreign sites where product is installed and operational	—	2 (Canada)
No. of contracts signed since May 1, 2009	—	20
No. of facilities where product is installed and operational	300+	89
Techniques to verify patient ID when creating a wristband on admission	hand veins	—
Techniques for patient ID prior to each intervention/specimen collection	—	one-dimensional bar-code wristband, two-dimensional bar-code wristband
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	patient account/medical record No.
• Type of biometric application	hand veins	—
• Safeguards for manual entry of ID No.	—	ID No. clearly distinguishable in database; can prevent manual entry of ID No.; can require confirmation of a second patient identifier, such as name or date of birth
Product functionality	patient and medication matching prior to medication administration, positive ID upon entering for care	general laboratory specimen collection
Techniques for specimen identification at time of specimen collection	—	bar-code label printed at bedside and applied to tube
Data elements encoded on specimen label	—	accession No., container ID, specimen type, patient name, tube type, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No., any data elements provided by the LIS, priority-specific label banners
Bedside technology for blood transfusion offered via positive patient ID product	—	—
• Symbology that product accepts for bedside transfusion	—	—
• Techniques for reading labels on blood units	—	—
• Manual entry of patient ID permitted for matching blood units for transfusion	—	—
Medication tracking offered via positive patient ID product	—	—
• Techniques used to read labels on medications	—	—
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	—	1.28 × 3.22 × 5.75 in.
• Approximate weight of handheld/point-of-care workstation	—	11.1 oz.
• How handheld workstation communicates with host LIS	—	local area wireless (802.11a, 802.11b, 802.11g)
• Products that ID-matching software runs on	—	general-purpose PC, pocket PC, mobile tablet PC
FDA 510(k) approval		
• Is positive patient ID product FDA 510(k) approved?	unnecessary	unnecessary
• Have applied for, but not yet received, FDA 510(k) approval?	—	—
• Intend to apply for FDA 510(k) approval?	—	—
Hospital and/or laboratory information system interface(s)	available to HIS	Meditech, other LISs via HL7 or custom interfaces
Cost		
• General license fee per facility	—	based on size of facility
• Single handheld workstation	—	depends on hardware vendor chosen
• Information system interface	—	depends on LIS vendor
Distinguishing features (supplied by vendor)	• biometrics for positive identification at the point of care • virtually zero enrollment error; can be applied to the entire serving population • high acceptance rate from the patient due to ease of use and non-intrusive nature of the user interface	• ranked No. 1 in the specimen-collection bar-coding category of the Top 20 Best in KLAS Awards for the fourth year in a row • supports multiple hardware platforms, including handheld devices such as the Symbol PPT 8846, as well as any PC workstation, including laptops and computers on wheels (COWs) • suite of management reports includes turnaround time, workload, user-activity detail, and specimen-management reports, providing supervisory tools to monitor and proactively manage phlebotomy processes

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Positive patient identification products

Part 4 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	Korchek Technologies Gregory Francis greg@korchek.com 115 Technology Drive, Suite B206 Trumbull, CT 06611 877-567-2435 www.korchek.com	Lattice Pat Heniff pat.heniff@lattice.com 1751 S. Naperville Rd. Wheaton, IL 60189 630-949-3250 www.lattice.com
Name of positive patient ID product	CareChek	MediCopia
• Previous name(s)/marketer(s) of product	—	—
Components of positive patient ID product	specimen collection, blood product administration, medication administration, breast milk matching	handheld computers, wireless portable printers, bedside specimen collection software *(see also printers/labels/wristbands product guide, page 76)*
Company is a reseller of this product(s)?	no	sell Lattice products and resell other companies' products
• For whom is company a reseller?	—	Intermec, Motorola, Zebra Technologies
Company sells its products through distribution partners?	no	no
• With which vendors does company partner?	—	—
First ever installation of a positive patient ID product	2004	1996
Most recent installation of current version of positive patient ID product	April 2010	February 2010
Date of last major product release	March 2010	November 2009
No. of contracts for U.S. sites where product is installed and operational	2	119
No. of contracts for foreign sites where product is installed and operational	0	0
No. of contracts signed since May 1, 2009	1	16
No. of facilities where product is installed and operational	2	91
Techniques to verify patient ID when creating a wristband on admission	—	bar code
Techniques for patient ID prior to each intervention/specimen collection	patient photo on wristband, one-dimensional bar-code wristband, two-dimensional bar-code wristband	ID card, patient photo on wristband, one-dimensional bar-code wristband, two-dimensional bar-code wristband, passive RFID
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	patient name, financial number, date of birth, medical record No., doctor's name, others
• Type of biometric application	—	—
• Safeguards for manual entry of ID No.	ID No. clearly distinguishable in database	ID No. clearly distinguishable in database; can prevent manual entry of ID No.; ADT Census Check
Product 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, breast milk matching	general laboratory specimen collection, patient and blood unit matching prior to blood transfusion
Techniques for specimen identification at time of specimen collection	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	bar-code label printed at bedside and applied to tube, RFID tag created at bedside and applied to tube
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, tube type, collector ID, patient location, date, tests ordered, patient account/ admission No., patient medical record No.	accession No., container ID, specimen type, patient name, tube type, 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 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 product accepts for bedside transfusion	two-dimensional, Codabar, ISBT 128	—
• Techniques for reading labels on blood units	one-dimensional bar code	—
• Manual entry of patient ID permitted for matching blood units for transfusion	yes	—
Medication tracking offered via positive patient ID product	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration	—
• Techniques used to read labels on medications	one-dimensional bar code, two-dimensional bar code	—
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	—	6 × 3 × 1 in.
• Approximate weight of handheld/point-of-care workstation	—	14 oz. to 16 oz.
• How handheld workstation communicates with host LIS	intermittent docking, local area wireless (all 802.11)	intermittent docking, real-time radio frequency, local area wireless (802.11a, 802.11b, 802.11g)
• Products that ID-matching software runs on	general-purpose PC, mobile tablet PC, smartphone, Windows Mobile 5	general-purpose PC, pocket PC, mobile tablet PC
FDA 510(k) approval		
• Is positive patient ID product FDA 510(k) approved?	yes	unnecessary
• Have applied for, but not yet received, FDA 510(k) approval?	—	—
• Intend to apply for FDA 510(k) approval?	—	—
Hospital and/or laboratory information system interface(s)	available to HIS or LIS	Cerner, Meditech, Sunquest, McKesson, SCC Soft Computer, GE Healthcare, internally developed
Cost		
• General license fee per facility	varies	—
• Single handheld workstation	varies	—
• Information system interface	varies	—
Distinguishing features (supplied by vendor)	• system is configured by user to match workflow; ability to record hemoglobin and hematocrit, platelet counts, PT, and PTT on blood product administration • stat warnings that require user intervention with complete logging and monitoring • operates in wireless and hardwired ethernet environments simultaneously for hospitals that are not completely wireless	• ease of use • superior features and functionality • custom design flexibility
Note: a dash in lieu of an answer means company did not answer question or question is not applicable		

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Positive patient identification products

Part 5 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	McKesson Kerry Bruning kerry.bruning@mckesson.com 5995 Windward Parkway Alpharetta, GA 30005 515-992-3186 www.mckesson.com	McKesson Joseph R. Stabile joseph.stabile@mckesson.com 5995 Windward Parkway Alpharetta, GA 30005 404-338-4363 www.mckesson.com/laboratory
Name of positive patient ID product	Horizon Admin-Rx	Horizon MobileCare Phlebotomy
• Previous name(s)/marketer(s) of product	Care Manager/—	—
Components of positive patient ID product	software to support positive patient identification and five rights of medication checking at administration	software to support positive patient identification for specimen collection, handheld devices, portable bar-code printers
Company is a reseller of this product(s)?	sell McKesson products and resell other companies' products	sell McKesson products and resell other companies' products
• For whom is company a reseller?	Motorola, Zebra Technologies, First DataBank	Motorola (handheld devices), Zebra Technologies (portable printers)
Company sells its products through distribution partners?	no	no
• With which vendors does company partner?	—	—
First ever installation of a positive patient ID product	1988	1988
Most recent installation of current version of positive patient ID product	March 2010	April 2010
Date of last major product release	March 2009	November 2009
No. of contracts for U.S. sites where product is installed and operational	197	48
No. of contracts for foreign sites where product is installed and operational	2 (Canada)	0
No. of contracts signed since May 1, 2009	17	5
No. of facilities where product is installed and operational	201	81
Techniques to verify patient ID when creating a wristband on admission	bar code (one-dimensional bar-code wristband, two-dimensional bar-code wristband)	—
Techniques for patient ID prior to each intervention/specimen collection	one-dimensional bar-code wristband, two-dimensional bar-code wristband	one-dimensional bar-code wristband, two-dimensional bar-code wristband
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	patient account/encounter No.
• Type of biometric application	—	—
• Safeguards for manual entry of ID No.	manual entry of ID No. not an option	manual entry of ID No. not an option
Product functionality	patient and medication matching prior to medication administration, IV smart pump programming, nursing data collection	general laboratory specimen collection
Techniques for specimen identification at time of specimen collection	—	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, tube type, 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 product	—	—
• Symbology that product accepts for bedside transfusion	—	—
• Techniques for reading labels on blood units	—	—
• Manual entry of patient ID permitted for matching blood units for transfusion	—	—
Medication tracking offered via positive patient ID product	order for medication, history of allergies, route of administration, intended recipient, correct dosage, rate of administration	—
• Techniques used to read labels on medications	one-dimensional bar code, two-dimensional bar code	—
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	6 × 3.1 × 1.5 in.	6 × 3.1 × 1.5 in.
• Approximate weight of handheld/point-of-care workstation	12 oz.	12 oz.
• How handheld workstation communicates with host LIS	local area wireless (Tri-mode IEEE 802.11a, 802.11b, 802.11g)	local area wireless (Tri-mode IEEE 802.11a, 802.11b, 802.11g)
• Products that ID-matching software runs on	general-purpose PC, pocket PC on the Motorola MC70, mobile tablet PC	general-purpose PC, pocket PC, mobile tablet PC, Motorola 8846 or MC70 device, Windows-based PC, laptop, notebook
FDA 510(k) approval		
• Is positive patient ID product FDA 510(k) approved?	unnecessary	unnecessary
• Have applied for, but not yet received, FDA 510(k) approval?	no	no
• Intend to apply for FDA 510(k) approval?	no	no
Hospital and/or laboratory information system interface(s)	McKesson, Sunquest, Cerner, SCC Soft Computer, Meditech	none required (add-on module to McKesson Horizon Lab)
Cost		
• General license fee per facility	depends on size of facility	depends on size of facility
• Single handheld workstation	~$2,000/unit	~$2,000/unit
• Information system interface	integrated with Horizon Clinicals (no additional cost)	integrated with Horizon Lab LIS (no additional cost)
Distinguishing features (supplied by vendor)	• complete integration with the enterprise clinical information system • continuity of information flow from computerized physician order entry to pharmacy to administration • depth and history of experience	• co-exists with McKesson's solution for medication administration, Horizon Admin-Rx, on the same handheld device • fully integrated with Horizon Lab—no interface required • supports nurse-centric and lab-centric collection models with support for preprinted and point-of-care–printed specimen labels

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Positive patient identification products

Part 6 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	Niceware International Lee Patty healthcare@nicewareintl.com 200 S. Executive Drive, Suite 200 Brookfield, WI 53005 888-894-6423 http://healthcare.nicewareintl.com	Sato America Jamie Stallings jamie.stallings@satoamerica.com 10350 Nations Ford Rd. Charlotte, NC 28273 704-644-1650 www.satoamerica.com/healthcare
Name of positive patient ID product	NiceLabel	Gallery 3 HC
• Previous name(s)/marketer(s) of product	—	—
Components of positive patient ID product	software	software, handheld devices, RFID, GPS, media *(see also printers/labels/ wristbands product guide, page 76)*
Company is a reseller of this product(s)?	no	sell Sato America products and resell other companies' products
• For whom is company a reseller?	—	—
Company sells its products through distribution partners?	yes	yes
• With which vendors does company partner?	General Data, RMS Omega, Identisys	—
First ever installation of a positive patient ID product	2004	2001
Most recent installation of current version of positive patient ID product	2010	2010
Date of last major product release	2008	2009
No. of contracts for U.S. sites where product is installed and operational	200	—
No. of contracts for foreign sites where product is installed and operational	—	—
No. of contracts signed since May 1, 2009	12	—
No. of facilities where product is installed and operational	150	—
Techniques to verify patient ID when creating a wristband on admission	ID card without a photograph, ID card with a photograph, bar code	—
Techniques for patient ID prior to each intervention/specimen collection	ID card, patient photo on wristband, one-dimensional bar-code wristband, two-dimensional bar-code wristband	—
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	—
• Type of biometric application	—	—
• Safeguards for manual entry of ID No.	—	—
Product functionality	—	patient and blood unit matching prior to blood transfusion, nursing data collection, breast milk matching
Techniques for specimen identification at time of specimen collection	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	bar-code label printed centrally and added to tube, RFID tag created centrally and added to tube, bar-code label printed at bedside and applied to tube, RFID tag created at bedside and applied to tube
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, tube type, 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 product	—	—
• Symbology that product accepts for bedside transfusion	—	—
• Techniques for reading labels on blood units	—	—
• Manual entry of patient ID permitted for matching blood units for transfusion	—	—
Medication tracking offered via positive patient ID 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	—	intermittent docking, real-time infrared, real-time radio frequency, local area wireless (802.11 a, b, g, n)
• Products that ID-matching software runs on	—	general-purpose PC, pocket PC, Palm handheld, mobile tablet PC, smartphone, Windows CE, Windows Mobile
FDA 510(k) approval		
• Is positive patient ID product FDA 510(k) approved?	unnecessary	unnecessary
• Have applied for, but not yet received, FDA 510(k) approval?	no	—
• Intend to apply for FDA 510(k) approval?	unnecessary	unnecessary
Hospital and/or laboratory information system interface(s)	Cerner, Sunquest, any HL7	—
Cost		
• General license fee per facility	—	—
• Single handheld workstation	—	—
• Information system interface	—	—
Distinguishing features (supplied by vendor)	• configurable patient identification bar codes to match any HIS or LIS scanning requirement • multiple interfaces and data-parsing options for integration into any system • simple design interface enables any user to create identification labels and wristbands	• modular design, permitting the facility to utilize only those modules needed while offering expandability for future growth • ease of care • ease of use

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Positive patient identification products

Part 7 of 8 See product guide for printers/labels/wristbands for positive patient ID, page 76	SCC Soft Computer Ellie Vahman ellie@softcomputer.com 5400 Tech Data Drive Clearwater, FL 33760 727-789-0100 www.softcomputer.com	SCC Soft Computer Ellie Vahman ellie@softcomputer.com 5400 Tech Data Drive Clearwater, FL 33760 727-789-0100 www.softcomputer.com
Name of positive patient ID product	SoftID	SoftID.Tx
• Previous name(s)/marketer(s) of product	—	—
Components of positive patient ID product	software, printers, handheld computers	software, handheld computers, PCs
Company is a reseller of this product(s)?	no	no
• For whom is company a reseller?	—	—
Company sells its products through distribution partners?	no	no
• With which vendors does company partner?	—	—
First ever installation of a positive patient ID product	1997	1997
Most recent installation of current version of positive patient ID product	April 2010	—
Date of last major product release	April 2010	April 2010
No. of contracts for U.S. sites where product is installed and operational	46	1
No. of contracts for foreign sites where product is installed and operational	—	—
No. of contracts signed since May 1, 2009	7	2
No. of facilities where product is installed and operational	147	1
Techniques to verify patient ID when creating a wristband on admission	—	—
Techniques for patient ID prior to each intervention/specimen collection	one-dimensional bar-code wristband, two-dimensional bar-code wristband	one-dimensional bar-code wristband, two-dimensional bar-code wristband
• How RFID tag is affixed to patient	—	—
• Approximate dimensions of RFID tag	—	—
• Data fields on RFID tag or wristband	—	—
• Type of biometric application	—	—
• Safeguards for manual entry of ID No.	ID No. clearly distinguishable in database; can prevent manual entry of ID No.	ID No. clearly distinguishable in database; can prevent manual entry of ID No.
Product functionality	general laboratory specimen collection	patient and blood unit matching prior to blood transfusion, nursing data collection
Techniques for specimen identification at time of specimen collection	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	—
Data elements encoded on specimen label	accession No., container ID, specimen type, patient name, tube type, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No., time collected, draw instructions, ordering physician, priority, date of birth, gender, race, others	—
Bedside technology for blood transfusion offered via positive patient ID 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 product accepts for bedside transfusion	—	two-dimensional, Codabar, ISBT 128
• Techniques for reading labels on blood units	—	one-dimensional bar code, two-dimensional bar code
• Manual entry of patient ID permitted for matching blood units for transfusion	—	—
Medication tracking offered via positive patient ID product	—	—
• Techniques used to read labels on medications	—	—
Handheld workstations		
• Approximate size of handheld/point-of-care workstation	6 × 3.1 × 1.5 in.	6 × 3.1 × 1.5 in.
• Approximate weight of handheld/point-of-care workstation	12 oz.	12 oz.
• How handheld workstation communicates with host LIS	local area wireless (802.11b, 802.11g)	local area wireless (802.11b, 802.11g)
• Products that ID-matching software runs on	general-purpose PC, pocket PC, mobile tablet PC, Microsoft Windows-based devices	general-purpose PC, pocket PC, mobile tablet PC, Microsoft Windows-based devices
FDA 510(k) approval		
• Is positive patient ID product FDA 510(k) approved?	unnecessary	yes
• Have applied for, but not yet received, FDA 510(k) approval?	—	—
• Intend to apply for FDA 510(k) approval?	unnecessary	—
Hospital and/or laboratory information system interface(s)	SCC SoftLab	SCC SoftLab
Cost		
• General license fee per facility	$30,000–$250,000	$30,000–$250,000
• Single handheld workstation	$2,000–$3,000	$2,000–$3,000
• Information system interface	integrated with SCC SoftLab LIS	integrated with SCC SoftLab LIS
Distinguishing features (supplied by vendor)	• majority of setup is imported from the SoftLab LIS, significantly reducing the effort required for initial implementation, maintenance, and security management • no new interfaces to the HIS are required since product is integrated with the SoftLab LIS, which is interfaced to the HIS • same software can be implemented on any number of Microsoft Windows devices, such as PDAs, smartphones, tablet PCs, and mobile nursing workstations, and can operate alongside other installed applications on the device	• data resides in the SCC SoftBank database, allowing easy access to transfusion information • no interfaces are required since HIS connectivity is established via the SCC SoftBank blood transfusion system • same software can be implemented on any number of Microsoft Windows devices, such as PDAs, smartphones, tablet PCs, and mobile nursing workstations, and can operate alongside other installed applications on the device

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Positive patient identification products

Part 8 of 8 **See product guide for printers/labels/wristbands for positive patient ID, page 76**	**Siemens Healthcare** **Theresa McGillvray-Dodd** theresa.mcgillvray-dodd@siemens.com **18724 66th Ave. N.E.** **Kenmore, WA 98028** **425-487-0179** www.medical.siemens.com	**Sunquest Information Systems** **Donald Mounce** donald.mounce@sunquestinfo.com **250 S. Williams Blvd.** **Tucson, AZ 85711** **877-239-6337** www.sunquestinfo.com
Name of positive patient ID product **• Previous name(s)/marketer(s) of product**	**Siemens Patient Identification Check** **—**	**Sunquest Collection Manager and Transfusion Manager** **—**
Components of positive patient ID product	**software, handheld device, PC cart on wheels** ***(see also printers/labels/wristbands product guide, page 76)***	**software, handheld devices, laptops, computer on wheels**
Company is a reseller of this product(s)? **• For whom is company a reseller?** **Company sells its products through distribution partners?** **• With which vendors does company partner?**	**no** **—** **no** **—**	**no** **—** **no** **—**
First ever installation of a positive patient ID product **Most recent installation of current version of positive patient ID product** **Date of last major product release** **No. of contracts for U.S. sites where product is installed and operational** **No. of contracts for foreign sites where product is installed and operational** **No. of contracts signed since May 1, 2009** **No. of facilities where product is installed and operational**	**2006** **2010** **2009** **14** **0** **6** **8**	**2004** **2010** **February 2010** **123** **1 (Bermuda)** **28** **~150**
Techniques to verify patient ID when creating a wristband on admission	**—**	**—**
Techniques for patient ID prior to each intervention/specimen collection	**one-dimensional bar-code wristband, two-dimensional bar-code wristband**	**one-dimensional bar-code wristband, two-dimensional bar-code wristband**
• How RFID tag is affixed to patient	**—**	**—**
• Approximate dimensions of RFID tag	**—**	**—**
• Data fields on RFID tag or wristband	**—**	**—**
• Type of biometric application	**—**	**—**
• Safeguards for manual entry of ID No.	**ID No. clearly distinguishable in database; can prevent manual entry of ID No.**	**ID No. clearly distinguishable in database; can prevent manual entry of ID No.**
Product functionality	**general laboratory specimen collection, patient and blood unit matching prior to blood transfusion, nursing data collection, breast milk matching, temperature ID**	**general laboratory specimen collection, patient and blood unit matching prior to blood transfusion**
Techniques for specimen identification at time of specimen collection	**bar-code label printed at bedside and applied to tube, others**	**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, tube type, collector ID, patient location, date, tests ordered, patient account/admission No., patient medical record No.**	**accession No., container ID, specimen type, patient name, tube type, patient location, date, tests ordered, patient account/admission No., patient medical record No.**
Bedside technology for blood transfusion offered via positive patient ID product	**detection of potential mistransfusion, documentation of final transfusion record**	**detection of potential mistransfusion, documentation of transfusion data, documentation of final transfusion record**
• Symbology that product accepts for bedside transfusion	**two-dimensional, Codabar, ISBT 128**	**two-dimensional, Codabar, ISBT 128**
• Techniques for reading labels on blood units	**one-dimensional bar code**	**one-dimensional bar code, two-dimensional bar code**
• Manual entry of patient ID permitted for matching blood units for transfusion	**yes**	**yes**
Medication tracking offered via positive patient ID 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** **• Products that ID-matching software runs on**	 **6 × 3.1 × 1.5 in. to 6 × 3.1 × 1.7 in. (depending on configuration)** **11.2 oz. to 14.1 oz. (depending on configuration)** **intermittent docking, local area wireless (802.11a, 802.11b, 802.11g)** **general-purpose PC, pocket PC, mobile tablet PC**	 **1.3 × 3.1 × 5.7 in.** **10.5 oz.** **intermittent docking, local area wireless (802.11a, 802.11b, 802.11g)** **general-purpose PC, pocket PC, mobile tablet PC, Windows CE 3.0, Windows CE 4.0**
FDA 510(k) approval **• Is positive patient ID 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** **—** **—**	 **yes** **—** **—**
Hospital and/or laboratory information system interface(s)	**Siemens Soarian, McKesson, Meditech, Cerner, Sunquest, others**	**Sunquest Laboratory**
Cost **• General license fee per facility** **• Single handheld workstation** **• Information system interface**	 **—** **—** **—**	 **—** **—** **—**
Distinguishing features (supplied by vendor)	**• assists health care providers in meeting JCAHO requirements for the hospital** **• matches the patient to the test order and sample collection; links specific blood-collection tube type to the test that has been ordered, eliminating the need to redraw specimens because of wrong tube type** **• provides an overview of specimen-collection and processing workflow that managers can use to identify opportunities for process improvement**	**• accommodates lab-based and nursing workflow in acute and ambulatory settings** **• proven to reduce specimen-identification errors to zero, even in busy emergency departments** **• combines with Sunquest's blood bank to create a closed loop transfusion process**

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