# Lab-link software vendors take stock of tomorrow

What is the future of physician office-laboratory link software in an environment that is increasingly adopting electronic medical records and that continues to contend with system connectivity issues? CAP TODAY asked experts in the field for their opinions. Here's what they had to say.

#### CAP TODAY: Will widespread adoption of electronic medical record systems influence the use of physician office-laboratory linking software? If so, how must POLL software adapt to thrive?

Rob Atlas, CEO, Atlas Medical Software, Calabasas, Calif.: Delivering lab results to electronic



medical record systems is already a market requirement. Labs will soon need to take electronic orders from EMRs. POLL system vendors that have focused on the operational

Atlas

requirements of the lab will play an important role in this new paradigm.

Electronic medical records typi-

cally offer users order entry workflow, though support for lab ordering varies widely and can fall far short of what is required by the typical lab outreach program. Successful POLL vendors will balance what each EMR vendor supports and what the lab needs using an open platform that employs a broad spectrum of integration options. The POLL system will function as a flexible business rules engine that sits between the EMR and the lab's internal enterprise systems to enhance the order from the EMR in whatever form it is presented. This engine will offer medical necessity verification, test catalog management, test sharing and routing, and a host of other supplemental functions on demand to meet the lab's needs.

\* Cory P. Fishkin, president and

COO, CareEvolve.com, Elmwood Park, NJ: The short answer to this question is yes, widespread adoption of electronic medical record systems will influence the use of POLL software. However, the reality of it is that the reporting modules of most electronic medical record/electronic health record systems are notoriously weak. They are geared to office procedures, not laboratory results, especially with the increase in image-based and molecular testing.

Even as most EHRs try to strengthen their laboratory results reporting applications, they still have difficulty meeting the needs of the laboratory from an order entry



perspective. Many EHRs require an order prior to receiving a result. Standing orders, split requisitions for frozen sections, routing by payer, and ask-at-orderentry questions are still challenges for most EHRs.

POLL software vendors continue to play a vital role by assisting EHR vendors in enhancing their applications for the benefit of the physician, lab, and patient. Interface engines enhance the ability of POLL vendors to provide connectivity to EHRs for orders and results. By using POLL vendors to interface to EHRs, rather than asking a laboratory information system or hospital information system vendor to interface, hospital labs can obtain an interface with a smaller commitment of time and money while improving their outreach capabilities. In addition, advancing data analytics functionality will allow POLL software to be a vital component in health care today and into the future.

Ravi Sharma, CEO, 4Medica, Culver City, Calif.: POLLs prove that physicians will adopt a business model that uses an Internet model for delivery of clinical data. continued on page 14

from the standpoint of functionality and flexibility, in my view.

Another reason for this approach is user-friendliness. Our instruments, automation system, and middleware all have the same technologist user interface, so these different middleware applications all look and feel like one application to the user. This, too, contributes greatly to work efficiency at our institution.

Finally, our middleware has valuable features that are essential-in particular, critical value alerts and exceptional data event alerts. The former signals technologists that a critical value has occurred, with brightly colored popup screens. This system can then communicate the protocol to be followed, including contact information for the proper clinician to be notified. It even provides a log so the technologist can enter the time the message was delivered and the name of the person who received it. Timely critical values reporting is highly valued by JCAHO, as detailed in its National Patient Safety Goals. JCAHO doesn't specify middleware as the preferred response to that challenge, but it's hard to imagine a better one. As for exceptional data events, these occur so infrequently in labs that they rarely get handled well. Our middleware helps correct this problem by, again, providing management-defined protocols to be followed for each discrete event type. Thus, all problems get handled by technologists consistently-between shifts, on weekends, and even on holidays.

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- $\cdot$  National and Local Coverage Decisions, Medical Necessity Verification
- $\cdot$  ABN, requisition and manifest generation
- · And many more...





#### Middleware

I enjoyed your article, "Smooth Operator in the Lab: Middleware" (February 2006, page 1) but wanted to raise several points not addressed in the piece.

First, the article noted that middleware is offered by both instrument/automation vendors and "pure middleware" vendors, but didn't suggest which option was preferable. In my experience, middleware from instrumentation/automation vendors tends to be a better choice, primarily because satisfactory performance is guaranteed—that is, backed by an instrument/automation vendor warranty.

Keep in mind that the primary goal with middleware is to improve the efficiency of lab operations by adding functionality not readily available on legacy laboratory information systems. You will get far more efficiency-performancewise and financially-from your investment in instrumentation and automation if you take the approach we did at Oklahoma University Medical Center: a totally integrated solution provided by essentially one major vendor with an established track record in the field. The middleware we acquired was developed to conform to the specifications of our instruments and automation system and to optimize their performance. This approach provided an excellent fit

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### Lab-link software

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They also provide ease of access and ease of use, so physicians can focus on patients.

Even though electronic medical records have been around for a number of years, fewer than 17 percent of institutions have adopted them, according to government data. It is more likely that widespread adoption of EMRs is linked with connectivity to ancillary services, such as clinical labs and radiology. The majority of EMRs today have client/server architecture and were not designed to work with connectivity to ancillary services that physicians require. The current EMR architecture from most vendors is too restrictive from an interfacing perspective. EMR vendors need to improve connectivity to POLLs and information from ancillary services. This will make EMRs more useful to physicians and increase the rate at which they are adopted.

POLL software vendors need to expand their focus to more than just lab data to survive and grow. They need to consider such areas as radiology, medications, and inpatient data to meet the emerging needs of their clients. Some POLL vendors may even want to consider online EMRs as the future direction for their products.

Curt Johnson, vice president of sales and marketing, Orchard Software, Carmel, Ind.: POLL soft-



ware was primarily developed to provide an easy add-on, Web-based connectivity solution for legacy laboratory systems. Today, legacy systems increasingly are being replaced

with laboratory systems that provide remote Web access. However, the advancement of the electronic medical record changes the landscape because lab results are being delivered and stored in the EMR-

the new provider interface to all patient data. How electronic medical record systems influence the use of the POLL is up to the EMR companies and is based on the type of Internet-based solutions they offer.

The EMR system is the compiling and filing tool for all of a patient's medical and demographic information. It obviously makes the most sense for providers to have remote access to one system containing all information for a patient-from lab results, to prescriptions, to treatment notes.

As the number of EMR vendors offering remote, Web-based access solutions continues to grow, the decontinued on page 16

### Letters

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Our lab's goal at Oklahoma University Medical Center is a continuous, real-time flow of information from the vein of the patient to the brain of the physician. That means no batch processing to slow the testing process at any stage, from the physician order all the way to the real-time reporting of results. Indeed, we now process samples so smoothly and quickly that tests only rarely get ordered as stats. Without our instruments, automation, and middleware working in the well-orchestrated manner they do, that level of performance would be virtually impossible.

Kenneth E. Blick, PhD, ABCC, FACB Professor and Director of Clinical Chemistry Oklahoma University Medical Center Oklahoma City

#### Articles as ads

I usually enjoy the articles in CAP TODAY, finding them informative and useful. However, some of the articles are nothing more than advertisements for particular businesses. The March 2006 issue was particularly annoying. The article "Owning, Rather Than Buying, Reference Lab Services" was excessively positive about Warde Medical Laboratory, and at the end of the article a traditional advertisement for the same company was juxtaposed!

I would appreciate a disclosure

## You can't argue with success.



From left to right: Sara, Margaret, Dr. Almansour, Kristen, and Mary

"The Labtest.com system allows our office to operate more efficiently and the electronic order entry functionality significantly improves patient care."

> Ammar Almansour, MD Ammar Almansour PC Flint, Michigan

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Kristen Deloney, MT (ASCP) Laboratory Services Coordinator Hurley Laboratory Services Hurley Medical Center Flint, Michigan

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at the beginning of such articles that a financial connection exists between the writer, publication, and subject of the article.

> Frederick E. Dennstedt, MD Parrish Medical Center Titusville, Fla.

■ I was sorry to learn that you considered the article little more than an advertisement for Warde Medical Laboratory and that it appeared that the writer, CAP TODAY, and Warde had a financial connection. I can continued on page 16

### Lab-link software

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mand for traditional POLL solutions may decline. However, as health care networks become more complex and increasingly integrate disparate systems, POLL vendors may find a niche in linking these disparate systems and delivering data remotely.

#### CAP TODAY: What are the most common connectivity issues a lab faces when installing POLL software, and how does it avoid or overcome those issues?

**Curt Johnson** (Orchard Software): The first and most important issue a lab should address is the POLL interface to the laboratory information system. Each POLL and LIS combination interfaces differently, and it is important that the lab understand the data flow—what data flows and how it flows—and the limitations of each combination. The lab should ask about interface costs and timing and keep in mind that both the POLL and LIS vendor will have interface charges and schedules to consider.

After working through interfacing issues, consider your network topography because the lab portal selected will determine the specifications needed for running the POLL on your network. Many networking issues, both internal and external, surround the set-up, maintenance,

and performance of a POLL. The lab must consider such

factors as housing its Web site, bandwidth, Internet service providers, security, and secure sockets layer (SSL) certificates. Work closely with your Internet service provider and POLL vendor to determine what is best for your situation.

Finally, check that the end user has sufficient hardware and Internet access to ensure that the POLL application performs adequately.

Rob Atlas (Atlas Medical Software): To us, connectivity means seamless integration that achieves efficient workflow between the

POLL system and the LIS/anatomic pathology and

other systems, such as the billing system, hospital information system, and electronic medical record/patient management system. Each scenario presents its own complexities. Perhaps the most common connectivity issue labs face is a failure to identify these complexities and to seek comprehensive solutions that can deliver operational value. For example, labs can and should require that 90 percent or *continued on page 18* 

### Letters

See our physician office-lab links

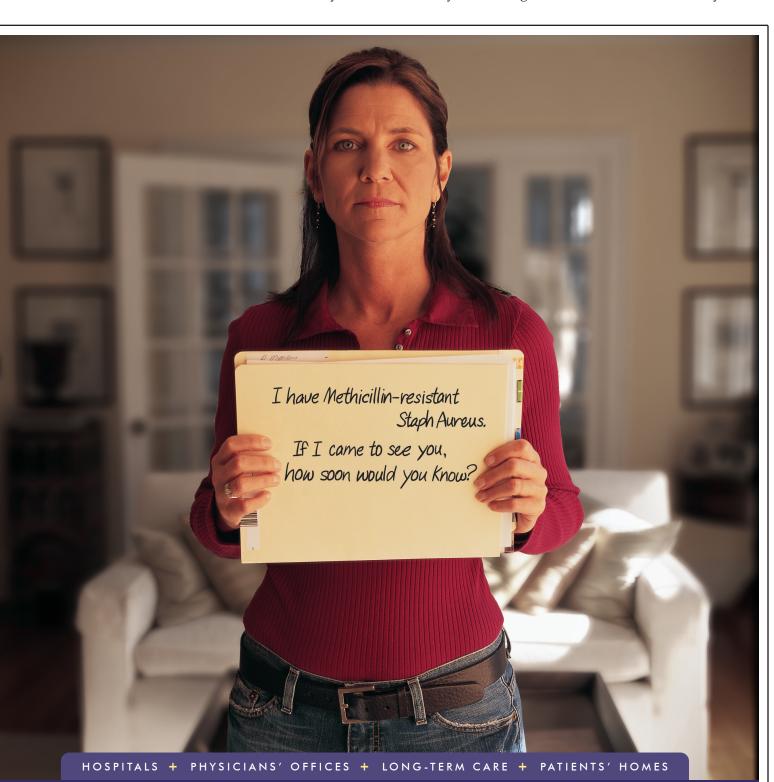
software profile, pages 20-35

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assure you no such financial connection exists in this case or in the case of any other CAP TODAY article. As editor, I assign a story to be written only if I think it will be of interest and useful to CAP TODAY's readers.

The co-tenancy concept was one that I felt met that criterion. I knew that the story of the Michigan Co-Tenancy Laboratory had been told in presentations at meetings and that the cost of reference laboratory tests is a problem for many labs. With cotenancy a solution to a problem for some, I thought that others might benefit from learning about it. It falls into the category of business models, solutions, and other innovations laboratories might want to read about—which we consider worthwhile editorial for our magazine.

MCL-Warde decided to purchase an advertisement to accompany the editorial coverage after I decided to publish the article and accompanying sidebar about Hurley Medical Center. I did not, I assure you, decide to publish an article about MCL-Warde because they decided to purchase an ad, though I realize it could appear that way because of where the ad was placed. Fact is, advertisers like to publish their ads in issues that contain editorial related to their tests and instruments (and some request placement near the related editorial, a request we may think is unwise but grant when we can). But in every case in CAP TO-DAY, it's the advertiser making its decision based on it being informed about related editorial, not the editor making her decision based on what company is buying ad space. *I* was pleased to hear that you generally do find our articles informative and useful. That is what I aim for with every story, though I clearly missed my target in this case with at least one reader (and possibly others). -Editor



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## The lowdown on choosing a lab-link vendor

#### Raymond D. Aller, MD

aboratories in the market for a physician office-lab link product must decide whether to use the POLL features offered by their laboratory information systems vendor or purchase POLL software from a third-party supplier and interface it to their LIS. At first blush, this would appear clear-cut. It must be easier and less expensive to go with your LIS vendor because you don't have to pay for an interface, and maintenance must be easier since you are dealing with the same architecture, right? Not necessarily.

Consider that many laboratories choose to contract for third-party POLL software, even though it may be more expensive, rather than select the product offered by their primary LIS vendor. Why? Because you often get what you pay for—a cheaper product may lack some of the functionality you need to serve your clients. An LIS or comprehensive hospital information systems vendor may not be able to give as much attention to the functionality of its POLL component as would a dedicated POLL vendor. Dedicated POLL vendors obviously focus all of their attention on POLL functionality and building robust interfaces not only to LISs but to many different physician office management systems.

Furthermore, some LIS vendors have purchased or licensed their POLL product (with a completely different software design) from a third party—such as another vendor or an organization that wrote its own system—so you would be building and maintaining architecture developed completely independently of the LIS.

But just as there are worthwhile third-party POLL products, there are excellent LIS vendor-based products, a number of which are included in the accompanying survey. To make sure you pick the vendor that best meets your needs, investigate whether your preferred vendor is investing the necessary resources and attention in producing and maintaining a leadingedge product. Speak with several laboratory users of the system you are considering. This will help you understand the strengths and weaknesses of the company. Remember, you're not only selecting a product, you're picking a long-term business partner.

Ask the vendors of the products you are evaluating to provide you with a complete user list. If they decline, are they trying to hide disgruntled users from you? Do they think you will sign up anyway? Are their corporate policies out of step with the clinical software field they are attempting to serve? Don't sign on the dotted line unless you believe the vendor is being completely honest and open.

Look at the vendor's history of products and service as well. Has the vendor offered POLL products in the past and dropped them? There is a difference between the evolution of one product through several generations versus a series of completely disparate products which are launched, inadequately supported, and then withdrawn and abandoned.

As you shop for POLL software, be aware that connections between POLLs and physician practice management systems provide multiple benefits, and they are also one of the most problematic aspects of such systems. The technical aspects of such connections are straightforward. But because some vendors of practice management systems will not assign any priority to this capability, such an interface cannot be made. This has led companies such as Hilgraeve and Boston Software to offer a variety of noninvasive interfacing techniques. These techniques make it possible to obtain the data from the physician office practice management system, or in some cases to send data to a physician's electronic medical record, without changing the programming of that system. Such techniques were used in the 1980s and 1990s to increase the functionality and accuracy of legacy LISs.

Keep in mind as well that too many "experts" in the laboratory informatics field focus on a particular technological tool rather than on the lab's larger business problems. For example, some experts have asserted that all connectivity between the physician's office practice and the host laboratory must be through Web page access. This overlooks the niche for thick-client-based systems, which continue to play a pivotal role in connectivity in certain environments.

The everything-must-be-Web-based dogma also misses the interesting direction being pursued by Mitem's Blue Iris Connect product. Rather than provide physician office staff with a Web-based tool for ordering and managing laboratory orders and results, the Connect approach depends entirely on order entry, result reporting, and other functionality within the electronic medical record system in the physician's office. Mitem then builds an interface, using Connect as the connectivity/interface engine tool, directly from the EMR to the host laboratory's LIS. Other vendors have provided similar functionality in the past, but Mitem is the first company we know of to position this as a distinct product and to do away with Web-page functionality in the doctor's office.

As you peruse the 20 POLL products from 19 vendors featured on the following survey pages, note that several of the vendors, including Axolotl, Fletcher Flora, Labtest, Orchard, and Sysmex, have moved away from dependence on a single proprietary Web browser to supporting a variety of products, such as Netscape and Firefox. We applaud them for doing so, as it will allow their laboratory clients to connect to physicians' offices in which technical support staff have chosen to avoid the security and other issues inherent in the commonly used browser.

Dr. Aller is director of bioterrorism preparedness and response for Los Angeles County Public Health Acute Communicable Diseases. He can be reached at raller@ladhs.org.

### Lab-link software

continued from page 16

more of their outreach orders be sent to the LIS electronically. HL7 provides a common format for achieving the basics, so now it is easier to synchronize test catalogs,

as you like it

medical oncology

insurance providers, account IDs, and physician records. However, most hospital outreach programs continue to manually register patients into their HIS and financial systems, propagating workflow bottlenecks and sources of error.

EMR connectivity presents similar

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the needs of physician

with the challenge of

simplifying billing and

charge accrual.

clinica

challenges. Clients can and should require their vendors to support a level of integration that delivers operational returns.

Cory P. Fishkin (CareEvolve.com): Most installations go quite smoothly, both during the interface/quality assurance phase as well as during training and implementation at physician offices and clinics. The issues that occasionally arise are generally related to HL7 interfaces and costs or time involved working with LIS vendors. For example, a hospital will discover that microbiology or pathology results are not being sent through an interface. On the order entry side, it is possible that an LIS cannot accept an inbound HL7 order message without a registration number from the HIS.

Vendors should hold detailed interface specification reviews with the hospital's interface group and may want to include the LIS and HIS vendor. This flushes out any questions upfront and makes for a smooth implementation down the road

\* Ravi Sharma (4Medica): The most common technical issues labs face in connecting to POLLs, or for

May 2006

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that matter, any solution, is the availability of HL7 interface capability. Another issue that sometimes arises is the requirement for pre-registration and a medical record number to be included on the requisition before it is submitted to the LIS. Some labs are increasing their level of automation for receiving and processing samples, which requires that physician offices generate container ID labels. However, LIS companies sometimes make it difficult for labs to interface this capability with POLLs. 

### May 2006

# Physician office-laboratory links software

20 / CAP TODAY 20 / CAP TODAY Physician office-laboratory links software Lois Coburn Sales@atlasdev.com Lois Coburn Sales@atlasdev.com COTO W A converted A defense of 0 defense		
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	Atlas Medical Software	Atlas Medical Software
Part 1 of 10	Lois Coburn sales@atlasdev.com 26679 W. Agoura Rd., Calabasas, CA 91302	Lois Coburn sales@atlasdev.com 26679 W. Agoura Rd., Calabasas, CA 91302
See accompanying articles on pages 12 and 18	818-340-7080 www.atlasmedical.com	818-340-7080 www.atlasmedical.com
Name of POLL software/system	Atlas LabWorks-thick client	Atlas LabWorks-thin client
First/most recent installation of software or system	1995/March 2006	1995/March 2006
No. of host or central labs using software clinically • No. of host labs that electronically transfer orders from PO* to LIS	70+† 70+†	70+† 70+†
No. of satellite locations installed/non-U.S. host installations	4,000+/†	4,000+/†
No. of contracts for host labs signed since March 1, 2005 Staff to develop-install & support host lab-install & support PO-other** in		— 29-28 (for host lab and P0)-23/20-24 (for host lab and P0)-16
entire firm/in POLL software division		
National commercial labs that use POLL package Average time to install, build files, train office staff in a typical PO	Spectrum, Sunrise, Spectra, PAML, Westcliff, Mayo Medical Labs 2 hours	Spectrum, Sunrise, Spectra, PAML, Westcliff, Mayo Medical L 2 hours
LIS, HIS, and other interfaces Software modifications or modules required on host LIS to interface?	Misys, Cerner, Meditech, Triple G, McKesson, CoPath, others ves (for HL7 orders and results)	Misys, Cerner, Meditech, Triple G, McKesson, CoPath, others yes (for HL7 orders and results)
POPMS*** used to transfer patient demographics or billing info. to POLL system	Medical Manager, VitalWorks, Clinscan, Meditech, Vision,	Medical Manager, VitalWorks, Clinscan, Meditech, Vision,
How demographics or billing information is transferred from POPMS at PO or clinic	Reynolds and Reynolds, NextGen, MediSoft, Misys, others one-time batch download/file transfer, daily update of demo-	Reynolds and Reynolds, NextGen, MediSoft, Misys, others one-time batch download/file transfer, more frequent automa
to POLL system	graphics, more frequent automatic update of all demographics	update of all demographics that have changed, POLL provides
External software tools or vendors used to transfer data from POPMS to POLL system	that have changed, others Atlas interface engine, others	patient ID to POPMS and POPMS replies in real-time, others Atlas interface engine, others
Test directory stored on PO system?	yes	no
How results are returned to PO Data interface standards supported	block of text, PDF, individually segmented fields ASTM 1238, HL7, XML, custom when required	block of text, PDF, individually segmented fields ASTM 1238, HL7, XML, custom when required
System supports LOINC for identifying lab result database elements?	yes	yes
System architecture or functionality	thick client, PC, whether or not connected to lab host	thick client, PC, while not connected to lab host; <sup>++</sup> standard W
Patient order and result database maintained on local PC?	yes	browser (Internet Explorer) no
Software displays results and allows orders to be entered in an offline mode?	yes	NO dial un modern to private phone No. (for results reporting, res
Online connections between PO and central or host system	no online connection (for order entry), dial-up modem to private phone No., leased line, VPN, public Internet connection	dial-up modem to private phone No. (for results reporting, res inquiry), leased line, VPN, public Internet connection
Complete ASP solution for POLL software?/Method of charging for ASP service	yes/transaction based, site based monthly, other models	yes/transaction based, site based monthly, other models
Features (listed as a percentage of live installs or whether or not it's available) • Order entry		
Medicare compliance checking using carrier-specific rules	<b>98%</b> †	98%†
<ul> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> <li>Local medical review policies can be viewed</li> </ul>	98%† 98%†	98%† 98%†
<ul> <li>Automatic routing of an order to different labs according to payer rules</li> </ul>	80%†	80%†
- Printing of lab's requisitions	98%†	98%†
<ul> <li>Printing of requisitions for other lab providers</li> <li>Duplicate order checking</li> </ul>	80%† 98%†	80%† 98%†
- Physician office-specific panels	80%†	80%†
Electronic order entry (from P0 to host)     - Transfer of patient demographics or insurance	98%† 98%†	98%† 98%†
- Automatic handling of scheduled or standing orders	98%†	98%†
- Automatic routing of orders to hospital or commercial labs depending on payer rules		80%†
<ul> <li>Bar-code collection label printing</li> <li>Two-dimensional bar code on printed requisition</li> </ul>	98% <sup>†</sup> 10% <sup>†</sup>	98%† 10%†
Software adapted for use in phlebotomy or collection stations	80%†	80%†
Result receipt     Stored as a block of text	98%†	98%†
- All items (result, reference range, units) stored as individual data elements	98%†	98%†
- Automatic parsing of report pages to extract results	5%†	5%†
<ul> <li>Inquiry mode that allows P0 to check status of specimens with host</li> <li>Reporting</li> </ul>	80%†	80%†
- In exact format received from host lab	50% <sup>†</sup>	50%†
- Cumulative - Integration of host and PO lab results	90%† 10%†	90%† 10%†
- Display of new results for patient and/or clinic	98%†	98% <sup>†</sup>
Remote access available to on-call physicians     Unattended printing of reports	98%† 90%†	98%† 90%†
Display current report with historical data on same screen	98%†	98%†
- Graph historical results with current results for trend analysis	98%†	98%†
<ul> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can compose and send secure electronic messages to patients</li> </ul>	80%† 4%†	80%† 4%†
User-defined rule-based system and alerts in PO module	20%†	20%†
Electronic transfer of data to another PO     E-mail/anonyted a-mail	5%† available but not installedt	5%t available but not installedt
<ul> <li>E-mail/encrypted e-mail</li> <li>Web reference or pointer to Web site</li> </ul>	available but not installed† 50%†	available but not installed† 50%†
- Fax	5%†	5%†
<ul> <li>PO orders supplies from host lab</li> <li>Specimen pickup or courier requests to host lab</li> </ul>	25%† installed†	25%† installed†
Financial     - Billing, collections, accounts receivable	_	not available
- Electronic claims transfer/interfaces to billing systems	not available/25%†	not available/25%†
Electronic medical record interface     Interfaces to PO lab instruments	50%† 2%†	50%† 2%†
Entry of PO lab results with edit checks	2%t	2%t
System priced on a cost-per-transaction basis?	no	no
One-time/initial charges Monthly/subscription fees	_	_
Basis for increasing fees as POs are added	tiered transaction, site-based capital, site-based/user-based	tiered transaction, site-based capital, site-based/user-based
	monthly models, hybrids tiered transaction, site-based capital, site-based/user-based	monthly models, hybrids tiered transaction, site-based capital, site-based/user-based monthly models, hybride
Situations where fees increase with additional services	mandala madala hubulut	monthly models hybride
	monthly models, hybrids	monthly models, hybrids <ul> <li>more than a decade of experience delivering millions of ele</li> </ul>
Situations where fees increase with additional services Distinguishing product features (supplied by vendor)	more than a decade of experience delivering millions of elec- tronic orders and results monthly	more than a decade of experience delivering millions of electronic orders and results monthly
	• more than a decade of experience delivering millions of elec-	• more than a decade of experience delivering millions of ele

# Physician office-laboratory links software

STENDER 10 STENDER 10	office-laboratory links	software
En-		-
Part 2 of 10	Axolotl Corp. Nicole Spencer nspencer@axolotl.com	CareEvolve, subsidiary of BioReference Laboratories Brian T. Jones bjones@careevolve.com
	800 El Camino Real West, Ste. 150	481B Edward Ross Drive
	Mountain View, CA 94040	Elmwood Park, NJ 07407
See accompanying articles on pages 12 and 18	530-269-1806 www.axolotl.com	360-679-8862 www.careevolve.com
Name of POLL software/system	Elysium	LabEvolve
First/most recent installation of software or system No. of host or central labs using software clinically	1998/2004 20	1999/March 2006 26
<ul> <li>No. of host labs that electronically transfer orders from PO* to LIS</li> </ul>	7	22
No. of satellite locations installed/non-U.S. host installations	4,000+/	2,000+/0
No. of contracts for host labs signed since March 1, 2005	3	9
Staff to develop-install & support host lab-install & support PO-other** in entire firm/in POLL software division	12-13-n/a/4-6-n/a	25-6-25-900/6-4-1-5
National commercial labs that use POLL package		BioReference Laboratories, Renal Care Group, RenaLab, othe
Average time to install, build files, train office staff in a typical PO	1.5 hours	< 1 hour
.IS, HIS, and other interfaces	Siemens, McKesson, Cerner, Misys, others	GE, Cerner, CoPath, CPSI, McKesson, Meditech, Misys, Sieme SCC, homegrown systems, others
Software modifications or modules required on host LIS to interface?	no	yes (results export module for HL7 results reporting, import
POPMS*** used to transfer patient demographics or billing info. to POLL system	Medical Manager, Athena Health, Epic	order-entry module for HL7 orders) A4 Health Systems, GE, IDX, Lytec, Medic, Medical Manager,
		MediSoft, Misys, others
How demographics or billing information is transferred from POPMS at PO or clinic	daily update of demographics, more frequent automatic update	one-time batch download/file transfer, daily update of demograph
to POLL system	of all demographics that have changed, POLL provides patient ID to POPMS and POPMS replies in real-time	more frequent update of all demographics that have changed, PO provides patient ID to POPMS and POPMS replies in real-time, oth
External software tools or vendors used to transfer data from POPMS to POLL system	HL7, Axoloti software	Hilgraeve, Boston Software
Fest directory stored on PO system?	no	yes (thick client only)
How results are returned to PO	individually segmented fields	block of text, PDF, individually segmented fields
Data interface standards supported System supports LOINC for identifying lab result database elements?	HL7 yes	ASTM 1238, HL7, ANSI X12, XML, custom when required yes
		-
System architecture or functionality	standard Web browsers	thick client, PC, while not connected to lab host; standard W browser (Internet Explorer)
Patient order and result database maintained on local PC? • Software displays results and allows orders to be entered in an offline mode?	no	no
Diline connections between PO and central or host system	no dial-up modem to private phone No., leased line, VPN, public	no public Internet connection
	Internet connection	
Complete ASP solution for POLL software?/Method of charging for ASP service	yes/fixed monthly fee	yes/charge lab physician license fees based on No. of physic
		who use system
<ul> <li>Features (listed as a percentage of live installs or whether or not it's available)</li> <li>Order entry</li> </ul>		
- Medicare compliance checking using carrier-specific rules	installed	85%
- Advanced beneficiary notice printed if medical necessity criteria not met	installed	85%
<ul> <li>Local medical review policies can be viewed</li> <li>Automatic routing of an order to different labs according to payer rules</li> </ul>	installed installed	85% installed
- Printing of lab's requisitions	installed	85%
- Printing of requisitions for other lab providers	installed	installed
- Duplicate order checking - Physician office-specific panels	installed installed	85% installed
Electronic order entry (from PO to host)	installed	65%
- Transfer of patient demographics or insurance	installed	65%
- Automatic handling of scheduled or standing orders	not available	85%
<ul> <li>Automatic routing of orders to hospital or commercial labs depending on payer rules</li> <li>Bar-code collection label printing</li> </ul>	not available available but not installed	installed 85%
Two-dimensional bar code on printed requisition	available but not installed	31%
Software adapted for use in phlebotomy or collection stations	available but not installed	85%
Result receipt     Starsel on a block of tout	not quallella	160/
<ul> <li>Stored as a block of text</li> <li>All items (result, reference range, units) stored as individual data elements</li> </ul>	not available installed	15% 95%
- Automatic parsing of report pages to extract results	not available	5%
- Inquiry mode that allows PO to check status of specimens with host	not available	installed
<ul> <li>Reporting</li> <li>In exact format received from host lab</li> </ul>	not available	100%
- Cumulative	installed	100%
- Integration of host and PO lab results	installed	available but not installed
<ul> <li>Display of new results for patient and/or clinic</li> <li>Remote access available to on-call physicians</li> </ul>	installed installed	100% 100%
- Remote access available to on-call physicians - Unattended printing of reports	installed	100%
- Display current report with historical data on same screen	installed	not available
- Graph historical results with current results for trend analysis	installed	100%
<ul> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can compose and send secure electronic messages to patients</li> </ul>	installed available but not installed	100% 100%
<ul> <li>Provident can compose and seril secure electronic messages to patients</li> <li>User-defined rule-based system and alerts in PO module</li> </ul>	installed	100%
Electronic transfer of data to another PO	installed	100%
- E-mail/encrypted e-mail	not available/installed	not available/installed
- Web reference or pointer to Web site - Fax	not available installed	installed not available
PO orders supplies from host lab	available but not installed	10%
- Specimen pickup or courier requests to host lab Financial	not available	available in Dec. 2006
- Billing, collections, accounts receivable	available but not installed	not available
- Electronic claims transfer/interfaces to billing systems	available but not installed	not available/30%
<ul> <li>Electronic medical record interface</li> <li>Interfaces to PO lab instruments</li> </ul>	installed not available	80% available but not installed
• Entry of PO lab results with edit checks	installed	available in Dec. 2006
System priced on a cost-per-transaction basis?	no	no Astri April (hanned an Na of interferen verwanted)
Dne-time/initial charges Nonthly/subscription fees	_	~\$45k-\$85k (based on No. of interfaces requested) ~\$2.5k-\$4.5k (based on size of outreach program)
Basis for increasing fees as POs are added	based on No. of physicians of record	~\$2.5k-\$4.5k (based on size of outreach program) based on No. of physicians of record
Situations where fees increase with additional services	n/a	_
Distinguishing product features (supplied by vendor)	national standards	• owned by a lab that uses the system on its own customers

### May 2006

## Physician office-laboratory links software

STENDER 24 / CAP TODAY Part 3 of 10	office-laboratory links	software
	Cerner Corp.	eTeleNext
Part 3 of 10	Jeff Sluder jeff.sluder@cerner.com	Joseph Nollar sales@etelenext.com
	2800 Rockcreek Parkway Kansas City, M0 64117	28570 Marguerite Parkway Mission Viejo, CA 92692
See accompanying articles on pages 12 and 18	816-201-7072 www.cerner.com	949-365-0952 www.etelenext.com
Name of POLL software/system	Cerner Millennium ePathLink	eTeleNext
First/most recent installation of software or system	1997/—	1998/Nov. 2005
No. of host or central labs using software clinically	_	27
<ul> <li>No. of host labs that electronically transfer orders from PO* to LIS</li> <li>No. of satellite locations installed/non-U.S. host installations</li> </ul>	_	18 350+/0
No. of contracts for host labs signed since March 1, 2005	_	3
Staff to develop-install & support host lab-install & support PO-other** in	825+-1,925+-800+-1,300+/5+-6+-0 <sup>†</sup> -1+	6-4 (for host lab and PO)-5/6-4 (for host lab and PO)-5
entire firm/in POLL software division National commercial labs that use POLL package	_	_
Average time to install, build files, train office staff in a typical PO	~60 hours	1 hour
LIS, HIS, and other interfaces	Cerner, others	Cortex, GE, Misys, Meditech, Cerner
	-	
Software modifications or modules required on host LIS to interface? POPMS*** used to transfer patient demographics or billing info. to POLL system	no 	no Medical Manager, MediSoft
How demographics or billing information is transferred from POPMS at PO or clinic	daily update of demographics, POLL provides patient ID to	one-time batch download/file transfer, daily update of demo-
to POLL system	POPMS and POPMS replies in real-time	graphics, more frequent automatic update of all demographic
		that have changed, POLL provides patient ID to POPMS and POPMS replies in real-time
External software tools or vendors used to transfer data from POPMS to POLL system	Hilgraeve	eTeleNext CMQ, BizTalk, Hilgraeve
Test directory stored on PO system?	yes	no
How results are returned to PO	block of text, individually segmented fields	block of text, PDF, individually segmented fields
Data interface standards supported	HL7	HL7, XML, custom when required
System supports LOINC for identifying lab result database elements?	no	yes
System architecture or functionality	standard Web browser	thin proprietary client; standard Web browser (Internet Explo
Patient order and result database maintained on local PC?	no	no
<ul> <li>Software displays results and allows orders to be entered in an offline mode?</li> </ul>	-	-
Online connections between PO and central or host system	dial-up modem to private phone No., public Internet connection	dial-up modem to private phone No., VPN, public Internet cor nection (dial-up sufficient)
Complete ASP solution for POLL software?/Method of charging for ASP service	yes/—	yes/fixed monthly fee
<ul> <li>Printing of lab's requisitions</li> <li>Printing of requisitions for other lab providers</li> <li>Duplicate order checking</li> <li>Physician office-specific panels</li> <li>Electronic order entry (from P0 to host)</li> <li>Transfer of patient demographics or insurance</li> <li>Automatic handling of scheduled or standing orders</li> <li>Automatic routing of orders to hospital or commercial labs depending on payer rules</li> <li>Bar-code collection label printing</li> <li>Two-dimensional bar code on printed requisition</li> <li>Software adapted for use in phlebotomy or collection stations</li> <li>Result receipt</li> <li>Stored as a block of text</li> <li>All items (result, reference range, units) stored as individual data elements</li> <li>Automatic parsing of report pages to extract results</li> <li>Inquiry mode that allows P0 to check status of specimens with host</li> <li>Reporting</li> <li>In exact format received from host lab</li> <li>Cumulative</li> <li>Insplay of new results for patient and/or clinic</li> <li>Remote access available to on-call physicians</li> <li>Unattended printing of reports</li> <li>Display or new results for patient and/or clinic</li> <li>Remote access available to on-call physicians</li> <li>Unattended printing of reports</li> <li>Display current report with historical data on same screen</li> <li>Graph historical results with current results for trend analysis</li> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can electronically sign reports not comfirm review</li> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can compose and send secure electronic messages to patients</li> <li>User-defined rule-based system and alerts in P0 module</li> <li>Electronic transfer of data to another P0 <ul> <li>F-mail/encrypted e-mail</li> <li>We reference or pointer to Web site</li> <li>Fax</li> </ul> </li> <li>PO orders supplies from host lab <ul> <l< th=""><th>100% not available 75% 100% 50% 50% installed not available 100% not available installed 30% 70% not available 100% 100% 100% installed not available installed not available not available not available not available not available not available not available not available</th><th>90% 80% 85% 90% 80% 80% 80% 80% 90% 90% 90% 90% 90% 90% 90% 90% 100% 90% 100% 10</th></l<></ul></li></ul>	100% not available 75% 100% 50% 50% installed not available 100% not available installed 30% 70% not available 100% 100% 100% installed not available installed not available not available not available not available not available not available not available not available	90% 80% 85% 90% 80% 80% 80% 80% 90% 90% 90% 90% 90% 90% 90% 90% 100% 90% 100% 10
<ul> <li>Specimen pickup or courier requests to host lab</li> <li>Financial</li> </ul>	not available	avanable but not instance
- Billing, collections, accounts receivable	installed	not available
Electronic claims transfer/interfaces to billing systems     Electronic medical record interface	not available/installed 100%	not available/25% 25%
Interfaces to PO lab instruments     Entry of PO lab results with edit checks	2% not available	35% 100%
	nor afallanic	100 /0
System priced on a cost-per-transaction basis?	_	no ¢30k_\$60k
One-time/initial charges Monthly/subscription fees	_	\$30k-\$60k \$2.5k-\$15k
Basis for increasing fees as POs are added	-	no increase—flat fee per host lab
Situations where fees increase with additional services	_	if order entry is added to result transmission (or vice versa)
Distinguishing product features (supplied by vendor) 'PO=physician's office	<ul> <li>provide a comprehensive and totally integrated system</li> <li>26 years in LIS industry under direction of three founders</li> <li>proven track record of innovation and development within the</li> </ul>	<ul> <li>product branded for the client</li> <li>integrated with eTeleNext LIS</li> <li>ASP or lab hosted</li> </ul>

# Physician office-laboratory links software

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besine spectra programme and spectra program	Part 4 of 10	Brian Mattson bmattson@labpak.com	Melody Rassouli melody@4medica.com
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kanger fan kank huid fan, yaar adar e af a ba paie 19 in 2 hars in	National commercial labs that use POLL package	none	Stanford University, Detroit Medical Center, CPL, Spectra, Q LabCorp. Lab One
sidear on media regulation is automatical base in the Use in the Series Markas. Method series with the Series Markas. Method series W	Average time to install, build files, train office staff in a typical PO	1–2 hours	
PMPMS <sup>man</sup> and is transfer plants in its instants         PMPL system         Relation is transfer and its instants         Relatin is transfer and its instants         Rel		Cerner, Fletcher Flora, Siemens, McKesson	
base decay problem and the structure from POPRe 110° and a structure from POPRE 100° and a str			
By PAL sprinn         appakes			Lytec, MediSoft, Micromed, A4, Millbrook, Practice Point Manag
<ul> <li>Backens Jankane Nature and some draken fraktige med and some PRME to PQLL system</li> <li>Rechter Flare, Nirfall, Schelysand, afters</li> <li>Pipel and some and some and some and some PRME to PQLL system</li> <li>Rechter Flare, Nirfall, Schelysand, afters</li> <li>Pipel and some and some</li></ul>			one-time batch download/file transfer, daily update of demo
Calculation         Problem Served Serve	to PULL system	graphics	
Eduction from the transfer data from POMS to POLL softPRIchas (Fice, BLTC),			
Note reacting of products supportedNotificating supported fields products supported products supported <b< td=""><td>External software tools or vendors used to transfer data from POPMS to POLL system</td><td>Fletcher Flora, BizTalk, Seebeyond, others</td><td>Hilgraeve, 4Medica proprietary software tool</td></b<>	External software tools or vendors used to transfer data from POPMS to POLL system	Fletcher Flora, BizTalk, Seebeyond, others	Hilgraeve, 4Medica proprietary software tool
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Patient and a number of the base short of of th	System architecture or functionality	standard Web browsers—all	thick client, PC, whether or not connected to lab host; stand
<ul> <li>s- store studies and subjest results and subjest results and subjest results inquiry, public interaction subjects of the stream o</li></ul>	Patient order and result database maintained on local DC2	80	
IDSU/case moder required, LAUAMA         teads this, VPA, pablic internet connection           Complete ADS solution for POLL setting in prox 3P services         setTined internet setting setting complexes whether or not it's availability           Forder oriny         setTined internet setting setting complexes perifies in the setting internet cont it's availability         setTined internet setting internet i			—
Advance         yes/Tood monthly fee         yes/Tood monthly fee         yes/Tood           Frainers (and a spreentage of live installs or whether or not it's available)         statule         85%           - Advanced teenficity onlog carrier-specific rules         installed         85%           - Advanced teenficity onlog carrier-specific rules         installed         85%           - Advanced teenficity onlog carrier -specific rules         installed         85%           - Advanced teenficity onlog carrier -specific rules         installed         85%           - Advanced teenficity onlog carrier -specific rules         installed         85%           - Advanced teenficity onlog rules         installed         85%           - Advanced teenficity onlog rules         installed         85%           - Advanced teenficity onlog rules         installed         85%           - Projectity off rules on pointers         installed         85%           - Projectity off rules in pointers         installed         85%           - Projectity off rules in pointers         installed         95%	Online connections between PO and central or host system		no online connection, dial-up modem to private phone No.,
Additional control in the installs or whether or not it's available)  Order entry		(DSL/Cable modem required), LAN/WAN	leased line, VPN, public internet connection
<ul> <li>eder anig</li> <li>eder anig</li> <li>Modian consistion checking using carrier-specific rules</li> <li>installed</li> <li>Advanced beneficiary notice private if medical necessity oriteria not met</li> <li>installed</li> <li>Cacla medical review policies can be viewed</li> <li>installed</li> <li>Cacla medical review policies and to viewed</li> <li>installed</li> <li>Cacla medical review policies and to viewed</li> <li>installed</li> <li>Cacla medical review policies and to viewed</li> <li>installed</li> <li>Cacla medical review policies and the viewed</li> <li>installed</li> <li>installed&lt;</li></ul>	Complete ASP solution for POLL software?/Method of charging for ASP service	yes/fixed monthly fee	yes/fixed monthly fee or transaction based
- Median compliance duesking using cardrer-specific rulesistalied65%- Advanced netwing policies can be viewedinstalied65%- Load native policies can be viewedinstalied65%- Advancet netwing of an order to different bab according to pay endinstalied65%- Printing of rangeta failmeninstalied65%- Printing of rangeta failmen65%65%- Advancet handing of schedul of acting orders1stalied65%- Advancet handing of schedul of acting orders1stalied65%- Advancet handing of orders to hospital ac commend labe dending on pay ends1stalied65%- Advancet handing of orders to hospital ac commend labe dending on pay ends1stalied65%- Advancet handing of orders to hospital ac commend labe dending1stalied65%- Advancet handing of orders to hospital ac commend labe dending1stalied65%- Advancet handing of orders to hospital ac commend labe dending1stalied65%- Advancet handing of orders to hospital ac commend labe dending1stalied65%- Advancet handing of orders to hospital ac commend labe dending1stalied65%- Advancet handing of orders to hospital1stalied65%- Advancet handing of orders to hospital1stalied <td></td> <td></td> <td></td>			
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- Duplicate order checkinginclude6%;9 Physician off-expositing and ordersinclude6%;1 Finder order entry (from P0 to host)include7%;1 Finder order entry (from P0 to host)include6%;- Automatic numbling of schoulde or standing ordersinclude6%;- Automatic numbling of contex to host part of the schould or standing orders6%;6%;- Automatic numbling of orders to host part of communel labe depending on paysinclude6%;- Bar-code collection label printinginclude20%;6%;- Condinational for accide on printide requisitioninclude20%;6%;- Condinational for order on printide requisitioninclude20%;6%;- Automatic requisitioninclude20%;6%;6%;- Automatic requisitioninclude20%;6%;6%;- Automatic requisitioninclude100%;6%;6%;- Automatic requisitioninclude100%;6%;6%;- Automatic requisitioninclude100%;6%;6%;- Automatic requisition or host and P0 lab requisitioninclude100%;100%;- Instract formatic requisition and or clinic requisitioninclude100%;100%;- Instract formatic requisition and critic reguisitioninclude100%;100%;- Instract formatic reguisition and critic reguisitioninclude100%;100%;- Instract formatic reguisition and critic reguisitioninclude100%;100%; <td< td=""><td></td><td></td><td></td></td<>			
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- All inser (result, reference range, units) stored as individual data elements - Automatic parsing of report pages to extract results - Inguity mode that allows P0 to check status of specimens with host Installed - In exact format received from host lab - Installed - Comulative - Installed - Outoplay of host and P0 lab results - Installed - Outoplay of new results for patient and/or clinic - Installed - Outoplay of reports - Outoplay of reports - Installed - Installed - Installed - Outoplay of reports - Installed - Installed - Installed - Outoplay installed - Outoplay of reports - Installed - Insta			
- Automatic parsing of report pages to extract results of specimens with host installed installed 100% - 10		100%	
- Inquiry mode that allows PO to check status of specimens with hast     installed     100%       Peporting     -     -       - In exact format received from host lab     installed     90%       - Cumulative     100%     installed     90%       - Inlegration of host and PO lab results     100%     installed     100%       - Display of new results for patient and/or clinic     installed     100%     100%       - Inderation of host and PO lab results     installed     100%     100%       - Inderation of reports     100%     100%     100%       - Inderation of reports     100%     100%     100%       - Unatheded printing of reports     installed     100%     100%       - Unatheded system and alerts in PO module     installed     100%     100%       - Evendine creaced system and alerts in PO module     installed     35%     100%       - Evendine creaced system and alerts in PO module     installed     10%     100%       - Evendine creaced system and alerts in PO module     installed     10%     100%       - Evendine creaced system and alerts in PO module     installed     10%     100%       - Evention creaced system and alerts in PO module     installed     10%     10%       - Evention creace system and alerts in PO module     installed     <			
<ul> <li>- in exait format received from host lab</li> <li>- in exait format received from host lab</li> <li>- comulative</li> <li>- comulative</li> <li>- comulative</li> <li>- comulative</li> <li>- installed</li> <li></li></ul>	- Inquiry mode that allows PO to check status of specimens with host	installed	
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- Remote access available to on-call physiciansinstalled100%- Unatended printing of reports100%100%- Unatended printing of reports100%100%- Bisplay current report with historical data on same screeninstalled100%- Graph historical results with current results for trend analysisinstalled100%- Physician can electronically sign reports to confirm review100%- Physician can compose and send secure electronic messages to patientsinstalledavailable but not installed- Bedrinde rule-based system and alerts in PO moduleinstalled33%- Bedrinde rule-based system and alerts in PO module Faxi Faxi Fax Fax Fax Forders supplies from host labinstalledinstalled10%- Faxi Fax Fax<	- Integration of host and PO lab results	100%	installed
- Unatlended printing of reports100%100%- Display current reportsinstalled100%- Display current report with historical data on same screeninstalled100%- Graph historical results with ducrrent results for trend analysisinstalled100%• Physician can electronical rysits with ducrrent results for trend analysisinstalledavailable but not installed• Physician can electronically sign reports to confirm review-100% (using 4Medica forwarding module)• Physician can compose and send secure electronic messages to patientsinstalled35%• Electronic transfer of data to another PO-100% (using 4Medica forwarding module)• E-mail/encrypted e-mail• Web reference or pointer to Web site• PO orders supplies from host labinstalled10%-• Specime pickup or courier requests to host labinstalled10%-• Financial• Electronic claims transfer/Interfaces to billing systemsnot available/installednot available/60%• Electronic claims transfer/Interfaces to billing systems• Electronic claims transfer/Interfaces• Electronic claims transfer/Interfacesinstalledinstalled-• Interfaces to Pol lab instrumentsinstalledinstalled-• Electronic claims transfer/Interfacesyes• Electronic claims transfer/Interfacesyes			
- Display current report with historical data on same screeninstalled100%- Graph historical results with current results for trend analysisinstalled100%- Orapital historical results with current results for trend analysisinstalled100%> Physician can compose and send secure electronic messages to patientsinstalledavailable but not installed> User-defined rule-based system and alerts in PO module100% (using 4Medica forwarding module)- E-mail/encrypted e-mail Web reference or pointer to Web site Fax Forders supplies from host labinstalled10%- Specimen pickup or courier requests to host labinstalled10%- Financial Billing, collections, accounts receivableinstalledinstalled- Interaces to Pol lab instrumentsinstalledinstalled- Pol lab results with edit checks Billing, collections, accounts receivablenot available/installedinstalled- Financial Billing, collections, accounts receivableinstalledinstalled- Financial Billing, collections, accounts receivableinstalledinstalled- Interaces to Pol lab instrumentsinstalledinstalled Steptem pickup or core interfaceinstalledinstalled- Interfaces to Pol lab instrumentsinstalledinsta			
- Graph historical results with current results for trend analysisinstalled100%• Physician can electronically sign reports to confirm review-00%• Physician can compose and send secure electronic messages to patientsinstalledavailable but not installed• User-defined rule-based system and alerts in PO moduleinstalled35%• Electronic transfer of data to another PO-000% (using 4Medica forwarding module)• Electronic transfer of data to another PO• Electronic transfer of data to another PO• Electronic transfer of data to another PO• Poly cience or pointer to Web site• Poly cience or pointer to Web site• Po orders supplies from host labinstalled10%• Po orders supplies from host labinstalled10%• Financial• Electronic claims transfer/interfaces to billing systemsnot available• Electronic claims transfer/interfaces to billing systemsnot available/installed• Electronic claims transfer/interfacesinstalledavailable/60%• Electronic data cord interfaceinstalledinstalled• Electronic claims transfer/interfacesinstalledavailable/formatiled• Electronic data cord interfaceinstalledavailable/formatiled• Electronic claims transfer/interfacesinstalledavailable/formatiled• Electronic claims transfer/interfacesinstalledavailable/formatiled• Electronic claims transfer/interfaces <td< td=""><td></td><td></td><td></td></td<>			
<ul> <li>Physician can compose and send secure electronic messages to patients installed installed installed 35%</li> <li>User-defined rule-based system and alerts in PO module installed 35%</li> <li>Electronic transfer of data to another PO - 00% (using 4Medica forwarding module)</li> <li>E-mail/encrypted e-mail - 0</li> <li>F-mail/encrypted e-mail - 0</li> <li>Web reference or pointer to Web site - 0</li> <li>Fax - 0</li> <li>PO orders supplies from host lab - 0</li> <li>Specimen pickup or courier requests to host lab installed installed 10% (using 4Medica forwarding module)</li> <li>Specimen pickup or courier requests to host lab installed 10%</li> <li>Specimen pickup or courier requests to host lab installed 10%</li> <li>Specimen pickup or courier requests to bost lab installed 10%</li> <li>Specimen pickup or courier requests to bost lab installed 10%</li> <li>Electronic claims transfer/interfaces to billing systems on available/installed 10%</li> <li>Electronic redical record interface</li> <li>Electronic netical record interface</li> <li>Interfaces to PO lab instruments installed 10%</li> <li>Interfaces to PO lab instruments 10%</li> <li>System priced on a cost-per-transaction basis? No</li> <li>No</li> <li>Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes</li></ul>	- Graph historical results with current results for trend analysis		100%
User-defined rule-based system and alerts in PO module     installed     installe			
• Electronic transfer of data to another P0			
- Web reference or pointer to Web site		_	
- Fax• PO orders supplies from host labinstalled10%• Specimen pickup or courier requests to host labinstalledinstalled• Financial• Billing, collections, accounts receivablenot availablenot available• Electronic claims transfer/interfaces to billing systemsnot available/installednot available/60%• Electronic medical record interfaceinstalledinstalled• Interfaces to PO lab instrumentsinstalledavailable but not installed• Interfaces to PO lab instrumentsinstalledavailable• Electronic claims transfer/interfacesnoyes• Electronic nedical record interfaceinstalledinstalled• Interfaces to PO lab instrumentsinstalledavailable but not installed• Entry of PO lab results with edit checksnoyes• Done-time/initial chargesyesvariableWonthly/subscription feesyesvariableBasis for increasing fees as POs are addedbased on No. of practices/groupsbased on transaction volumesBittations where fees increase with additional servicesno increase• increase• installen volumesDistinguishing product features (supplied by vendor)• 100 percent Web based—thin client• intuitive, insightful, innovative		-	<b>Z</b>
• P0 orders supplies from host labinstalled10%- Specimen pickup or courier requests to host labinstalledinstalled- Specimen pickup or courier requests to host labinstalledinstalled- Billing, collections, accounts receivablenot availablenot available- Billing, collections, accounts receivablenot available/installednot available/60%- Electronic claims transfer/interfaces to billing systemsnot available/installednot available/60%• Electronic medical record interfaceinstalledinstalled• Interfaces to PO lab instrumentsinstalledavailable but not installed• Entry of PO lab results with edit checks—System priced on a cost-per-transaction basis?noyesOne-time/initial chargesyesvariableWonthly/subscription feesyesvariableBasis for increasing fees as POs are addedbased on No. of practices/groupsbased on transaction volumesbittinguishing product features (supplied by vendor)+100 percent Web based—thin client• intuitive, insightful, innovative		_	
Financial     Billing, collections, accounts receivable     not available     not available     not available/installed     not available/installed     not available/for%     installed     inst	<ul> <li>PO orders supplies from host lab</li> </ul>		
<ul> <li>Billing, collections, accounts receivable</li> <li>Billing, collections, accounts receivable</li> <li>Interfaces to billing systems</li> <li>Interfaces to PO lab instruments</li> <li>Interfaces to PO lab instruments</li> <li>Interfaces to PO lab instruments</li> <li>Interfaces to PO lab results with edit checks</li> <li>Entry of PO lab results with edit checks</li> <li>System priced on a cost-per-transaction basis?</li> <li>No</li> <li>yes</li> <li>variable</li> <li>yes</li> <li>variable</li> <li>yes</li> <li>variable</li> <li>based on No. of practices/groups</li> <li>based on transaction volumes</li> <li>transaction prices reduced with higher volumes</li> <li>transaction prices reduced with higher volumes</li> <li>transaction prices reduced with higher volumes</li> </ul>		installed	installed
<ul> <li>Electronic medical record interface</li> <li>Interfaces to PO lab instruments</li> <li>Interfaces to PO lab instruments</li> <li>Entry of PO lab results with edit checks</li> <li>System priced on a cost-per-transaction basis?</li> <li>Doe-time/initial charges</li> <li>Monthly/subscription fees</li> <li>Basis for increasing fees as POs are added</li> <li>Based on No. of practices/groups</li> <li>based on No. of practices/groups</li> <li>no increase</li> <li>transaction prices reduced with higher volumes</li> <li>transaction prices reduced with higher volumes</li> <li>transaction prices reduced with higher volumes</li> </ul>	- Billing, collections, accounts receivable		
<ul> <li>Interfaces to PO lab instruments</li> <li>Entry of PO lab results with edit checks</li> <li>System priced on a cost-per-transaction basis?</li> <li>One-time/initial charges</li> <li>Monthly/subscription fees</li> <li>Basis for increasing fees as POs are added</li> <li>Situations where fees increase with additional services</li> <li>Distinguishing product features (supplied by vendor)</li> <li>100 percent Web based—thin client</li> <li>available but not installed installed installed installed</li> <li>available but not installed installed installed</li> <li>available but not installed</li> <li>based on to or practices/groups</li> <li>based on transaction volumes</li> <li>transaction prices reduced with higher volumes</li> <li>transaction prices reduced with higher volumes<td>• •</td><td></td><td></td></li></ul>	• •		
System priced on a cost-per-transaction basis?       no       yes         One-time/initial charges       yes       variable         Monthly/subscription fees       yes       variable         Basis for increasing fees as POs are added       based on No. of practices/groups       based on transaction volumes         Situations where fees increase with additional services       no increase       transaction prices reduced with higher volumes         Distinguishing product features (supplied by vendor)       • 100 percent Web based—thin client       • intuitive, insightful, innovative			
One-time/initial charges       yes       variable         Monthly/subscription fees       yes       variable         Basis for increasing fees as POs are added       based on No. of practices/groups       based on transaction volumes         Situations where fees increase with additional services       no increase       transaction prices reduced with higher volumes         Distinguishing product features (supplied by vendor)       • 100 percent Web based—thin client       • intuitive, insightful, innovative	Entry of PO lab results with edit checks	-	installed
Monthly/subscription fees       yes       variable         Basis for increasing fees as POs are added       based on No. of practices/groups       based on transaction volumes         Situations where fees increase with additional services       no increase       transaction prices reduced with higher volumes         Distinguishing product features (supplied by vendor)       • 100 percent Web based—thin client       • intuitive, insightful, innovative			•
Basis for increasing fees as POs are added       based on No. of practices/groups       based on transaction volumes         Situations where fees increase with additional services       no increase       based on No. of practices/groups       based on transaction volumes         Distinguishing product features (supplied by vendor)       • 100 percent Web based—thin client       • intuitive, insightful, innovative		-	
Distinguishing product features (supplied by vendor) • 100 percent Web based—thin client • intuitive, insightful, innovative	Basis for increasing fees as POs are added	based on No. of practices/groups	based on transaction volumes
	situations where fees increase with additional services	no increase	transaction prices reduced with higher volumes
	distinguishing product features (supplied by vendor)	•	

# Physician office-laboratory links software

STENDER 28 / CAP TODAY STENDER Provide A CAP TODAY Part 5 of 10	an office-laboratory link	s software
	Impac Medical Systems	KliniTek
Part 5 of 10	Julie DeSantis jdesantis@impac.com	Sue Wiljanen swiljanen@klinitek.com
	6399 San Ignacio Ave.	310 W. Washington St., Suite 300
Case accompanying articles on pages 12 and 10	San Jose, CA 95119 408-972-9600 www.impac.com	Marquette, MI 49855 906-228-2870 www.klinitek.com
See accompanying articles on pages 12 and 18 Iame of POLL software/system	IntelliLab Passport	Upcare eLab
First/most recent installation of software or system	2001/2006	2004/2004
lo. of host or central labs using software clinically	60	undisclosed
No. of host labs that electronically transfer orders from PO* to LIS	60 1997 / P	undisclosed
lo. of satellite locations installed/non-U.S. host installations lo. of contracts for host labs signed since March 1, 2005	120/0 9	40 locations and 500+ providers/0 0
Staff to develop-install & support host lab-install & support PO-other** in	150-150 (for host lab and P0)-200/6-9 (for host lab and P0)-7	6-3-n/a-2/6-3-n/a-2
entire firm/in POLL software division		Maxwella Canaval Haantal
lational commercial labs that use POLL package Average time to install, build files, train office staff in a typical PO	 <1 hour	Marquette General Hosptal <1 hour
IS, HIS, and other interfaces	Impac, Siemens, Misys, GE, others	Cerner, McKesson
Software modifications or modules required on host LIS to interface?	no	no
POPMS*** used to transfer patient demographics or billing info. to POLL system fow demographics or billing information is transferred from POPMS at PO or clinic	Impac, Misys, LinkMed, QSI, Dairyland, NextGen, GE, others one-time batch download/file transfer, daily update of demographics,	
to POLL system	more frequent update of all demographics that have changed	
External software tools or vendors used to transfer data from POPMS to POLL syst		<u> </u>
Test directory stored on PO system?	yes	no
low results are returned to PO Data interface standards supported	block of text, PDF HL7	PDF, individually segmented fields ASTM 1238, HL7, ANSI X12, XML, CDA, custom when require
Data interface standards supported		imbedded interface engine included
system supports LOINC for identifying lab result database elements?	no	yes
System architecture or functionality	thick client, PC, while connected to lab host; modified Web browser	standard Web browser (Internet Explorer)
Patient order and result database maintained on local PC?	no	no
Software displays results and allows orders to be entered in an offline mod Online connections between PO and central or host system	e? no dial-up modem to private phone No., leased line, VPN, public Internet connection	— leased line, VPN, public Internet connection (DSL/cable modeling required), any network capable of supporting TCP/IP
Complete ASP solution for POLL software?/Method of charging for ASP servic	e —	yes/fixed monthly fee
eatures (listed as a percentage of live installs or whether or not it's availabl	e)	
Order entry		
<ul> <li>Medicare compliance checking using carrier-specific rules</li> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> </ul>	100% 100%	100% 100%
<ul> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> <li>Local medical review policies can be viewed</li> </ul>	100%	100% 100%
- Automatic routing of an order to different labs according to payer rules	100%	not available
- Printing of lab's requisitions	100%	100%
<ul> <li>Printing of requisitions for other lab providers</li> <li>Duplicate order checking</li> </ul>	100% 100%	not available 100%
- Physician office-specific panels	100%	100%
Electronic order entry (from PO to host)	100%	100%
Transfer of patient demographics or insurance     Automatic handling of scheduled or standing orders	100%	100% available in May 2006
<ul> <li>Automatic handling of scheduled or standing orders</li> <li>Automatic routing of orders to hospital or commercial labs depending on pay</li> </ul>	100% /er rules 100%	available in May 2006 not available
Bar-code collection label printing	100%	100%
Two-dimensional bar code on printed requisition	not available	not available
Software adapted for use in phlebotomy or collection stations Result receipt	100%	not available
- Stored as a block of text	not available	not available
- All items (result, reference range, units) stored as individual data element		100%
<ul> <li>Automatic parsing of report pages to extract results</li> <li>Inquiry mode that allows P0 to check status of specimens with host</li> </ul>	not available 100%	not available 100%
Reporting		
- In exact format received from host lab	100%	not available available but not installed
- Cumulative - Integration of host and PO lab results	100% 100%	available but not installed available but not installed
- Display of new results for patient and/or clinic	100%	100%
Remote access available to on-call physicians	100%	100% available third quarter 2006
Unattended printing of reports     Display current report with historical data on same screen	100% 100%	available third quarter 2006 100%
- Graph historical results with current results for trend analysis	100%	100%
Physician can electronically sign reports to confirm review	not available	not available
Physician can compose and send secure electronic messages to patients User-defined rule-based system and alerts in PO module	100% 100%	not available available but not installed
Electronic transfer of data to another PO	100%	not available
- E-mail/encrypted e-mail	100%/100%	not available
- Web reference or pointer to Web site - Fax	100% 100%	not available not available
PO orders supplies from host lab	not available	100%
- Specimen pickup or courier requests to host lab	not available	not available
Financial - Billing, collections, accounts receivable	100%	not available
- Electronic claims transfer/interfaces to billing systems	100%/100%	not available available third quarter 2006
Electronic medical record interface Interfaces to PO lab instruments	80% 50%	available third quarter 2006 not available
Entry of PO lab results with edit checks	100%	not available
ystem priced on a cost-per-transaction basis? Ine-time/initial charges	no license by concurrent user	no 
Nonthly/subscription fees		hand an approximate second
Basis for increasing fees as POs are added Situations where fees increase with additional services	based on concurrent users with additional interfaces	based on concurrent users if order entry is added to result transmission (or vice versa) special billing functions are added
Distinguishing product features (supplied by vendor)	secured Web/Internet based     automated a-mail_fax_and printing of reports	easily installed, low maintenance, and includes MPI and     interface engine
	<ul> <li>automated e-mail, fax, and printing of reports</li> <li>flexible interfacing, including reference labs and oncology-</li> </ul>	interface engine • leadership team is highly experienced in health care and (
	- manuel grand, manually reference dus due uncounty-	
20=physician's office	based information systems	integration

## Physician office-laboratory links software

Aay 2006 CAP TODAY / 29 Physician office-laboratory links software Labert Systems			
/	Labtest Systems		
Part 6 of 10	Jack Redding jredding@labtest.com 140 Greenwood Ave.	Stacy Block stacy.block@mckesson.com 5995 Windward Parkway	
	Midland Park, NJ 07432	Alpharetta, GA 30005	
See accompanying articles on pages 12 and 18	866-522-8378 www.labtest.com	800-981-8601 http://infosolutions.mckesson.com	
Name of POLL software/system	Labtest.com (and sponsor lab branded)	Horizon Outreach for Lab	
First/most recent installation of software or system	2000/2006	1999/2006	
No. of host or central labs using software clinically • No. of host labs that electronically transfer orders from PO* to LIS	102 90	_	
No. of satellite locations installed/non-U.S. host installations	10,000+/1	1,000/0	
No. of contracts for host labs signed since March 1, 2005	54	n/a	
Staff to develop-install & support host lab-install & support PO-other** in entire firm/in POLL software division	10-4-4-11/10-4-4-11	20,000+ total/10-5-5-3	
National commercial labs that use POLL package	University Hospitals of Cleveland, Sharp HealthCare, Southwest	none	
Average time to install, build files, train office staff in a tunical DO	Washington Medical Center, Central Georgia Diagnostics <1 hour	1 hour	
Average time to install, build files, train office staff in a typical PO		1 Hour	
LIS, HIS, and other interfaces	SCC, Misys, Cerner, CoPath, Fletcher Flora, Psyche, Meditech, NextGen, GE, others	McKesson	
Software modifications or modules required on host LIS to interface?	no	no	
POPMS*** used to transfer patient demographics or billing info. to POLL system	NextGen, Medical Manager, Lytec, GE, Misys, MediSoft, Medic	Practice Point Plus, Medical Manager	
How demographics or billing information is transferred from POPMS at PO or clinic to POLL system	one-time batch download/file transfer, daily update of demograph- ics, more frequent automatic update of all demographics that have	more frequent automatic update of all demographics that have changed, scripted into application	
	changed, POLL provides patient ID to POPMS and POPMS replies in		
External software tools or vendors used to transfer data from DODMC to DOLL sustain	real-time Higraeve proprietary others	Roston Workstation	
External software tools or vendors used to transfer data from POPMS to POLL system	Hilgraeve, proprietary, others	Boston Workstation	
Test directory stored on PO system?	yes block of toxt DDE individually compared fields	NO	
How results are returned to PO Data interface standards supported	block of text, PDF, individually segmented fields ASTM 1238, HL7, ANSI X12, XML, CDA, custom when required	block of text, individually segmented fields HL7, custom when required (Web viewing)	
System supports LOINC for identifying lab result database elements?	yes	no	
System architecture or functionality	standard Web browsers—all	standard Web browser (Internet Explorer)	
Patient order and result database maintained on local PC? • Software displays results and allows orders to be entered in an offline mode?	yes (for thick client) yes (for thick client)	no 	
Online connections between PO and central or host system	public Internet connections (dial-up sufficient)	VPN, public Internet connection	
Complete ASP solution for POLL software?/Method of charging for ASP service	yes/fixed monthly fee	no	
Footures (listed as a percentage of live installe or whether or not it's available)			
<ul> <li>Features (listed as a percentage of live installs or whether or not it's available)</li> <li>Order entry</li> </ul>			
- Medicare compliance checking using carrier-specific rules	100%	installed	
<ul> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> <li>Local medical review policies can be viewed</li> </ul>	100% 100%	installed not available	
- Automatic routing of an order to different labs according to payer rules	80%	installed	
- Printing of lab's requisitions	100%	installed	
- Printing of requisitions for other lab providers	100%	installed	
- Duplicate order checking	100%	installed	
<ul> <li>Physician office-specific panels</li> <li>Electronic order entry (from P0 to host)</li> </ul>	100% 100%	installed installed	
- Transfer of patient demographics or insurance	100%	installed	
- Automatic handling of scheduled or standing orders	20%	available in 2006	
<ul> <li>Automatic routing of orders to hospital or commercial labs depending on payer rules</li> <li>Bar-code collection label printing</li> </ul>	85% 70%	installed installed	
Two-dimensional bar code on printed requisition	75% (PDF 417)	installed	
<ul> <li>Software adapted for use in phlebotomy or collection stations</li> </ul>	75%	installed	
Result receipt     Stored on a block of toxt	10%		
<ul> <li>Stored as a block of text</li> <li>All items (result, reference range, units) stored as individual data elements</li> </ul>	90%	installed	
- Automatic parsing of report pages to extract results	90%	_	
- Inquiry mode that allows PO to check status of specimens with host	95%	installed	
Reporting     In exact format received from host lab	75%	installed	
- Cumulative	75%	not available	
- Integration of host and PO lab results	25%	not available	
Display of new results for patient and/or clinic     Remote access available to on-call physicians	100% 100%	installed installed	
- Remote access available to on-call physicians - Unattended printing of reports	90%	installed	
- Display current report with historical data on same screen	100%	installed	
Graph historical results with current results for trend analysis     Bhysician can electronically give reports to confirm review	100%	installed	
<ul> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can compose and send secure electronic messages to patients</li> </ul>	75% 5%	not available not available	
User-defined rule-based system and alerts in PO module	100%	installed	
Electronic transfer of data to another PO	100%	installed	
<ul> <li>E-mail/encrypted e-mail</li> <li>Web reference or pointer to Web site</li> </ul>	25%/25% 25%	installed/	
- Fax	25% 25%		
PO orders supplies from host lab	40%	not available	
<ul> <li>Specimen pickup or courier requests to host lab</li> <li>Financial</li> </ul>	20%	installed	
- Billing, collections, accounts receivable	40% (through partnership with Quadax)	installed	
- Electronic claims transfer/interfaces to billing systems	30% (through partnership with Quadax)/70% (through partnership	installed	
Electronic medical record interface	with Quadax, Hilgraeve) 80%	installed	
Interfaces to PO lab instruments	25% (through partnership with Fletcher Flora) 25%	available but not installed not available	
Entry of PO lab results with edit checks	LJ /0		
System priced on a cost-per-transaction basis?	N0 ¢54_\$754	NO charge to host lab: no charge to physician practice	
One-time/initial charges Monthly/subscription fees	\$5k-\$75k \$2k+	charge to host lab; no charge to physician practice	
Basis for increasing fees as POs are added	based on No. of physicians of record	no increase—flat fee per host lab	
Situations where fees increase with additional services	if other ancillaries are added	no increase	
Distinguishing product features (supplied by vendor)	seven-year history of successful implementations	• integrated, not interfaced, with McKesson's Horizon Lab LIS	
		a inclusional yeards, encourses labels	
PO=physician's office	<ul> <li>field-proven EMR integration capability/middleware functionality</li> <li>no offshore programming or outsourcing</li> </ul>	instrument-ready specimen labels     can integrate with physician practice management systems and EN	

## Physician office-laboratory links software

STENDED 30 / CAP TODAY Physician Part 7 of 10	n office-laboratory link	s software
E		•
Part 7 of 10	Misys Healthcare Systems Mike Truell mike.truell@misyshealthcare.com	Mitem Corp. Eric Q. Reynolds ereynolds@mitem.com
	8529 Six Forks Rd.	2464 Taylor Rd., Suite 213
	Raleigh, NC 27615	Wildwood, MO 63040
See accompanying articles on pages 12 and 18	919-847-8102 www.misyshealthcare.com	636-273-4034 www.blueiris.com
Name of POLL software/system	Misys Encompass	Blue Iris eLaborate
First/most recent installation of software or system	/Feb. 2005	1990/2006
No. of host or central labs using software clinically	8	17
<ul> <li>No. of host labs that electronically transfer orders from PO* to LIS</li> <li>No. of satellite locations installed/non-U.S. host installations</li> </ul>	8 500–800/0	8 750+/0
No. of contracts for host labs signed since March 1, 2005	8	4
Staff to develop-install & support host lab-install & support PO-other** in	400-450-0-175/11-4-0-0	15-15-8-8/5-5-5-3
entire firm/in POLL software division	TriOara	Forme Discussion
National commercial labs that use POLL package Average time to install, build files, train office staff in a typical PO	TriCore	Focus Diagnostics 2 hours
LIS, HIS, and other interfaces	Misys	Meditech, Cerner, SCC, Misys, GE, Eclipsys, others
Software modifications or modules required on host LIS to interface?	no	no
POPMS*** used to transfer patient demographics or billing info. to POLL system	Misys Tiger, Misys Vision, Centricity, Logician, GE, Medical	Misys, MARS, RenalSoft, GE
How demographics or billing information is transferred from POPMS at PO or clinic	Manager, Compusystems, MediSoft, NueMD, MicroMD POLL provides patient ID to POPMS and POPMS replies in real-	one-time batch download/file transfer, daily update of demo
to POLL system	time	graphics, more frequent automatic update of all demographi
External software tools or vendors used to transfer data from POPMS to POLL system	Hilgraeve	that have changed, others none
	Ingluoro	iidiid
Fest directory stored on PO system? How results are returned to PO	no 	no block of text, PDF, individually segmented fields
how results are returned to PO Data interface standards supported	— HL7, ANSI X12	HL7, XML, custom when required
System supports LOINC for identifying lab result database elements?	yes	yes
System architecture or functionality	standard Web browser (Internet Explorer 5.5 sp2 and higher)	standard Web browser (Internet Explorer)
Patient order and result database maintained on local PC? • Software displays results and allows orders to be entered in an offline mode?	no 	no no
Online connections between PO and central or host system	public Internet connection	public Internet connection
Complete ASP solution for POLL software?/Method of charging for ASP service		vac/fixed mentally for
	no	yes/fixed monthly fee
Features (listed as a percentage of live installs or whether or not it's available) • Order entry		
- Medicare compliance checking using carrier-specific rules	100%	75%
<ul> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> <li>Local medical review policies can be viewed</li> </ul>	100% not available	75% 75%
<ul> <li>- Local medical review policies can be viewed</li> <li>- Automatic routing of an order to different labs according to payer rules</li> </ul>	not available	75%
- Printing of lab's requisitions	100%	75%
- Printing of requisitions for other lab providers	not available	30%
- Duplicate order checking	100%	50%
<ul> <li>Physician office-specific panels</li> <li>Electronic order entry (from PO to host)</li> </ul>	100% 100%	50% 50%
- Transfer of patient demographics or insurance	100%	50%
<ul> <li>Automatic handling of scheduled or standing orders</li> </ul>	100%	20%
<ul> <li>Automatic routing of orders to hospital or commercial labs depending on payer rules</li> <li>Device a contraction label writting</li> </ul>		50%
<ul> <li>Bar-code collection label printing</li> <li>Two-dimensional bar code on printed requisition</li> </ul>	100% not available	50% available but not installed
Software adapted for use in phlebotomy or collection stations	not available	75%
Result receipt		
- Stored as a block of text	not available	0
- All items (result, reference range, units) stored as individual data elements	100% not available	100%
<ul> <li>Automatic parsing of report pages to extract results</li> <li>Inquiry mode that allows PO to check status of specimens with host</li> </ul>	not available 100%	100% 50%
Reporting		
- In exact format received from host lab	100%	installed
- Cumulative - Integration of host and PO lab results	100% not available	100% not available
- Display of new results for patient and/or clinic	100%	100%
- Remote access available to on-call physicians	100%	100%
- Unattended printing of reports	not available	available but not installed
<ul> <li>Display current report with historical data on same screen</li> <li>Graph historical results with current results for trend analysis</li> </ul>	100% 100%	100% 100%
Graph historical results with current results for trend analysis     Physician can electronically sign reports to confirm review	100%	available in 2007
<ul> <li>Physician can compose and send secure electronic messages to patients</li> </ul>	not available	available in 2007
User-defined rule-based system and alerts in PO module	100%	available but not installed
Electronic transfer of data to another PO     E-mail/operated e-mail	not available	installed
<ul> <li>E-mail/encrypted e-mail</li> <li>Web reference or pointer to Web site</li> </ul>	not available 100%	not available/installed not available
- Fax	100%	installed
PO orders supplies from host lab	not available	50%
- Specimen pickup or courier requests to host lab • Financial	not available	50%
- Billing, collections, accounts receivable	100%	not available
- Electronic claims transfer/interfaces to billing systems	100%/100%	available in 2007/20%
<ul> <li>Electronic medical record interface</li> <li>Interfaces to PO lab instruments</li> </ul>	not available not available	25% available but not installed
Entry of P0 lab results with edit checks	not available	not available
System priced on a cost-per-transaction basis?	no	no
One-time/initial charges Monthly/subscription fees	for hardware, software, interface, implementation for monthly maintenance	\$50k–\$75k \$4k–\$6k
Basis for increasing fees as POs are added	based on No. of physicians of record	ъчк–эок no increase—flat fee per host lab
Situations where fees increase with additional services	if special billing functions are added	if order entry is added to result transmission (or vice versa)
Distinguishing product features (supplied by vendor)	• real-time lab dictionary updates eliminate dual maintenance	• specialize in complex interfacing scenarios and connectivi
orsunguishing product reatures (supplied by vehicle)		
naungulanning product reatures (supplied by vendor)	<ul> <li>electronic medical patient index logic ensures unique identifica- tion of users and patients</li> </ul>	challenges • market unique ability to non-invasively interface with

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Part 8 of 10		
	Multidata Computer Systems Michael Slater mrslater@mul.com	Orchard Software Kerry Foster kfoster@orchardsoft.com
	55 Broad St., 10th floor	701 Congressional Blvd., Suite 360
	New York, NY 10004	Carmel, IN 46032
ee accompanying articles on pages 12 and 18	212-967-6700, ext 8118 www.mul.com	800-856-1948 www.orchardsoft.com
ame of POLL software/system	MultiLink	Orchard Harvest Webstation
irst/most recent installation of software or system	1996/2006	2000/2006
o. of host or central labs using software clinically No. of host labs that electronically transfer orders from PO* to LIS	9 7	194 146
o. of satellite locations installed/non-U.S. host installations	250+/0	1,500+/0
o. of contracts for host labs signed since March 1, 2005	0	49
taff to develop-install & support host lab-install & support PO-other** in entire firm/in POLL software division	4-5-0-2/1.5-1.5-0-1	24-49-0-32/24-49-0-32
ational commercial labs that use POLL package		none
verage time to install, build files, train office staff in a typical PO	4 hours	1 hour
IS, HIS, and other interfaces	Multidata, Diamond	Orchard, McKesson, Siemens, Dairyland, Meditech, Cerner, GE, CPSI, Misys, others
oftware modifications or modules required on host LIS to interface? OPMS*** used to transfer patient demographics or billing info. to POLL system	no VitalWorks, others	no Medical Manager, Clinitek, MedicaLogic, NextGen, Medigate, Mis
		GE
ow demographics or billing information is transferred from POPMS at PO or clinic to POLL system	one-time batch download/file transfer, daily update of demo- graphics, more frequent automatic update of all demographics	one-time batch download/file transfer, daily update of demograph ics, more frequent automatic update of all demographics that have
	that have changed, others	changed, others
xternal software tools or vendors used to transfer data from POPMS to POLL system	LinkTools for real-time HL7	none needed (native embedded solution)
est directory stored on PO system?	yes	no results returned as UTAU
ow results are returned to PO ata interface standards supported	individually segmented fields ASTM 1238, HL7, custom when required	results returned as HTML HL7
stem supports LOINC for identifying lab result database elements?	yes	yes
ystem architecture or functionality	thick client, PC, while not connected to lab host	thick client, PC, while connected to lab host; thin proprietary clie
atient order and result database maintained on local PC?		standard Web browsers—all
Software displays results and allows orders to be entered in an offline mode?	yes yes	no 
nline connections between PO and central or host system	dial-up modem to private phone No., VPN, public Internet connection (dial-up sufficient)	public Internet connection
omplete ASP solution for POLL software?/Method of charging for ASP service	no	yes (with Copia)/cost is part of purchase agreement
eatures (listed as a percentage of live installs or whether or not it's available)		
Order entry		
<ul> <li>Medicare compliance checking using carrier-specific rules</li> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> </ul>	95% 25%	100% 100%
<ul> <li>Local medical review policies can be viewed</li> </ul>	95%	installed
- Automatic routing of an order to different labs according to payer rules	60%	100%
- Printing of lab's requisitions	95%	100%
Printing of requisitions for other lab providers     Duplicate order checking	60% 95%	100% 100%
- Physician office-specific panels	95%	100%
Electronic order entry (from PO to host)	95%	100%
<ul> <li>Transfer of patient demographics or insurance</li> <li>Automatic handling of scheduled or standing orders</li> </ul>	95% 25%	100% 100%
<ul> <li>Automatic national of scheduled of stational of ders</li> <li>Automatic routing of orders to hospital or commercial labs depending on payer rules</li> </ul>		100%
Bar-code collection label printing	95%	not available
Two-dimensional bar code on printed requisition	available but not installed	100%
Software adapted for use in phlebotomy or collection stations Result receipt	5%	not available
- Stored as a block of text	not available	100%
- All items (result, reference range, units) stored as individual data elements	100% not available	100% 100%
<ul> <li>Automatic parsing of report pages to extract results</li> <li>Inquiry mode that allows PO to check status of specimens with host</li> </ul>	100%	100%
Reporting	100%	100%
<ul> <li>In exact format received from host lab</li> <li>Cumulative</li> </ul>	100% 100%	100% 100%
- Integration of host and PO lab results	not available	100%
- Display of new results for patient and/or clinic	100%	100%
Remote access available to on-call physicians     Unattended printing of reports	not available 100%	100% 100%
- Display current report with historical data on same screen	100%	100%
- Graph historical results with current results for trend analysis	100%	100%
Physician can electronically sign reports to confirm review Physician can compare and sond socure electronic messages to nationts	not available	100%
Physician can compose and send secure electronic messages to patients User-defined rule-based system and alerts in PO module	not available 50%	not available 100%
Electronic transfer of data to another PO	not available	100%
- E-mail/encrypted e-mail	_	10%/10% 50%
<ul> <li>Web reference or pointer to Web site</li> <li>Fax</li> </ul>	_	50% 100%
PO orders supplies from host lab	25%	not available
- Specimen pickup or courier requests to host lab Financial	25%	not available
- Billing, collections, accounts receivable	not available	not available
- Electronic claims transfer/interfaces to billing systems Electronic medical record interface	not available not available	not available/100% not available
Interfaces to PO lab instruments	not available	not available
Entry of PO lab results with edit checks	not available	not available
ystem priced on a cost-per-transaction basis? ne-time/initial charges	no \$25k-\$50k (based on options selected)	no part of purchase agreement or as add-on module
Ionthly/subscription fees	_	n/a
asis for increasing fees as POs are added ituations where fees increase with additional services	based on No. of practices/groups if order entry is added to result transmission (or vice versa) or for special modules	as concurrent user licenses are needed no increase
istinguishing product features (supplied by vendor)	multi-user version can be implemented across LAN/WAN for	cost-effective
20=physician's office	<ul> <li>Indituder version can be implemented across LAW/WAN for large medical facilities</li> <li>custom functionality for special clinics/settings</li> </ul>	cost-enecuve     diagnosis code screening and destination filters     order entry/results retrieval for reference lab testing

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	PathLogix Corp.	SCC Soft Computer
• Part 9 of 10	Jerry Grayson jerry@pathlogix.com 470 Nautilus St., Suite 306	Ellie Vahman ellie@softcomputer.com 34350 U.S. Highway 19 North
	La Jolla, CA 92037	Palm Harbor, FL 34684
See accompanying articles on pages 12 and 18	<b>858-454-8030</b> www.pathlogix.com	727-789-0100 www.softcomputer.com
Name of POLL software/system	InterPath	SoftWeb Outreach Suite
First/most recent installation of software or system No. of host or central labs using software clinically	2002/2006	2003/2006 6
• No. of host labs that electronically transfer orders from PO* to LIS	4	5
No. of satellite locations installed/non-U.S. host installations	unknown (browser based)/0	50/0
No. of contracts for host labs signed since March 1, 2005 Staff to develop-install & support host lab-install & support PO-other** in	2 2-1-1-0/2-1-1-0	7 603-79-178-170/29-4-9-8
entire firm/in POLL software division		
National commercial labs that use POLL package Average time to install, build files, train office staff in a typical PO		none 30 hours
LIS, HIS, and other interfaces	PathLogix, GE	SoftLab, Sysware, PowerLab
Software modifications or modules required on host LIS to interface?	no	no
POPMS*** used to transfer patient demographics or billing info. to POLL system	Medical Manager	none
How demographics or billing information is transferred from POPMS at PO or cli to POLL system	nic more frequent automatic update of all demographics that have changed	one-time batch download/file transfer, HL7 interfacing availabl
External software tools or vendors used to transfer data from POPMS to POLL sy		
		10
Test directory stored on PO system? How results are returned to PO	no PDF, individually segmented fields	no PDF, individually segmented fields
Data interface standards supported System supports LOINC for identifying lab result database elements?	HL7, XML, custom when required yes	HL7, XML, Windows Metafile planned
System architecture or functionality	thick client, PC, while connected to lab host; standard Web brow	
	(Internet Explorer)	
Patient order and result database maintained on local PC? • Software displays results and allows orders to be entered in an offline mo	no mde? —	no
Online connections between PO and central or host system	public Internet connection (DSL/cable modern required)	dial-up modem to private phone No., leased line, VPN, public Internet connection
Complete ASP solution for POLL software?/Method of charging for ASP serv	rice no	yes/fixed monthly fee
Features (listed as a percentage of live installs or whether or not it's availa	ble)	
• Order entry	,	
<ul> <li>Medicare compliance checking using carrier-specific rules</li> <li>Advanced beneficiary notice printed if medical necessity criteria not me</li> </ul>	not available t not available	installed installed
<ul> <li>Local medical review policies can be viewed</li> </ul>	not available	not available
- Automatic routing of an order to different labs according to payer rules	not available	installed
<ul> <li>Printing of lab's requisitions</li> <li>Printing of requisitions for other lab providers</li> </ul>	100% 100%	installed available in 2006
- Duplicate order checking	100%	installed
- Physician office-specific panels	100%	installed
<ul> <li>Electronic order entry (from PO to host)</li> <li>Transfer of patient demographics or insurance</li> </ul>	100% 100%	installed installed
- Automatic handling of scheduled or standing orders	100%	available in 2006
- Automatic routing of orders to hospital or commercial labs depending on p	-	installed
<ul> <li>Bar-code collection label printing</li> <li>Two-dimensional bar code on printed requisition</li> </ul>	100% 100%	installed available in 2006
<ul> <li>Software adapted for use in phlebotomy or collection stations</li> </ul>	not available	installed
Result receipt		
- Stored as a block of text	0 nts 100%	installed installed
<ul> <li>All items (result, reference range, units) stored as individual data eleme</li> <li>Automatic parsing of report pages to extract results</li> </ul>	100%	installed
- Inquiry mode that allows PO to check status of specimens with host	100%	installed
<ul> <li>Reporting</li> <li>In exact format received from host lab</li> </ul>	100%	installed
- Cumulative	not available	installed
- Integration of host and PO lab results	100%	available in 2006
<ul> <li>Display of new results for patient and/or clinic</li> <li>Remote access available to on-call physicians</li> </ul>	100% 100%	installed installed
- Unattended printing of reports	not available	installed
- Display current report with historical data on same screen	not available	installed
<ul> <li>Graph historical results with current results for trend analysis</li> <li>Physician can electronically sign reports to confirm review</li> </ul>	not available 100%	installed installed
<ul> <li>Physician can electronically sign reports to confirm review</li> <li>Physician can compose and send secure electronic messages to patients</li> </ul>		available in 2006
User-defined rule-based system and alerts in PO module	100%	installed
<ul> <li>Electronic transfer of data to another PO</li> <li>E-mail/encrypted e-mail</li> </ul>	100%	installed installed/available but not installed
- E-mail/encrypted e-mail - Web reference or pointer to Web site	 100%	available in 2006
- Fax	100% natavailabla	available in 2006
<ul> <li>PO orders supplies from host lab</li> <li>Specimen pickup or courier requests to host lab</li> </ul>	not available not available	available in 2006 available in 2006
<ul> <li>Financial</li> <li>Billing, collections, accounts receivable</li> </ul>	not available	not available
- Electronic claims transfer/interfaces to billing systems	installed	not available
<ul> <li>Electronic medical record interface</li> <li>Interfaces to PO lab instruments</li> </ul>	100% not available	not available not available
Entry of PO lab results with edit checks	not available	not available
System priced on a cost-per-transaction basis?		no
One-time/initial charges Monthly/subscription fees	\$3k-\$5.5k 	_
Basis for increasing fees as POs are added	no increase—flat fee per host lab	no increase—flat fee per host lab
Situations where fees increase with additional services	if order entry is added to result transmission (or vice versa) or if special billing functions are added	if order entry is added to result transmission (or vice versa) or special billing functions are added
Distinguishing product features (supplied by vendor)	• system provides adaptability and flexibility	• robust rules and logic simplify order entry, compliance, and
	<ul> <li>uses special programming to allow physician access from disparate locations</li> </ul>	specimen processing

## Physician office-laboratory links software

Aay 2006 Physician office-laboratory links software Sysmex America Kevin Bryan bryank@sysmex.com CAP TODAY / 35 Fit of 10 Fit of 10 CAP TODAY / 35 Fit of 10 Fit of 10 CAP TODAY / 35 Fit of 10 Fit of 10 CAP TODAY / 35 Fit of 10 Fit of		
	Sysmex America	Telcor
art 10 of 10	Kevin Bryan bryank@sysmex.com 1 Nelson C. White Parkway	Mitch Fry mitch.fry@telcor.com 1560 S. 70th St.
	Mundelein, IL 60060	Lincoln, NE 68506
ee accompanying articles on pages 12 and 18	800-379-7639, ext 4990 www.sysmex.com/usa	402-489-1207 www.telcor.com
ame of POLL software/system	eClair	Quick-Req/Quick-Results
rst/most recent installation of software or system	1998/2006	1997/ Feb. 2006
o. of host or central labs using software clinically No. of host labs that electronically transfer orders from PO* to LIS	63 6	16 5
o. of satellite locations installed/non-U.S. host installations	4,000+/60	857/0
o. of contracts for host labs signed since March 1, 2005	10	3
taff to develop-install & support host lab-install & support PO-other** in entire firm/in POLL software division	300-100-0-1,500/6-8-0-30	12-19 (for host lab and PO)-11/5-7 (for host lab and PO)-4
ational commercial labs that use POLL package	ACL Laboratories, Health Network Laboratories	none
verage time to install, build files, train office staff in a typical PO	1 hour	1.5 hours
S, HIS, and other interfaces	Misys, Molis, GE	Novius, Aspyra, Misys, Cerner, Cortex, others
oftware modifications or modules required on host LIS to interface?	no	yes
OPMS*** used to transfer patient demographics or billing info. to POLL system	GE	DigiChart, Gamewood, eClinical Works, Advantix, MediSoft, Centricity, Athena
ow demographics or billing information is transferred from POPMS at PO or clinic	one-time batch download/file transfer, daily update of demograph-	one-time batch download/file transfer, daily update of demographic
to POLL system	ics, more frequent automatic update of all demographics that have changed	more frequent automatic update of all demographics that have changed, others
sternal software tools or vendors used to transfer data from POPMS to POLL system	eBiz	none
est directory stored on PO system?	no	yes
ow results are returned to PO	block of text, PDF, individually segmented fields	block of text, PDF, individually segmented fields
ata interface standards supported ystem supports LOINC for identifying lab result database elements?	HL7, XML yes	HL7, ANSI X12, XML, custom when required no
	standard Web browsers—all	thick client DC while not connected to lok boot
ystem architecture or functionality atient order and result database maintained on local PC?	no	thick client, PC, while not connected to lab host yes
Software displays results and allows orders to be entered in an offline mode? nline connections between PO and central or host system		yes public Internet connection
	required)	
omplete ASP solution for POLL software?/Method of charging for ASP service	no	yes/fixed monthly fee
eatures (listed as a percentage of live installs or whether or not it's available)		
Order entry		
<ul> <li>Medicare compliance checking using carrier-specific rules</li> <li>Advanced beneficiary notice printed if medical necessity criteria not met</li> </ul>	50% 50%	installed installed
<ul> <li>- Advanced beneficially notice printed in medical necessity criteria not met</li> <li>- Local medical review policies can be viewed</li> </ul>	50%	installed
<ul> <li>Automatic routing of an order to different labs according to payer rules</li> </ul>	available in April 2007	installed
- Printing of lab's requisitions	50%	installed
<ul> <li>Printing of requisitions for other lab providers</li> <li>Duplicate order checking</li> </ul>	available in April 2007 50%	installed installed
- Physician office-specific panels	50%	installed
Electronic order entry (from PO to host)	-	installed
Transfer of patient demographics or insurance	50%	installed
<ul> <li>Automatic handling of scheduled or standing orders</li> <li>Automatic routing of orders to hospital or commercial labs depending on payer rules</li> </ul>	50% available in April 2007	installed installed
Bar-code collection label printing	50%	installed
Two-dimensional bar code on printed requisition	50%	installed
Software adapted for use in phlebotomy or collection stations Result receipt	50%	installed
- Stored as a block of text	100%	installed
- All items (result, reference range, units) stored as individual data elements	100%	installed
<ul> <li>Automatic parsing of report pages to extract results</li> <li>Inquiry mode that allows PO to check status of specimens with host</li> </ul>	100% 100%	installed installed
Reporting		
- In exact format received from host lab	100%	installed installed
- Cumulative - Integration of host and PO lab results	100% installed	installed not available
- Display of new results for patient and/or clinic	100%	installed
- Remote access available to on-call physicians	100%	available but not installed
- Unattended printing of reports - Display current report with historical data on same screen	100% 100%	installed installed
- Graph historical results with current results for trend analysis	100%	installed
Physician can electronically sign reports to confirm review	installed	not available
Physician can compose and send secure electronic messages to patients User-defined rule-based system and alerts in PO module		not available installed
Electronic transfer of data to another PO		installed
- E-mail/encrypted e-mail	installed	installed/not available
- Web reference or pointer to Web site - Fax	100% 100%	not available installed
PO orders supplies from host lab	not available	installed
- Specimen pickup or courier requests to host lab Financial	50%	installed
<ul> <li>Billing, collections, accounts receivable</li> <li>Electronic claims transfer/interfaces to billing systems</li> </ul>	not available not available	installed installed
Electronic medical record interfaces to bining systems	50%	installed
Interfaces to PO lab instruments Entry of PO lab results with edit checks	installed installed	not available not available
•		
ystem priced on a cost-per-transaction basis? ne-time/initial charges	yes (depends on volume of transactions) —	no \$10k-\$100k
lonthly/subscription fees	_	for monthly service
asis for increasing fees as POs are added	-	based on No. of workstations
tuations where fees increase with additional services	_	if order entry is added to result transmission (or vice versa), if special billing functions are added, or based on patient service
		center functionality
istinguishing product features (supplied by vendor)	<ul> <li>Web page presentation and interaction</li> <li>rapid adoption by end users</li> </ul>	<ul> <li>integrates to Telcor outreach billing information system</li> <li>uses Internet for data transport with Quick Entry at office</li> </ul>