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Blood banks retooling to manage growth of biologics

Karen Wagner

As the medical community increasingly uses stem cells, human tissue, bone marrow, and other biologics in patient treatment, how best to manage these products is likely to become an issue for many blood banks.

For some institutions, the solution will entail adding functionality for nonblood biologics management to their blood bank systems. For others, it will involve purchasing a system sole-

ly to address such needs. Indeed, many hospitals are now transplanting nonblood biologics, and some have adapted their blood bank systems to handle such products.

any of our university, research, and cancer center clients are involved with drawing and processing stem cells for autologous and allogeneic transplants and producing vaccines," says Miklos Csore, senior vice president of research and development for Global Med Technologies, El Dorado Hills, Calif., which offers blood and nonblood biologics management tools. "Cord blood centers are becoming more numerous as well for the processing and storage of cord cells. On the tissue side, there is a trend, as regulations increase, for hospitals to give the transfusion services more oversight and responsibility for bone and tissue storage and issue."

Over the past few years, Mediware Information Systems, Lenexa, Kan., has seen an upswing in client demand for biologics management products. According to Mediware's vice president of marketing and communication, John Van Blaricum, focus

group research found that 50 percent of clients were adapting Mediware's blood bank systems for use in tracking bones and tissues. "Of course the blood bank systems didn't do everything they needed and didn't exactly operate the way they should to sup-

port bone chips versus A-positive blood," he says.

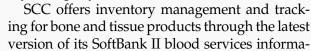
In response, Mediware established industry focus groups to determine what functionality customers wanted relative to biologics management.

From that information, the company developed a standalone biologics management system.

Blood bank

information systems, pages 22–36

Likewise, SCC Soft Computer,
Clearwater, Fla., heeded customers' needs, adding biologics management to its blood bank system after learning that many customers had begun using the system to handle bone and tissue products, says company CEO Gilbert Hakim.



tion system, which received FDA approval in June and was released in August. "Some customers that use SoftBank II, version 25, will be using it to manage the inventory of bone and tissue products," Hakim says.

But while companies such as Mediware, SCC, and Global Med are forging ahead on the biologics front, others say there isn't enough customer demand to move forward with such functionality—yet.

The critical access and community hospital clients of Milford, Mass.-based Psyche Systems, for example, are too small to handle such products, says Brian Keefe, Psyche's director of clinical product marketing. "We're not focused on biologics," he explains,



Keefe

"because our customer base and our niche in the blood bank market is to provide affordable computerization and automation for blood banks still operating on paper. We offer bar-code tracking and identification of unit inventory, online patient history, basic transfusion workup, positive patient ID at the bedside—things like that."

Westwood, Mass.-based Medical Information Technology, too, has made no immediate plans to develop a biologics management system. "It's something that we

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Blood banks retooling

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have heard about in the past, and it seems that we're getting a few more questions about it lately," says Christine Silva, manager of marketing support.

If enough customers become interested, she continues, Meditech will incorporate biologics functionality into its blood bank system. "We are preparing a major rewrite of our laboratory and blood bank system in the next few years, so this is something that we perhaps would incorporate in that solution," Silva says, noting that any nonblood product management module would most likely include inventory and tracking functions. The next version of Meditech's blood bank system is expected to be released in three to five years, she adds.

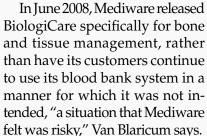
onblood biologics management is such a new area that the specialized systems of those companies interviewed by CAPTODAY were introduced in the United States during the past few years.

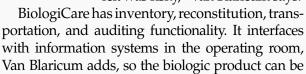
McKesson Provider Technologies, Alpharetta, Ga., added a tissue-management tool to its product portfolio in March 2008, when it acquired Ann Arbor, Mich.-based Rosebud Solutions. Rosebud had released the system in January 2007 in response to JCAHO standards for safe handling of tissue.

The system, Horizon Tissue Manager, is designed to create a more efficient tissue and device implant workflow process, from receipt at the facility to patient implant or final disposal, says Alicia Torres,

McKesson's vice president, solution line. The system automates management of the implant, she

> adds, which allows clinicians immediate access to implant records.





tracked beyond delivery to the type

and date of surgery and, through an identification number, to the patient who receives the product.

BiologiCare uses the same architecture as Mediware's HCLL blood bank Van Blaricum system but is not



interfaced with that system. However, product managers for the two solutions are considering such an option. "We're investigating what makes sense for integration between the transfusion management and the biologics management [systems]," Van Blaricum says.

Mediware is scheduled to release version two of the bone and tissue management system this month. This latest version will be Web based, allowing nonblood bank users easy access to data. "With biologics, it's not just the blood bank community that needs information and access," Van Blaricum says. "There's the surgical teams and the nursing teams that also have input and play."

t NetLims, the focus is on the company's AutoFusion blood bank management system, which re-

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Torres

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Blood banks retooling

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ceived FDA 510(k) clearance in July. AutoFusion offers user-defined functionality, which means it can be set up to manage nonblood products, says Rami Jaschek, vice president of technology for NetLims, an Israel-based company with U.S. headquarters in Jersey City, NJ.

"Our blood bank [system] setup is by the clients," says Jaschek. "Tissues or factors being distributed are basically handled as additional product in the system. Just as I can issue a blood unit, I can issue a stem cell unit, or a bone marrow unit, or any other type of product because you can define all the rules and the system logic that applies to such a product.

"So a lot of what might be fixed code in other systems, in our system is set up so you can change it," he continues. "You start with a standard, but you can definitely change that."

AutoFusion offers a comprehensive set of functions for nonblood products, from generating labels during acquisition, to defining the processing that can be performed, such as thawing of a unit, to handling inventory and tracking, Jaschek says.

NetLims' clients are handling biologics as part of their inventory, just as they would any blood unit or other product they're distributing generally, Jaschek adds.

ew to the U.S. market is Global Med Technologies' EdgeCell system, which has been available in Europe since 2002. EdgeCell manages the scheduling, collection, testing, processing, storage, transfer, and transplant of stem cells, tissue, and cord

The strategic plan, says Csore, calls for incorporating EdgeCell into Global Med's ElDorado suite of blood bank management software products, where it will interface with other modules to offer a complete solution from donation to transplantation.

Global Med also markets Tracs4Life, subscriptionbased implant management software developed by Biomedical Synergies. Tracs4Life has been installed in several U.S. hospitals, including military facilities. The software manages receiving, storage, transplantation, and adverse event tracking for tissue and other biologics. "Tracs4Life also provides comprehensive recall processes, automatically completes tissue usage cards, and tracks products used in tissue prep-

aration," Csore says.



Csore

Global Med, too, has initiated technology work groups, composed of blood bank, cellular, and other professionals, as well as Global Med development staff. The work groups study needs related to managing blood and nonblood products. "The cell group," says Csore, "is focused on studying trends and gathering

strategic information about the industry three to five years from now."

Karen Wagner is a freelance writer in Forest Lake, Ill.

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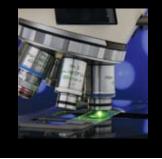
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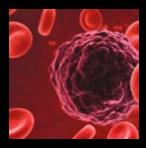
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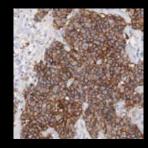
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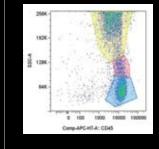
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| | Biood bank informa | | |
|---|--|--|---|
| Part 1 of 6 | Blood Bank Computer Systems Brian Forbis bforbis@bbcsinc.com 1002 15th St. SW, Suite 120 | Cerner Corp. Jen Cisar jen.cisar@cerner.com 2800 Rockcreek Parkway | GE Healthcare Janet Landsberg janet.landsberg@ge.com 3100 Steeles Ave. E., Suite 900 |
| Con consumer vive article on page 16 | Auburn, WA 98001 | Kansas City, MO 64117 | Markham, Ontario, L3R 8T3 Canada |
| See accompanying article on page 16 | 253-333-0046 www.bbcsinc.com | 816-201-1024 www.cerner.com | 905-413-9032 www.gehealthcare.com |
| Name of blood bank system | Blood Bank Control System | Cerner Millennium PathNet Blood Bank Transfusion | Centricity Laboratory Transfusion Medicine [†] |
| First ever/most recent blood bank system installation Last major product release (for product featured) Total number of contracts for sites operating blood bank system | 1987/July 2009 March 2008 31 | 1986/June 2009 February 2009 217 | 1996/2009 2009 11 |
| Contracts for U.S. hospitals with donor and transfusion services Contracts for U.S. hospitals with transfusion service only | 0 | 194 | 1 |
| Contracts for U.S. regional blood centers with donor service only Contracts for U.S. regional blood centers with donor and | 23 | 0 | 0 |
| transfusion services •Contracts for centralized transfusion services in the U.S. | 2 | 0 | 0 |
| Contracts for foreign hospitals and regional blood centers | 0 | 23 (Australia, Canada, England, Saudia Arabia, Singapore) | 10 (Australia, New Zealand, United Kingdom, Canada) |
| Contracts for other sites Number of contracts signed between June 2008–June 2009 | 1 (hemostatic solutions provider) 0 | <u></u> | 0 |
| Total number of sites operating blood bank system | 120 | _ | 20 0 |
| Number of sites that went live between June 2008–June 2009 Installations not yet live (hospitals/regional blood centers/others) | 7 1 (0/0/1 – medical device company) | _ | 1 (1/0/0) |
| Percentage of installations that are standalone blood bank systems | 100% | 0 | 0 |
| Staff to develop/install and support/other* in entire company Staff to develop/install and support/other* in blood bank systems | 15/8/2 | 1,609/3,277/2,618 133/141/146 | 46,000 total |
| Number of different versions of this software installed •Versions of product in field covered by FDA 510(k) clearance | 2 BBCS 5.0, 4.4 | 2 Cerner Classic, Cerner Millennium | 5 4.0, 4.1 |
| Versions of product that did not require FDA 510(k) clearance Page 1 in page 1 interaction and the following | 10,000 (2007) 27, 10 | _ | 2.4, 3.2, 3.3 |
| Range in number of interactive workstations in live sites (average) Central hardware or services type | 10–200 (average, 40) IBM iSeries | Hewlett-Packard, IBM | 2–10 (average, 6) Unix-based platforms |
| Workstations or PC platform | IBM-compatible workstations, PCs | Microsoft Windows locally or via Citrix thin client | PCs with Windows 2000, XP |
| Software programming language(s) Operating system(s) | RPG 400, Java 0S/400 | Java, Visual Basic, C++, Visual C HP-UX, AIX, VMS | C, C++, Unify Vision Unix |
| Databases and tools | IBM DB2 | Oracle | Unify Dataserver database, Unify Development tool kit |
| Features (listed as percentage of live installs or based on availability) •Full support of ISBT 128 unit labeling | 60% | 95% | installed |
| Bar-code reading of donor and unit information | 100% | 100% | 100% |
| •Unit inventory •Autologous and directed unit tracking | 100% 100% | 100% 100% | 100% 100% |
| Direct entry of test results | 100% | 100% | 100% |
| Crossmatch results Electronic crossmatch decisionmaking | 17% 3% | 100% >50% | 100% installed |
| Antigen typing Integrated bedside check for transfusion | 100% not available | 100% 1% | installed available through third party |
| Track all steps in production of product | 100% | 100% | not available |
| Print donor unit labels—bar coded Interface with automated instruments | 3% 100% | 100% >25% | installed installed |
| Interface with blood irradiator or centrifuges | not available | not available | not available |
| Centralized transfusion service capability Donor recruitment and management/donor questionnaire | 7% installed/21% | available available through company's LIS or via third party (both features) | installed not available/not available |
| Mobile scheduling Laptop-based mobile donor registration module | installed installed | available through company's LIS or via third party available through company's LIS or via third party | not available not available |
| Source or recovered plasma management Accounts receivable | 100% 100% | available through company's LIS or via third party <25% | not available not available |
| Management reports/ad hoc report writer | 100%/100% | 100%/100% | 100%/100% |
| Quality control management/collection management Support provides standard ULT interface? | 100%/100% | <25%/<25% | not available/not available |
| System provides standard HL7 interface? Interfaces to automated donor infectious disease testing instruments | yes (version 2.x configurable) uni-directional to Ortho, Immucor, Abbott, Olympus, IDM via Surround | yes (versions 2.3, 2.4) | yes (versions 2.2, 2.3) |
| Interfaces to automated ABO/Rh/antibody screening instruments | uni-directional to Ortho, Immucor, Abbott, Olympus | bi-directional to Ortho, Immucor, Abbott, DiaMed/ Bio-Rad | bi-directional to Ortho, Immucor, Olympus, DiaMed/ Bio-Rad, Wadiana |
| FDA 510(k)-approved interface to bedside patient ID system? •HISs interfaced to bedside patient ID system Languages (other than English) offered on system | no | yes (to Cerner Bridge Medical) Cerner, Epic, any supporting HL7 messaging German, Spanish, French | no |
| Tools to help clients validate their systems | validation protocols, flow charts, management guides, validation guide documents, risk mitigation online portal, 24/7 client support | certification guidelines, documentation, and consulting services | validation checklists that cover setup, testing, and verification; internal test case manual used for FDA validation available on request |
| Complete blood bank ASP solution? | yes | yes | no |
| Method of charging for ASP service Client software required | transaction based browser based or requires software be installed on a | fixed fee requires software be installed on a client PC, Citrix | |
| ASP information conduit | client PC | thin client | _ |
| Client contracts supported from data center not operated by client | operates over the Internet 3 | requires use of a VPN or other dedicated connection 197 | _ |
| How data center is operated System provides indexed field in each test definition for LOINC code? | by a third party (blood bank or IBM business partner) | by vendor | - voc |
| Provide LOINC dictionary for each new installation? | no no | yes yes | yes no |
| Information system interfaces | Cerner, Haemonetics, Mediware, Meditech | McKesson, Siemens, Epic, Eclipsys, Meditech, others | Cerner, McKesson, Siemens, GE, Meditech, Epic |
| User group? Source code? | yes (meets in person annually) no | yes (meets via Internet biannually; in person annually) escrow | yes (meets via Internet quarterly; in person annually) escrow |
| User can modify screens? | no vecture | yes weekings | no vos/no |
| User-defined report writer/custom programming? Cost for smallest & largest standalone HW/SW/install | yes/yes | yes/yes | yes/no |
| & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance | _ | _ | _ |
| Distinguishing features (supplied by vendor) *other=sales, marketing, administration, other company functions | complete blood center management package from recruiting to transfusion self-registration and customizable online question-naire capable of touch-screen integration support a paperless donor room highly configurable to fit the needs of large and small facilities | positive patient ID capabilities at the patient bedside support for increased efficiencies through key capabilities, such as mother-baby linking, online secondary review of results (pre- or post-verification), quality control specific to blood bank workflows, computerized crossmatch, other offerings support for blood bank within a single LIS and EMR architecture | fully integrated with all lab disciplines on a single relational database multi-lab functionality allows separate inventories and tracking of movement of units between labs full security over data access; extensive audit tracking |
| Note: a dash in lieu of an answer means company did not answer question or question is not applicable | | | [†] formerly Triple G Ultra |

| | Biood bank informa | | |
|--|--|---|--|
| Part 2 of 6 | Haemonetics Corp. Steven Slaw sslaw@haemonetics.com 9701 W. Higgins Rd., Suite 500 Rosemont, IL 60018 | McKesson Joseph R. Stabile joseph.stabile@mckesson.com 5995 Windward Parkway Alpharetta, GA 30005 | Medical Information Technology Paul Berthiaume pberthiaume@meditech.com Meditech Circle Westwood, MA 02090 |
| See accompanying article on page 16 | 847-825-2300 www.haemonetics.com | 404-338-4363 www.mckesson.com/laboratory | 781-821-3000 www.meditech.com |
| Name of blood bank system | Symphony [†] | Horizon Blood Bank [†] | Blood Bank System-6.0 |
| First ever/most recent blood bank system installation Last major product release (for product featured) Total number of contracts for sites operating blood bank system Contracts for U.S. hospitals with donor and transfusion services Contracts for U.S. hospitals with transfusion service only Contracts for U.S. regional blood centers with donor and | 1991/2009 2009 12 0 0 10 | 2004/June 2009 July 2006 (new release, fall 2009) 68 0 65 0 | 1981/April 2009 April 2008 10 — — — |
| transfusion services •Contracts for centralized transfusion services in the U.S. •Contracts for foreign hospitals and regional blood centers •Contracts for other sites Number of contracts signed between June 2008–June 2009 | 0 2 (Canada, Hong Kong) 0 0 | 0 3 (Canada) 0 5 | |
| Total number of sites operating blood bank system Number of sites that went live between June 2008–June 2009 Installations not yet live (hospitals/regional blood centers/others) Percentage of installations that are standalone blood bank systems | 12 3 3 (0/3/0) 10% | 119 21 13 (13/0/0) 0 | 3 [†] 1 — — |
| Staff to develop/install and support/other* in entire company Staff to develop/install and support/other* in blood bank systems | 78/65/84 28/20/34 | 31,500 total 49/108/43 ^{††} | 643/1,577/510 22/80/5 |
| Number of different versions of this software installed •Versions of product in field covered by FDA 510(k) clearance •Versions of product that did not require FDA 510(k) clearance | 3 Prelude 1.3, Symphony 2.1, Symphony 2.4 — | 3 SafeTrace Tx 3.2, 3.3, 3.4 — | 3 Magic, client/server, 6.0 — |
| Range in number of interactive workstations in live sites (average) | 4-50+ (average, 15) | 1–6 (average, 2) | _ |
| Central hardware or services type Workstations or PC platform | Microsoft compatible Windows XP | Intel- and Unix-based servers PCs | Hewlett-Packard, Dell, EMC, IBM any Windows-compliant PC using Windows 2000 Professional or higher |
| Software programming language(s) Operating system(s) Databases and tools | Java Windows server Oracle | Delphi, SQL, Crystal Reports Windows XP Professional, Windows 2003 (Unix optional) Oracle | self-developed programming language Windows server 2003 Enterprise x64 Edition or Datacenter 64 Edition Meditech database management system |
| Features (listed as percentage of live installs or based on availability) | | | · · · · · · · · · · · · · · · · · · · |
| Full support of ISBT 128 unit labeling Bar-code reading of donor and unit information Unit inventory | 100% 100% 100% | installed installed installed | installed 100% 100% |
| Autologous and directed unit tracking Direct entry of test results | 100% 100% | installed installed | 100% 100% |
| Crossmatch results Electronic crossmatch decisionmaking | not available not available | installed installed | 100% installed |
| Antigen typing | not available | installed | installed |
| Integrated bedside check for transfusion Track all steps in production of product | not available 100% | available in 2009 through company's LIS installed | installed installed |
| Print donor unit labels—bar coded Interface with automated instruments | 100% 100% | installed installed | installed installed |
| •Interface with blood irradiator or centrifuges | not available | installed | not available |
| Centralized transfusion service capability Donor recruitment and management/donor questionnaire | not available not available/100% | installed available via third party/available via third party | installed installed/installed |
| Mobile scheduling | available via Altivation Software's Hemasphere | available via third party | installed |
| Laptop-based mobile donor registration module Source or recovered plasma management | 100% 100% | available via third party available via third party | installed installed |
| Accounts receivable Management reports/ad hoc report writer | not available 100%/100% | available via third party installed/installed | installed 100%/100% |
| •Quality control management/collection management | not available/100% | installed/available through company's LIS | installed/installed |
| System provides standard HL7 interface? Interfaces to automated donor infectious disease testing instruments Interfaces to automated ABO/Rh/antibody screening instruments EDA 510(k) approved interface to hadride potient ID question? | no uni-directional to Ortho, Immucor, Abbott, Olympus uni-directional to Ortho, Immucor, Abbott, Olympus | yes (version 2.2 and higher) — uni- and bi-directional to Ortho, Immucor, Olympus | yes (version 2.4) — uni-directional to Ortho, Immucor |
| FDA 510(k)-approved interface to bedside patient ID system? •HISs interfaced to bedside patient ID system | <u>no</u> | <u> </u> | yes (to Meditech solutions) — |
| Languages (other than English) offered on system Tools to help clients validate their systems | user manuals, configuration worksheets, training classes and materials, validation guide, others | validation services and guidelines available for purchase from recommended third parties | Spanish in development user manual to address validation issues, training |
| Complete blood bank ASP solution? Method of charging for ASP service Client software required | yes fixed fee browser based or requires software be installed on a | yes fixed fee or transaction based browser based or requires software be installed on | no — — |
| ASP information conduit | client PC requires use of a VPN or other dedicated connection | a client PC operates over the Internet or requires use of a VPN or other dedicated connection | - |
| Client contracts supported from data center not operated by client How data center is operated | by vendor | <u> </u> | = |
| System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? | no no | no no | yes no |
| Information system interfaces | BBCS, Cerner, Mak-System, Mediware, Wyndgate | McKesson | Cerner, Siemens, McKesson, others |
| User group? Source code? User can modify screens? | yes (meets in person annually) escrow no | yes (meets in person annually) escrow no | yes (meets in person and via Internet) yes yes |
| User-defined report writer/custom programming? | yes/yes | yes/no | yes/no |
| Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance | _ _ | _ | _ _ |
| Distinguishing features (supplied by vendor) | through the use of devices, consulting services, and software, Haemonetics provides a comprehensive approach to assisting customers complete software solution for blood centers, from recruitment through laboratory testing commitment to the entire blood management market, from donors to patients, through company's software, services, and devices | numerous safety features, including Patient-At-A-Glance Bar patented CTS feature as part of the "Method and System for Managing Blood Products" Wyndgate's Service 360 commitment to ensure a quality implementation and support experience **Tooline** ** | blood bank an integrated component of Meditech's HCIS blood bank and patient care solution fully integrated, fostering the sharing of blood bank transfusion information into a transfusion administration record, which uses bar-code readers to promote bedside transfusion verification provides electronic crossmatching |
| *other=sales, marketing, administration, other company functions Note: a dash in lieu of an answer means company did not answer question or | †formerly IDM Symphony | rsoftware for Horizon Blood Bank supplied by Wyndgate Technologies ††from Wyndgate Technologies (software supplier) | †based on total number of corporate sites, not individual sites |

| | Diega Barik iii giriic | | |
|---|--|---|---|
| Part 3 of 6 | Medical Information Technology | Medical Information Technology | Mediware Information Systems |
| | Paul Berthiaume pberthiaume@meditech.com Meditech Circle | Paul Berthiaume pberthiaume@meditech.com Meditech Circle | Steve Sedlock steve.sedlock@mediware.com 1900 Spring Rd., Suite 450 |
| See accompanying article on page 16 | Westwood, MA 02090 781-821-3000 www.meditech.com | Westwood, MA 02090 781-821-3000 www.meditech.com | Oak Brook, IL 60523 630-218-2700 www.mediware.com |
| | 781-821-3000 www.meditecn.com Blood Bank System–Client/Server | Blood Bank System-Magic | HCLL Transfusion and Donor |
| Name of blood bank system | 1981/June 2009 | 1981/June 2009 | 1980/2009 |
| First ever/most recent blood bank system installation Last major product release (for product featured) | April 2008 | July 2008 | 2008 |
| Total number of contracts for sites operating blood bank system •Contracts for U.S. hospitals with donor and transfusion services | 343 | 777 — | 100 2 |
| Contracts for U.S. hospitals with transfusion service only | _ | _ | 68 |
| Contracts for U.S. regional blood centers with donor service only Contracts for U.S. regional blood centers with donor and | _ | _ | 5 |
| transfusion services •Contracts for centralized transfusion services in the U.S. | | _ | 2 20 |
| Contracts for foreign hospitals and regional blood centers | 59 (Canada, Puerto Rico, Ireland, UAE, others) | 88 (Canada, Puerto Rico, Ireland, UAE, others) | 3 (Singapore, Saudi Arabia, Ireland) |
| Contracts for other sites Number of contracts signed between June 2008–June 2009 | | - 14 | <u> </u> |
| Total number of sites operating blood bank system | 296 [†] | 662 [†] | 249 |
| Number of sites that went live between June 2008–June 2009 Installations not yet live (hospitals/regional blood centers/others) | 43 31 | 10 4 | 110 120 (120/0/0) |
| Percentage of installations that are standalone blood bank systems | <u> </u> | _ | 85% |
| Staff to develop/install and support/other* in entire company | 643/1,577/510 | 643/1,577/510 | 50/85/45 |
| Staff to develop/install and support/other* in blood bank systems | 22/80/5 | 22/80/5 | 32/50/11 |
| Number of different versions of this software installed •Versions of product in field covered by FDA 510(k) clearance | 3 Magic, client/server, 6.0 | 3 Magic, client/server, 6.0 | 12 3.0 |
| Versions of product that did not require FDA 510(k) clearance | _ | _ | HCLL 2.9.0, 2.9.1, 2.9.2, 2.9.3, 2.9.4, 2.9.5, 3.1.0, 3.2.0; Donor 2.0.0, 2.1.0, 2.2.0 |
| Range in number of interactive workstations in live sites (average) | _ | _ | 2–50 (average, 8) |
| Central hardware or services type | Hewlett-Packard, Dell, EMC, IBM | Hewlett-Packard, Dell, EMC, IBM | Microsoft compatible |
| Workstations or PC platform | Hewlett-Packard, Dell, EMC, IBM | Hewlett-Packard, Dell, EMC, IBM | Microsoft compatible |
| Software programming language(s) Operating system(s) | Magic Windows 2000, XP (client); Windows 2000, 2003 (server) | Magic Windows 2000, XP (client); Magic (server) | Visual Basic, C++, Microsoft .Net Windows XP, 2000, 2003, 2005 |
| Databases and tools | Magic, SQL Server 2005 | Magic, SQL Server 2005 | Microsoft SQL 2000, 2005 |
| Features (listed as percentage of live installs or based on availability) | | | |
| Full support of ISBT 128 unit labeling Bar-code reading of donor and unit information | installed 100% | 100% 100% | installed installed |
| Unit inventory | 100% | 100% | installed |
| Autologous and directed unit tracking Direct entry of test results | 100% 100% | 100% 100% | installed installed |
| Crossmatch results | 100% | 100% | installed |
| Electronic crossmatch decisionmaking Antigen typing | installed installed | installed installed | installed installed |
| •Integrated bedside check for transfusion | installed | installed | available but not installed |
| *Track all steps in production of product *Print donor unit labels—bar coded | installed installed | 100% installed | installed installed |
| •Interface with automated instruments | installed | installed | installed |
| •Interface with blood irradiator or centrifuges •Centralized transfusion service capability | not available installed | not available 100% | not available installed |
| Donor recruitment and management/donor questionnaire Mahila cabadyling | installed/installed | installed/installed installed | installed/not available not available |
| Mobile scheduling Laptop-based mobile donor registration module | installed installed | installed | not available |
| Source or recovered plasma management Accounts receivable | installed installed | installed installed | not available installed |
| Management reports/ad hoc report writer | 100%/100% | 100%/100% | installed/installed |
| •Quality control management/collection management | installed/installed | installed/installed | installed/installed |
| System provides standard HL7 interface? Interfaces to automated donor infectious disease testing instruments | yes (version 2.4) — | yes (version 2.4) — | yes (version 3.2) uni-directional to BSL |
| Interfaces to automated ABO/Rh/antibody screening instruments | uni-directional to Ortho, Immucor | uni-directional to Ortho, Immucor | uni-directional to Biotest |
| FDA 510(k)-approved interface to bedside patient ID system? •HISs interfaced to bedside patient ID system | yes (to Meditech solutions) | yes (to Meditech solutions) | yes (to Mediware BloodSafe Tx) — |
| Languages (other than English) offered on system | Spanish in development | Spanish in development | none |
| Tools to help clients validate their systems | user manual to address validation issues, training | user manual to address validation issues, training | validation scripts |
| Complete blood bank ASP solution? Method of charging for ASP service | no | no | no |
| Client software required | _ | _ | = |
| ASP information conduit Client contracts supported from data center not operated by client | _ | Ξ | |
| How data center is operated | | | |
| System provides indexed field in each test definition for LOINC code? | yes | yes | no |
| Provide LOINC dictionary for each new installation? | no | no Cerner, Siemens, McKesson, others | 10 |
| Information system interfaces | Cerner, Siemens, McKesson, others | ociner, siemens, weresson, others | Cerner, McKesson, Epic, Meditech, SCC Soft Computer, Sunquest, Opus, Invision, others |
| User group? | yes (meets in person and via Internet) | yes (meets in person and via Internet) | yes (meets in person annually; via Internet quarterly) |
| Source code? User can modify screens? | yes yes | yes yes | escrow yes |
| User-defined report writer/custom programming? | yes/no | yes/no | yes/no |
| Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance | _ | _ | \$19.259k/\$46.5k/\$71.63k/\$.894k to \$32.562k/\$265k/\$75.09k/\$4.9k |
| Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance | _ | _ | \$32.562K/\$265K/\$75.09K/\$4.9K \$33.881k/\$58.5k/\$85.98k/\$1.414k to \$49.298k/\$277k/\$89.44k/\$5.42k |
| Distinguishing features (supplied by vendor) | blood bank an integrated component of Meditech's | blood bank an integrated component of Meditech's | offers a seamlessly integrated, ClosedLoop solution |
| | HCIS • blood bank and patient care solution fully integrated, | HCIS • blood bank and patient care solution fully integrated, | that begins with donor collection and ends with final disposition of blood product |
| | fostering the sharing of blood bank transfusion | fostering the sharing of blood bank transfusion infor- | uses color-coded alerts for inventory management |
| | information into a transfusion administration record, which uses bar-code readers to promote bedside | mation into a transfusion administration record, which uses bar-code readers to promote bedside transfusion | and patient data over 60 safety checks performed at the time of editing |
| | transfusion verification • provides electronic crossmatching | verification • provides electronic crossmatching | test entry, selection of products, and issuing |
| | F. C. LECS C. COLI CITIC STOCKHILL CHILING | | |
| *other=sales, marketing, administration, other company functions | | | |
| *other=sales, marketing, administration, other company functions Note: a dash in lieu of an answer means company did not answer question or question is not applicable | †based on total number of corporate sites, not individual sites | [†] based on total number of corporate sites, not individual sites | |

| Client contracts supported from data center not operated by client how data center is operated by a third party (Peer1) by a third party (Peer1) per provide LOINC dictionary for each new installation? Information system interfaces Cerner Cerner Cerner Ves (meets in person at least annually) escrow user conder yes User defined report writer/custom programming? User group? User defined report writer/custom programming? Information system interfaces Strik/\$75k/—/\$2.085k to \$250k/\$400k/—/\$35.415k & training/monthly maintenance Distinguishing features (supplied by vendor) Town recruiting to testing to translation and decision support increase productivity and safety "other=sales, marketing, administration, other company functions" "other=sales, marketing, administration, other company functions" | | 2.000 Barm | | |
|--|--|---|--|--|
| March Marc | Part 4 of 6 | Mediware Information Systems | NetLims LLC | Psyche Systems Corp. |
| Montanipular and Europe Montanipular Montanipular and Europe M | | | | |
| Management Man | | | • • | |
| Marie of M | | · · · · · · · · · · · · · · · · · · · | • • | • |
| Marie Mari | See accompanying article on page 16 | 904-281-0467 www.mediware.com | 201-894-5300 www.netlims.com | 508-4/3-1500 www.psycnesystems.com |
| Lance Lanc | Name of blood bank system | LifeTrak | AutoFusion [†] | Systematic Blood Bank |
| Lance Lanc | First ever/most recent blood bank system installation | 1980/June 2009 | 2002/April 2009 | 1987/October 2008 |
| Seventia bit Savegath eth Journal Parlament michael or | | | • | _ |
| Section 10.5 page 10.5 | Total number of contracts for sites operating blood bank system | 14 | 3 | 16 |
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| Seminate Seminate present in the control of the | • | | 0 | |
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| Variation of products in find convert by 184 300 (particus 1 194 1 | | | 7/10/3 | |
| Name of product and and not not not service (PAS Simily) (Passer), 1999 | | | · · | • |
| Contact Institution transport of inforcition evidentifies in less than provided in the state of provided in the state o | · · · · · · · · · · · · · · · · · · · | • | | 2RR 3'0 |
| March price processing types March price processing processing processing processing processing processing processing processing of the incidence of march processing processing processing of the incidence of march processing p | -versions of product that did not require FDA 510(K) clearance | 3.1.0, 3.1.2, 3.2, 3.3, 3.4.1, 4.2 | 3.01-20070301, 2.42-20040301 | _ |
| Winder page | Range in number of interactive workstations in live sites (average) | 7–335 (average, 100) | 8–37 (average, 22) | 1–5 (average, 2) |
| Winder page | Central hardware or services type | Intel-based server (Linux) | Wintel (HP, IBM, Dell) | HP Alpha |
| Content Cont | ** | · · · | | |
| Decreasing partners | Software programming language(s) | Oracle Forms and Poports | C++ | Fortran |
| Detablement Interest speciment of the interesting or through on substitution | | • | | |
| Peabure part and protecting of the submitted part of the statistic of part of the statistic of the statist | 1 | | • | |
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| **Intigration **Intigratio | Crossmatch results | not available | 100% | 100% |
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| File Inferface with Journal Leaf instruments File Inferface with Journal Inferface cerebility or available in December 2009 Foundation from from from from from from from from | | | | |
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| ************************************** | | | | |
| **Japop-based models denor registration module **Source or recorned plasma management **Accounts receivable ** | Donor recruitment and management/donor questionnaire | | 82%/82% | not available/not available |
| **Source or coovered plasma management of plasma management of pertical biot ceptar white control was available but not installed available but not installed several polary to varieble (100%-100%-100%-100%-100%-100%-100%-100% | Mobile scheduling | 94% | available but not installed | not available |
| **Accounts receivable** | | · | | |
| - Vanishing control management control continuance management college from man | | 94% | | |
| System provides standard H.7 interface? System provides standard H.7 interface? Interfaces to automated ABO/Rhi/antitioody screening instruments interface to bedside patient ID system? PRDA 510(k)-approved interface to bedside patient ID system? Cernet, McMesson, Epic, Meditect, SCC Soft Computer, and the provides instruction of the provides interface to bedside patient ID system? Cernet, McMesson, Epic, Meditect, SCC Soft Computer, and the provides instruction of the provides instruction of the provides instruction of charging for ASP sortion? Complete blood bank ASP solution? Method of charging for ASP sortion Client sortinars are provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? System provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch text definition for LOIKCode? Postem provides induced field in auch | | 1000//1000/ | | |
| System provides standard H.Z interface? interfaces to automated door infectious disease testing instruments interfaces to automated door infectious disease testing instruments interfaces to automated door infectious disease testing instruments interfaces to automated data (Ph.Z interfaces) and interfaces (Ph.Z interface | | | | |
| Interfaces to automated donor infectious disease testing instruments Content of the Content of | •quality control management/conection management | 100%/94% | available ulrough company's Lis or via unitu party/100% | 100%/110t available |
| Diafe/USP-0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | | | | yes (version 2.3) |
| Indifferences to automated ABD/Rhi/antitlody screening inshruments PIA STOIK)-approved interface to bedside patient ID system? Yes Carner, McKesson, Epic, Meditech, SCC Soft Computer, Sunquest, Opias, Invision, others Complete blood bank ASP solution? Complete blood bank ASP solution? Method of charping for ASP service Client countracts supported from data center not operated by client Client countracts supported from data center not operated by client Client countracts supported from data center not operated by client Client countracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data center not operated by client Client contracts supported from data cente | Interfaces to automated donor infectious disease testing instruments | | uni-directional to Vidas; bi-directional to Abbott | _ |
| PAS 10(k)-approved interface to bedside patient ID system? | Interfaces to automated ARO/Rh/antibody coroning instruments | | uni-directional to Wadiana; hi-directional to Immuser | _ |
| FIA 510(k)-approved inferface to bedside patient II 9ystem? *Hilss interfaced to bedside patient II 9ystem? *Hilss interfaced to bedside patient II 9ystem? *Hilss interfaced to bedside patient II 9ystem? *Tools to help defined a spiken in English) offered on system? Tools to help defined rispstums *Tools to fixed rispstum the rispstum that features *Tools to fixed rispstum the rispstum that features th | iniciaces io automateu Abo/nivantibuty screening ilistruments | | uni un cononai to watiana, pi-un conoliai to illillideor | |
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| Tools to help clients validate their systems release notes, validation services, training Complete blood bank ASP solution? Method of charging for ASP service fixed fee requires use of a VPN or other dedicated connection | , | | | |
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| Complete blood bank ASP solution? Method of charging for ASP service Fixed fee Discover based | Tools to help clients validate their systems | release notes, validation services, training | | validation guide |
| Method of charging for ASP service Fixed fee Drowser based Drowser bas | | | screens | |
| Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? Ocerner User group? User amodify screens? User-darmed report writer/custom programming? Cost for smallest & largest tradeone HW/SW/install & training/monthly maintenance Cost for smallest & largest targed HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) Distinguishing features (supplied by vendor) Distinguishing features (supplied by cempany functions Distinguishing features (supplied by cempany functions Distinguishing features (supplied by cempany functions Distinguishing administration, other company functions Distinguishing administration, other company functions Distinguishing features (supplied by cempany functions) Distinguishi | Complete blood bank ASP solution? | yes | no | yes |
| ASP information conduit requires use of a VPN or other dedicated connection 1 14 14 14 14 14 14 14 14 14 14 14 14 1 | | fixed fee | _ | fixed fee |
| Client contracts supported from data center not operated by client how data center is operated by a third party (Peer1) by a section provide unpartition provide unpartition by a third party (Peer1) by a third party (Peer1 | • | | - | |
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| System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? Information system interfaces Cerner ————————————————————————————————— | | hy a third party (Boord) | _ | |
| Provide LOINC dictionary for each new installation? Information system interfaces Cerner ————————————————————————————————— | | uy a unru party (reeri) | _ | by venuor |
| Information system interfaces Cerner yes (meets in person at least annually) escrow User can modify screens? User can modify screens? User defined report writer/custom programming? Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) **Other=sales, marketing, administration, other company functions Cerner — yes (meets in person approximately biannually) escrow yes yes/no \$25k/\$150k/—\$3k to \$70k/\$500k/—\$8k —/\$275k/—\$4.5k to -/\$1.8k/—\$30k — **Other=sales, marketing, administration, other company functions **Other=sales, marketing, administration, | 1 7 . | | | |
| User group? Source code? User can modify screens? User-defined report writer/custom programming? Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) **Comprehensive donor-management system that features full integration with recruitment and retention products to streamline efficiencies **User defined report writer/custom programming? **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance **Grow yes **Cs5k/\$150k/—/\$3k to \$70k/\$500k/—/\$8k | Provide LUING dictionary for each new installation? | no | по | по |
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| User-defined report writer/custom programming? no/no yes/yes yes/no Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) **There-sales, marketing, administration, other company functions no/no yes/yes yes/no | = - | | | |
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| & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) • comprehensive donor-management system that features full integration with recruitment and retention products to streamline efficiencies • used by prestigious hospitals and many large independent blood centers in the United States • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions -/\$275k/—/\$4.5k to —/\$1.8k/—/\$30k | User-defined report writer/custom programming? | no/no | yes/yes | yes/no |
| & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) • comprehensive donor-management system that features full integration with recruitment and retention products to streamline efficiencies • used by prestigious hospitals and many large independent blood centers in the United States • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions -/\$275k/—/\$4.5k to —/\$1.8k/—/\$30k | | \$15k/\$75k/—/\$2.085k to \$250k/\$400k/—/\$35.415k | <u> </u> | _ |
| *other=sales, marketing, administration, other company functions *comprehensive donor-management system that features (supplied by vendor) *comprehensive donor-management system that features full integration with recruitment and retention products to streamline efficiencies *used by prestigious hospitals and many large independent blood centers in the United States *from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions *other=sales, marketing, administration, o | & training/monthly maintenance | , | | |
| Distinguishing features (supplied by vendor) • comprehensive donor-management system that features full integration with recruitment and retention products to streamline efficiencies • used by prestigious hospitals and many large independent blood centers in the United States • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology • graphical, user-friendly, simple interface • higher level of automation and decision support increase productivity and safety • user-level configuration, setup, and user logic engine integration provide unparalleled ability to customize • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology | l a | - | —/\$275k/—/\$4.5k to —/\$1.8k/—/\$30k | _ |
| features full integration with recruitment and retention products to streamline efficiencies used by prestigious hospitals and many large independent blood centers in the United States from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions • higher level of automation and decision support increase productivity and safety user-level configuration, setup, and user logic engine integration provide unparalleled ability to customize • higher level of automation and decision support increase productivity and safety user-level configuration, provide unparalleled ability to customize • SBT 128 compliant; FDA approved engine integration provide unparalleled ability to customize | | | | |
| retention products to streamline efficiencies used by prestigious hospitals and many large independent blood centers in the United States from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions retention products to streamline efficiencies user-level configuration, setup, and user logic engine integration provide unparalleled ability to customize *IBBT 128 compliant; FDA approved engine integration provide unparalleled ability to customize | Distinguishing features (supplied by vendor) | | | |
| used by prestigious hospitals and many large independent blood centers in the United States from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions user-level configuration, setup, and user logic engine integration provide unparalleled ability to customize ISBT 128 compliant; FDA approved engine integration provide unparalleled ability to customize | | | | • • • • • • • • • • • • • • • • • • • |
| independent blood centers in the United States • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions independent blood centers in the United States engine integration provide unparalleled ability to customize | | • | | |
| • from recruiting to testing to transfusion, more than 60% of the nation's blood supply uses Mediware technology *other=sales, marketing, administration, other company functions • from recruiting to testing to transfusion, more than customize technology | | independent blood centers in the United States | | |
| *other=sales, marketing, administration, other company functions technology | | | customize | |
| *other=sales, marketing, administration, other company functions | | | | |
| Notes a deah in liqui of an anguer magne company did not anguer question or | | connoingy | | |
| France | Note: a dash in lieu of an answer means company did not answer question or | | †product received FDA approval in July; not yet installed in | |
| question is not applicable United States | question is not applicable | | united States | |

| | | Biood bank informa | | |
|---|---|---|--|--|
| Γ | Part 5 of 6 | SCC Soft Computer | SCC Soft Computer | Sunquest Information Systems |
| | | Ellie Vahman ellie@softcomputer.com 5400 Tech Data Drive | Ellie Vahman ellie@softcomputer.com 5400 Tech Data Drive | Elinore Craig elinore.craig@sunquestinfo.com 250 S. Williams Blvd. |
| | Con annual view antide an unua 40 | Clearwater, FL 33760 | Clearwater, FL 33760 | Tucson, AZ 85711 |
| ŀ | See accompanying article on page 16 | 727-789-0100 www.softcomputer.com | 727-789-0100 www.softcomputer.com | 877-239-6337 www.sunquestinfo.com |
| H | Name of blood bank system | SoftBank II | SoftDonor | Sunquest Laboratory Blood Bank & Blood Donor modules† |
| | First ever/most recent blood bank system installation Last major product release (for product featured) | 1992/June 2009 June 2009 | 1992/June 2009 January 2009 | 1985/2009 2009 |
| | Total number of contracts for sites operating blood bank system •Contracts for U.S. hospitals with donor and transfusion services | 173 15 | 17 15 | 353 37 |
| | Contracts for U.S. hospitals with transfusion service only | 152 | 0 | 303 |
| | Contracts for U.S. regional blood centers with donor service only Contracts for U.S. regional blood centers with donor and | 0 | 1 | 0 |
| | transfusion services •Contracts for centralized transfusion services in the U.S. | 0 | 0 | 0 |
| | Contracts for foreign hospitals and regional blood centers | 6 (Canada) | 1 (Canada) | 13 (Bermuda, Canada, Ireland, UAE, UK) |
| | Contracts for other sites Number of contracts signed between June 2008–June 2009 | 0 4 | 0 | 0 8 |
| | Total number of sites operating blood bank system | 268 | 46 | 400+ |
| | Number of sites that went live between June 2008–June 2009 Installations not yet live (hospitals/regional blood centers/others) | 31 11 (11/0/0) | 1 (0/0/1 – university health system) | 8 (8/0/0) |
| | Percentage of installations that are standalone blood bank systems | 4% | <u> </u> | 0 |
| | Staff to develop/install and support/other* in entire company Staff to develop/install and support/other* in blood bank systems | 833/419/240 35/23/15 | 833/419/240 35/23/15 | Ξ |
| H | Number of different versions of this software installed | 8 | 3 | 3 |
| | Versions of product in field covered by FDA 510(k) clearance | 19.1, 21, 22, 23, 23 with SoftScape, 23.1 with DMSI | 4.3, 4.4, 4.5 | Sunquest Laboratory Blood Bank and Blood Donor |
| | Versions of product that did not require FDA 510(k) clearance | (Oracle), 23.2, 25 — | _ | v6.0.1 for Laboratory v6.1 and v6.2 Sunquest Laboratory Blood Bank and Blood Donor v6.0.2 |
| | | | | distributed with Laboratory v6.3, Sunquest Laboratory Blood Bank and Blood Donor v6.4 |
| F | Range in number of interactive workstations in live sites (average) | 1–100+ (average, 8) | 3-10 (average, 8) | 10-100+ (average, 20+) |
| | Central hardware or services type | IBM pSeries | IBM pSeries | IBM pSeries, HP Integrity |
| - | Workstations or PC platform | PC | PC | Dell, HP Windows |
| | Software programming language(s) | C, C++, .Net | C, C++, .Net | ANSI Standard M, Caché Script, Standard C/C++, Visual Basic, Visual C++, Active X |
| | Operating system(s) Databases and tools | IBM AIX (Unix) Oracle | IBM AIX (Unix) Oracle | AIX, HP-UX, OpenVMS InterSystems Caché |
| ŀ | Features (listed as percentage of live installs or based on availability) | Uracie | Uracie | mersystems cache |
| | •Full support of ISBT 128 unit labeling | 70% | available | 100% |
| | Bar-code reading of donor and unit information Unit inventory | 100% 100% | 100% 100% | 100% 100% |
| | Autologous and directed unit tracking Direct entry of test results | 100% 100% | 100% 100% | 100% 100% |
| | Crossmatch results | 100% | available via SCC's SoftBank | 100% |
| | Electronic crossmatch decisionmaking Antigen typing | 70% 100% | available via SCC's SoftBank 100% | 15% 100% |
| | •Integrated bedside check for transfusion | available in 2010 | available in 2010 | 1% |
| | Track all steps in production of product Print donor unit labels—bar coded | 100% 30% | 100% available through company's LIS or via third party | 100% 15% |
| | •Interface with automated instruments •Interface with blood irradiator or centrifuges | 30% 10% | available via SCC's SoftBank available via SCC's SoftBank | 15% not available |
| | Centralized transfusion service capability | 10% | available via SCC's SoftBank | 100% |
| | Donor recruitment and management/donor questionnaire Mobile scheduling | available via SCC's SoftDonor (both features) available via SCC's SoftDonor | 100%/100% 50% | 15%/not available not available |
| | Laptop-based mobile donor registration module | available via SCC's SoftDonor | 90% | not available |
| | Source or recovered plasma management Accounts receivable | 10% 95% | 100% 100% | installed 90% (charge capture) |
| | Management reports/ad hoc report writer Quality control management/collection management | 100%/100% 100%/100% (specimen collection) | 100%/100% 50%/100% | 100%/100% 100%/25% |
| - | System provides standard HL7 interface? | 100%/100% (specimen collection) yes (versions 2.1–2.5) | yes (versions 2.1–2.5) | yes (versions 2.3–3.0) |
| | Interfaces to automated donor infectious disease testing instruments | <u>_</u> ` _ ' | _ | _ ` |
| | Interfaces to automated ABO/Rh/antibody screening instruments | uni- and bi-directional to Ortho, Immucor | _ | uni-directional to Ortho, Immucor, Abbott, Olympus, DiaMed/Bio-Rad; bi-directional to Ortho |
| | FDA 510(k)-approved interface to bedside patient ID system? •HISs interfaced to bedside patient ID system | yes (to SCC SoftID, CareFusion, BD.ID, Lattice) | yes (to SCC SoftID, CareFusion, BD.ID, Lattice) | yes (to Sunquest solutions) Epic, Cerner, McKesson, Siemens, Eclipsys |
| | Languages (other than English) offered on system | French | none | - |
| | Tools to help clients validate their systems | critical control points and instructions on how to write test cases with electronic screen capture | critical control points and instructions on how to write test cases with electronic screen capture | client testing guidelines, documentation, training, consulting services |
| l | Complete blood bank ASP solution? | yes | yes | no |
| | Method of charging for ASP service Client software required | fixed fee requires software be installed on a client PC | fixed fee requires software be installed on a client PC | _ |
| | ASP information conduit | operates over the Internet | operates over the Internet | _ |
| | Client contracts supported from data center not operated by client How data center is operated | 0 by vendor | 0 by vendor | = |
| ľ | System provides indexed field in each test definition for LOINC code? | no | no | no |
| - | Provide LOINC dictionary for each new installation? | Moditoch McKessen Siemens CE Healthears Corner | Moditoch Mekassan Siamana CE Haalthaara Carner | NO Enia Makasaan Maditaah Siamana Edinaya Carnar |
| | Information system interfaces | Meditech, McKesson, Siemens, GE Healthcare, Cerner, CPSI, QuadraMed, Epic, Eclipsys, others | Meditech, McKesson, Siemens, GE Healthcare, Cerner, CPSI, QuadraMed, Epic, Eclipsys, others | Epic, McKesson, Meditech, Siemens, Eclipsys, Cerner, GE Healthcare, others |
| | User group? | yes (meets in person annually) | yes (meets in person annually) | yes (meets in person and via Internet quarterly) |
| | Source code? User can modify screens? | escrow no | escrow no | escrow no |
| | User-defined report writer/custom programming? | yes/yes | yes/yes | yes/yes |
| | Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance | \$25k/\$30k/\$50k/\$.45k to \$50k/\$125k/\$80k/\$1.875k | \$25k/\$30k/\$50k/\$.45k to \$50k/\$125k/\$80k/\$1.875k | - |
| | Cost for smallest & largest integrated HW/SW/install | \$40k/\$215k/\$150k/\$4.59k to \$400k/\$2.5m/\$1.1m/\$35k | \$40k/\$215k/\$150k/\$4.59k to \$400k/\$2.5m/\$1.1m/\$35k | - |
| F | & training/monthly maintenance Distinguishing features (supplied by vendor) | warns user of inconsistencies, errors, omissions, and | • noworful user-defined test algorithms con | • vein-to-vein data management of engainer collection |
| | Distinguishing leatures (supplied by Vendor) | presents user with an exception to describe problem | powerful, user-defined test algorithms can automatically order required, repeat, and | vein-to-vein data management of specimen collection, patient testing, crossmatch, issue, and transfusion |
| | | before user can proceed; exception sent to manager for review | confirmatory tests • detailed donor database search capability increases | full integration with LIS for reporting, inquiry, maintenance, and quality assurance |
| | *other=sales, marketing, administration, other company functions Note: a dash in lieu of an answer means company did not answer question or | user-definable worksheet allows for resulting of patient, unit, and crossmatch tests in batch mode | effectiveness of targeted recruiting efforts all significant steps in the donation process | unit inventory tracking and management |
| | Note: a dash in lieu of an answer means company did not answer question or question is not applicable | emergency issue feature combines tasks | documented | †formerly Misys Laboratory Blood Bank |
| _ | | | | |

| See Companying price on page 1 | | Biood Bank informs | | |
|--|---|---|---|---|
| Heaven services label laws green windered best from the product services of th | Part 6 of 6 See accompanying article on page 16 | Scott Dustin dustins@globalmedtech.com 4925 Robert J. Mathews Parkway, Suite 100 El Dorado Hills, CA 95762 | Scott Dustin dustins@globalmedtech.com 4925 Robert J. Mathews Parkway, Suite 100 El Dorado Hills, CA 95762 | Scott Dustin dustins@globalmedtech.com 4925 Robert J. Mathews Parkway, Suite 100 El Dorado Hills, CA 95762 |
| Landenger product forcing for product between 1 and 1 | Name of blood bank system | ElDorado Donor | SafeTrace | SafeTrace Tx |
| | First ever/most recent blood bank system installation Last major product release (for product featured) Total number of contracts for sites operating blood bank system | 1996/— [†] August 2008 5 [†] | 1996/January 2009 February 2006 57 | 1996/July 2009 May 2009 266 |
| Capacitate (mile mile | Contracts for U.S. hospitals with transfusion service only Contracts for U.S. regional blood centers with donor service only Contracts for U.S. regional blood centers with donor and | 0 1 [†] 1 [†] | 0 23 10 | 213 0 10 |
| Maritime of definition colours | Contracts for foreign hospitals and regional blood centers Contracts for other sites Number of contracts signed between June 2008–June 2009 Total number of sites operating blood bank system Number of sites that went live between June 2008–June 2009 Installations not yet live (hospitals/regional blood centers/others) Percentage of installations that are standalone blood bank systems | 0 4 0 [†] 0 5 (3/2/0) | 1 (hospital donor center using other transfusion) 2 281 19 | 2 (regional donor centers with transfusion only) 23 300 24 95 (94/1/0) |
| **Westing and product to list coverage by 175-150 (and promises of section of | Staff to develop/install and support/other* in entire company Staff to develop/install and support/other* in blood bank systems | | | |
| Control Indication or services type (Wicksheims or Pg.) Deptine (Wicksheims or Pg.) De | Number of different versions of this software installed •Versions of product in field covered by FDA 510(k) clearance •Versions of product that did not require FDA 510(k) clearance | | | |
| Wistodemognophic personal programmin programmin (programmin programmin progr | Range in number of interactive workstations in live sites (average) | <u> </u> | 4-100+ (average, 20) | 1–105 (average, 7) |
| Non-rising systems Variety Var | Central hardware or services type Workstations or PC platform | Windows | PCs | PCs |
| The state of the s | Software programming language(s) Operating system(s) | Windows, determined by Oracle | Unix | Windows XP Professional, Windows 2003, determined by Oracle |
| **Installed 100% 100% 100% 100% 100% 100% 100% 100 | Databases and tools | Oracle | Oracle | Oracle, Crystal Reports |
| **Alektops and directed with tracking in t | Full support of ISBT 128 unit labeling Bar-code reading of donor and unit information | | | |
| **Cossmants results **Coss | Unit inventory Autologous and directed unit tracking Direct entry of test results | installed | 100% | 100% |
| **Integrated basiles check for translations or motavailable via third party installed | Crossmatch results Electronic crossmatch decisionmaking | available via Wyndgate's SafeTrace Tx available via Wyndgate's SafeTrace Tx | available via Wyndgate's SafeTrace Tx available via Wyndgate's SafeTrace Tx | 100% 70% |
| referrace with amounted instruments interfered with amounted instruments available in 2009 10% 10% 10% 10% 10% 10% 10% 10% 10% 10% | Integrated bedside check for transfusion | | not available | |
| **Interface with board author author author author certifuge **Charakter Capability **Charakter Capa | Track all steps in production of product Print donor unit labels—bar coded | | | |
| **Centralized translations service capability** **Defore recruitment and management/dourd questionarians** **Windpale's ElDorrido Donor Doc.** **Windpale's | •Interface with automated instruments | available in 2009 | 100% | installed |
| Nobile scheduling **Laptop-based models donor registration module **Accounts recoverable **Acco | Centralized transfusion service capability | not available | installed | 100% |
| **Source or recovered plasma management **Accounts recording the Accounts from callaber of available via third party **Accounts from callaber via the party **Accounts from callaber via third party **Accounts from callaber via the party **Accounts from callaber via | Mobile scheduling | Wyndgate's ElDorado Donor Doc available via Wyndgate's eDonor | 100% | Wyndgate's ElDorado Donor Doc available via Wyndgate's eDonor |
| **Management reports vial from copport writer valuality control management related from available of will willy willy dept it is Sapanet/installed valuality control management related from inferiors of sease testing instruments PALS 10(4)-approved interfaces to automated door inferiors of sease testing instruments PALS 10(4)-approved interfaces to bedissible galatim II system PALS 10(4)-approved interfaces to selected galatim II system PALS 10(| Laptop-based mobile donor registration module Source or recovered plasma management | | | |
| **Pushing provides standard HJ Interfaces?** Interfaces to automated ABD/Rh/antiblody screening instruments Interfaces to bedside patient ID system Interfaced to pedside patient ID system Interfaced to ped | Accounts receivable | • • • | • • | available via third party |
| Interfaces to automated ABO/RiVantibody screening instruments FIA 510PL-paproved interface to automated ABO/RiVantibody screening instruments FIA 510PL-paproved interface to bediction patient Daystem? Include the property of the property | • | | | |
| Interfaces to automated ABDR/Namtibody screening instruments PTDA 510(A)-approved interface to bedside patient ID system? P | System provides standard HL7 interface? Interfaces to automated donor infectious disease testing instruments | | uni-directional to Ortho, Immucor, Abbott, Olympus, DiaMed/Bio-Rad, Hitachi, CaridianBCT; bi-directional | yes (versions 2.1, 2.2, 2.3) — |
| validation templates/hest plan for safety validation templates/hest plan for safety critical control checks; validations evices available through PeopleMed (Wyndgate Technologies subsidiary) Complete blood bank ASP solution? Method of charging for ASP service Clitrix or remote desktop requires use of a VPN or other dedicated connection ASP information conduit Client controls supported from data center not operated by client How data center is operated by a third party (Hemo-Net) Information system interfaces Source code? User group? Source code? User group? Source code? Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) Tother-sales, marketing, administration, other company functions Wice a dash in lieu of an answer means company of that of answer question of the services available through PeopleMed (Wyndgate Technologies subsidiary) verifical control checks; validation services available through PeopleMed (Wyndgate Technologies subsidiary) verifical control checks; validation services available through PeopleMed (Wyndgate Technologies subsidiary) very fixed fee or transaction based Clitrix or remote desktop requires use of a VPN or other dedicated connection 3 very fixed fee or transaction based Clitrix or remote desktop requires use of a VPN or other dedicated connection 3 by a third party (Hemo-Net) by a (meets in person annually, via internet, teleconfere | Interfaces to automated ABO/Rh/antibody screening instruments FDA 510(k)-approved interface to bedside patient ID system? •HISs interfaced to bedside patient ID system | no | uni-directional to Ortho, Immucor, Olympus | no |
| Method of charging for ASP service Client software required Client software required Client contracts supported from data center not operated by client Oby a third party (Hemo-Net) Distinguishing features (supplied by vendor) Distinguishing features (supplied by vendor) or its vendor and a service as a service as a sin lieu of an answer means company did not answer question or company functions Note: a dash in lieu of an answer means company did not answer question or complants or complants of the service as do commitment to ensure quality ocusioner implementation and support experience fixed fee or transaction based Citrix or remote desktop requires use of a VPN or other dedicated connection 9 | Languages (other than English) offered on system Tools to help clients validate their systems | control checks; validation services available through | critical control checks; validation services available | critical control checks; validation services available |
| System provides indexed field in each test definition for LOINC code? Information system interfaces Haemonetics Haemonetics Haemonetics, Wyndgate Technologies McKesson, Cerner, Siemens, GE Healthcare, CPSI, Meditech, SCC Soft Computer, Sysmex, Sunquest, others User group? yes (meets in person annually; via Internet, teleconferences) Source code? User can modify screens? User group wes/ves User group wes/ves User group? User defined report writer/custom programming? yes/yes yes (meets in person annually; via Internet, teleconferences) escrow no no no no no no person annually; via Internet, teleconferences) escrow no no no no no escrow yes/yes wes/rect in person annually; via Internet, teleconferences) yes/yes yes/ye | Complete blood bank ASP solution? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client | fixed fee or transaction based Citrix or remote desktop requires use of a VPN or other dedicated connection | fixed fee or transaction based Citrix or remote desktop requires use of a VPN or other dedicated connection | fixed fee or transaction based Citrix or remote desktop requires use of a VPN or other dedicated connection |
| Information system interfaces Haemonetics Haemonetics, Wyndgate Technologies McKesson, Cerner, Siemens, GE Healthcare, CPSI, Meditech, SCC Soft Computer, Sysmex, Sunquest, others User group? Source code? User can modify screens? User can modify screens? User can modify screens? User defined report writer/custom programming? User-defined table-based rules User-defined table-based rules Open workflow with extensive user-defined table-based rules Open workflow with extensive user-defined table-based rules Service 360 commitment to ensure quality customer implementation and support experience Open workflow with extensive user-defined table-based rules Service 360 commitment to ensure quality customer implementation and support experience Open workflow with extensive user-defined table-based rules Service 360 commitment to ensure quality customer implementation and support experience | How data center is operated System provides indexed field in each test definition for LOINC code? | , , , | | |
| User group? Source code? User can modify screens? User can modify screens? User defined report writer/custom programming? User/defined report writer/custom programming? Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & customer implementation, other company functions *other=sales, marketing, administration, other company functions Note: a dash in lieu of an answer means company did not answer question or yes (meets in person annually; via Internet, teleconferences) escrow yes (meets in person annually; via Internet, teleconferences) escrow no no no *escrow yes/yes — — — — — — — — — — — — — — — — — — | Provide LOINC dictionary for each new installation? Information system interfaces | - | | McKesson, Cerner, Siemens, GE Healthcare, CPSI, |
| User can modify screens? User defined report writer/custom programming? ——————————————————————————————————— | User group? | · · · · · · · · · · · · · · · · · · · | | yes (meets in person annually; via Internet, teleconferences) |
| Cost for smallest & largest standalone HW/SW/install & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) • extensive safety checks throughout system open workflow with extensive user-defined table-based rules • open workflow with extensive user-defined table-based rules • Service 360 commitment to ensure quality customer implementation and support experience * Service 360 commitment to ensure quality customer implementation and support experience * Service 360 commitment to ensure quality customer implementation and support experience | User can modify screens? | | | |
| & training/monthly maintenance Cost for smallest & largest integrated HW/SW/install & training/monthly maintenance Distinguishing features (supplied by vendor) Distinguishing features (supplied by vendor) open workflow with extensive user-defined table-based rules Service 360 commitment to ensure quality customer implementation and support experience *Service 360 commitment to ensure quality customer implementation and support experience *Service 360 commitment to ensure quality customer implementation and support experience *Service 360 commitment to ensure quality customer implementation and support experience | User-defined report writer/custom programming? | yes/yes | yes/yes | yes/yes |
| open workflow with extensive user-defined table-based rules Service 360 commitment to ensure quality open workflow with extensive user-defined table-based rules Service 360 commitment to ensure quality customer implementation and support experience customer implementation and support experience | Cost for smallest & largest integrated HW/SW/install | _ _ | _ | _ _ |
| *other=sales, marketing, administration, other company functions customer implementation and support experience ocustomer implementation and support experience ocusioner implementation and support experience ocusioner implementation and support experience ocusioner implementation and support experience occursors occurs | Distinguishing features (supplied by vendor) | open workflow with extensive user-defined table-based rules | commitment to compliance • open workflow with extensive user-defined | commitment to compliance • open workflow with extensive user-defined |
| | *other=sales, marketing, administration, other company functions Note: a dash in lieu of an answer means company did not answer question or question is not applicable | | Service 360 commitment to ensure quality | Service 360 commitment to ensure quality |