A Boston Research Laboratory Makes Use of Orchard Harvest LIS

It is typical for research laboratory facilities to have different needs for their lab system functionality than clinical laboratories, and it is no different for the Biomarker Research Laboratory in Boston, Massachusetts. These needs can range from how instruments are interfaced and orders are entered, to how results are reported. According to Mike Conrad, Project Manager for the lab, "Research laboratories have some very unique setups. They also need to have the right software to serve those needs, and Harvest is flexible enough to meet our needs."

The Biomarker Research Laboratory (BRL) opened in 2004 as a division of the Department of Pathology at Brigham and Women's Hospital. This hospital is a founding member of Partners Healthcare and is affiliated with Harvard Medical School. BRL conducted around 200,000 tests in 2011, with most of the tests focused on cardiovascular research. BRL has eight full-time laboratory staff members and a recent addition of robotics to help maintain high throughput on automated analyzers. In addition to the automation, Orchard® Harvest™ LIS is central to maintaining the laboratory's throughput.

Although the laboratory information system utilized by the rest of the hospital was one of the first home-grown systems created, Petr Jarolim, MD, PhD, the Director of the BRL, was concerned that it would not be compatible with the needs and

Biomarker Research Laboratory team from left to right: (Front Row) Ying-Lung Lee; Tim Oasan MLS(ASCP); Gretchen Labutti; Lea Ritterova; Judith Baronas MT(ASCP); (Back Row) John Rozehnal; Petr Jarolim M.D., Ph.D.; Michael J. Conrad; Jon Reimer.

demands of a clinical trials laboratory and sought third-party solutions. "Harvest was evaluated and compared with other products and Harvest's flexibility was the reason BRL selected the system."

One of the most important features in Harvest LIS for BRL is the custom study import, which was created in collaboration between Mike Conrad and Orchard. During the evaluation, Mike met with Orchard to describe BRL's need to order testing in batches in order to match the lab's established workflow. The ability to add this feature to the existing software was an important factor in the lab's choice of Orchard from the other competitors, including their internal laboratory information system. Mike stated, "The ability to order thousands or tens of thousands of tests efficiently is critical

to our operations. The custom feature that Orchard created is both robust and easy to use, and it has since found use in at least one other lab using Harvest, who used it in their clinical lab to order samples in a validation study."

inside this issue...

www.orchardsoft.com

An aspect common to most research facilities is a study-centered workflow, which means the laboratory's testing menu and workflow are often in flux. In the Biomarker laboratory, they run multiple studies at the same time, which requires flexibility in terms of instrument implementation and result reporting. Due to the number of studies that the laboratory conducts every year, their lab needs the ability to quickly exchange instruments. "Instruments in our lab can switch and move around every few months, and this product's remote interface installs, done over the phone, make these common transitions much easier," according to Mike.

Other aspects that Mike appreciates are the ability to control the user interface, electronic signature capabilities (another custom feature, added at the lab's request), and ease of use. The LIS allows the laboratory to add new methods quickly and now allows electronic signatures to be applied when approving results or saving comments, which has helped reduce the paperwork burden as well. "Study records must be accessible for years after the initial testing, so having access to a comprehensive reporting system located within our LIS has made our lives easier."

Although the Biomarker Research Laboratory uses Orchard Harvest LIS' core features on a daily basis, the custom features added by Orchard has tailored Harvest LIS to the laboratory's needs, resulting in a successful implementation of the LIS in the lab. 🍒

Jamie Lawson
Project Manager

Always cheerful and helpful, Jamie Lawson is a perfect fit for the role of Project Manager here at the Orchard. Jamie started her career at Orchard Software in 2004, installing Harvest LIS. Since then, Jamie has begun working on her master's degree at IUPUI in Health Informatics. Before coming to work at Orchard, she worked in the laboratory as a Laboratory Manager.

As Project Manager, Jamie works with our newest clients, making sure all of their needs are met and their projects remain on schedule. Jamie is a definite asset to our team due to her high energy, top notch organizational skills, and product knowledge. She is always willing to share her knowledge and experience with others, which is invaluable considering she communicates

Hanging out at the American Cancer Society Relay for Life campsite.

with both the clients' labs and our home office in Carmel.

When Jamie isn't coordinating Orchard installations, she is an avid reader, chef, and traveler. She also volunteers for the American Cancer Society Relay for Life and for the Indianapolis Zoo, where she had the good fortune of babysitting baby dolphins. 🍒

Where in the World is Orchy?

Orchard's unofficial mascot, Orchy, toured a European city known for sites created by a famous architect. If you can identify where Orchy was visiting, send your answer to **news@ orchardsoft. com** by May 15 to be eligible to win an Orchard prize package. Last newsletter, Rick Sweeney of Fremont/Rideout Health Group in Colusa, California, sent in the winning entry that Orchy was visiting Pittsburgh, Pennsylvania. Sign in to the Orchard website to see where in the world Orchy has been lately! 🍒

Free NCD File Updates for Orchard Customers

Orchard Software has entered into an agreement with Codemap® to make available at no charge to you, our customer, their Medicare National Coverage Determinations (NCD).

Codemap® provides accurate and dependable Medicare medical necessity data to hundreds of customers. Codemap® covers every Medicare contractor and will pre-format the NCD files for import directly into your Orchard Software product.

To order your NCD import file from Codemap®, sign in to the client-only area of the Orchard website, and click on the link to the Download Center's ICD and NCD file page. From there, you can access the online NCD data file subscription form from Codemap®. Once you have ordered your initial import file, you will be automatically included in scheduled updates that will be sent to you quarterly, one week before the update should be applied.

Please note that this agreement does not include any local coverage determinations (LCD) or the diagnosis code and description dictionary. If you wish to include LCD data in your subscription, you may contact Codemap® directly for pricing information. Orchard Software will continue to provide a copy of Medicare's free diagnosis code and description dictionary for use with our products.

If you need assistance with importing your Codemap® NCD file, please feel free to call Orchard Technical Support staff at **(800) 571-5835**.

Orchard Symposium 2012 – New Format Featuring All of Orchard's Products

Orchard Software is pleased to announce the date and location for our 2012 symposium. The first symposium with our new three-day format will take place Tuesday, Wednesday, and Thursday, October 2, 3, and 4, in Indianapolis, Indiana, at the **Sheraton Indianapolis Hotel at Keystone Crossing**. There is no cost to attend the symposium and a continental breakfast and lunch will be provided each day; however, travel, lodging, and other meals are not included. We want to let you know now so that you have plenty of time to plan your trip to attend!

This three-day format allows us to dedicate one day to each featured product. In 2006, when Orchard Software introduced our Orchard Harvest LIS Symposiums, Harvest LIS was our only significant product offering. Orchard® Copia™ was still in its infancy and Orchard® Pathology had just been released in January 2006.

Today, six years later, with more than 1,000 customers, we have significantly increased our user base of Orchard Copia and Orchard Pathology, and we are at a point where we need to dedicate an entire day for each system. And logistically, since some of our customers utilize various combinations of our products, holding these day-long events back to back in the same week will be more convenient for everyone. It is our intention to move forward with this multi-day event on an annual basis.

The Harvest LIS day, Tuesday, will have a similar agenda and sessions as we have in the past, with topics ranging from *What's New in Harvest LIS v9.0*, *IT Stuff—Integration/Networks/Setup/Hardware/Maintenance*, *Data Mining*, *Setting Up Rules*, *HL7 Interfacing & Integration*, *Sample Tracking*, and *An Update on Regulatory and ARRA*, to our new product, *Orchard® Trellis™*.

Wednesday will be dedicated to Orchard Copia, and we will offer four sessions for all attendees. The topics for the sessions include *What's New in Orchard Copia v5.0 & Copia Mobile Module*, *Report Formatting*, *Browsers and Data Mining*, and the *Client Services Module*.

Finally, on Thursday, our focus will be Orchard Pathology with four sessions for all attendees. The topics are *What's New in Orchard Pathology v9.0*, *Reports/Cancer Summaries*, *Sample Tracking*, and *Web AP*.

We have made this early announcement so that you can begin planning for this week in October, should you want to attend. For the most up-to-date information on agenda and sessions, please check out the Symposiums page on our website at **www.orchardsoft.com/symposiums/**. We hope to have our agenda confirmed by the end of May, with sign-up beginning in June 2012. Please stay tuned to our website, newsletter, and online forums for more details as they become available.

Announcing Orchard Trellis: Our New Product for Integrating Remote POC Testing

Orchard Software is excited to announce our new product, Orchard® Trellis™. Trellis is an orders and results management software program that serves as a simple and cost-effective bridge for electronically passing orders and results between remote, point-of-care (POC) analyzers/instruments and Orchard Harvest LIS. With today's healthcare challenges surrounding efficiency and accountability, and the economic pressures to do more with less, Trellis provides the optimal means for electronic connectivity to more effectively manage your POC testing.

Orchard Trellis Bridges the Gap Between Remote POC Testing and Your EMR

How are your POC results getting into your EMR? Are they getting there accurately and in a timely manner? POC analyzers perform laboratory testing outside of the laboratory, and these results contribute to the overall diagnostic information a provider needs to access in the EMR. Unfortunately, there are some challenges with remote POC testing.

Because of the low volume, remote location, and limited connectivity capabilities inherent to most POC devices, most POC test results are not being captured in the EMR. If they are making it to the EMR, it involves manual entry—a time-consuming process subject to clerical errors.

Orchard Trellis

Trellis serves as a simple "review, click, and go" bridge for passing orders and results between POC analyzers/instruments and Orchard Harvest LIS version 9.0 and higher. Whether your POC testing is in a Protime clinic, a pediatrician's office, a Lipid clinic, or any other remote patient testing facility, Trellis is the solution designed to eliminate these problems and electronically integrate POC results back to your Harvest LIS and then into your EMR.

Trellis offers a simple and cost-effective connectivity solution for POC testing. The implementation of Trellis will improve patient care and enhance the value of your POC testing by providing real-time results into your EMR. In addition, the integration with your Harvest LIS will allow you to automate your remote QC and ensure accurate billing, saving you time and money.

Simple & Efficient Connectivity

Trellis uses the Internet and web services as the method of connectivity to enable electronic integration with remote locations. Harvest LIS with an Orchard Trellis Manager module provides centralized management of multiple Trellis POC sites and links these remote sites to your EMR. Because Trellis is deployed via web services, Trellis is easy to install, maintain, and upgrade. Software updates are installed by the system administrator in the Trellis Manager module on

Trellis

Harvest LIS server, and then pushed to Trellis, where they are automatically installed without the need for technical support.

Easy to Use

Trellis is easy to use, and training is straightforward because it is a simple software package for viewing orders, viewing results, and releasing them back to your Harvest LIS. The Trellis user interface is designed to be completely contained in a single window, eliminating the confusion of multiple overlapping windows.

Orders & Results, Review & Release

Orders placed in either your Harvest LIS or in your EMR are transmitted into Trellis and appear in the Pending Review view of the software. As results come from the analyzer, the microscope icon appears to notify you that results are available and ready for review and approval. Reviewing results is as easy as selecting a patient and clicking on the results icon or by double-clicking on a patient. Once results have been reviewed and approved, they are easily released to Harvest LIS or the EMR by clicking the release icon.

Released Orders

Trellis provides a Released Orders view, should there be a need to review a previously released order with results. As done in the Pending Review view, you review a patient's results by selecting the patient and either double-clicking on the patient's name or clicking the results icon.

Quality Control

Trellis complements Harvest LIS functionality to make patient results from POC analyzers easily accessible for analytics or inspection purposes and to simplify POC QC management. The QC features of Harvest LIS and the integration with Trellis provides you with the ability to easily manage QC at your remote sites. Harvest LIS can automatically push QC orders out to your remote locations. QC results come back to Harvest LIS, enabling you to eliminate the cumbersome manual process and easily monitor QC from the lab via your Harvest LIS.

Cost Savings & Benefits

Efficiency and cost savings are derived in the reduction of time spent manually entering patient results. In addition, greater accuracy can be attained by eliminating the chance of clerical errors. Because results are transmitted electronically into the EMR in real time, faster turnaround time is accomplished as testing is completed. Providers will have prompt access to the POC testing results for diagnosis and treatment of the patient. With Trellis, organizations will see increased productivity of staff and have more confidence in billing capture and test results because they are handled electronically. This provides speedier TATs for treating your patients, therefore improving patient care and creating a benefit not only for the patient but for your entire organization.

Simple Installation & Minimal Training

Trellis is a simple software solution. We provide you with the ability to easily load the Trellis software on your remote PC workstation. There are minimal hardware requirements and installation simply involves connecting Trellis to the POC device via a supplied digiport device. Training is minimal and conducted by phone.

So if you are looking for a cost-effective way to electronically bridge the gap between your remote POC testing and your EMR, contact your Orchard Account Manager at **(800) 856-1948** to see if Orchard Trellis is an appropriate solution for your facility.

Access Copia on the Go with the Orchard Copia Mobile Module!

One of the exciting new additions to Copia 5.0 is our new Orchard Copia Mobile module, which allows you to look up orders, view patient history, and review reports—all while you are on the go! It is also integrated with the Patient Portal module, so when you are using both modules and patients sign in with mobile devices, they will automatically be directed to a more device-friendly view of the results that have been released for their review.

It is important to note that the Orchard Copia Mobile module is not a stand-alone application, but rather a way of accessing Copia that is optimized for the web browser on your mobile device. Orchard Copia Mobile is "plug & play," so as soon as you enable the license for the module, you will be able to access the new mobile version using your iPhone, iPad, Android, or other supported mobile device.

Once you have set up the module on your Orchard system, users on supported mobile devices will be able to access results and popular Copia features on pages that have been streamlined for easier use on small device screens.

Easy Access to Features

With a simple click of a button on the main menu of Orchard Copia Mobile, you may access several features:

- **Find Patient**: Use the Find Patient page to select a patient, and then view that patient's order history data.
- **Find Order**: Use the Find Order page to select an order, and then view that order's details, including any associated lab reports or requisitions.
- **User Inbox**: Use the User Inbox page to view reports of patient results that were delivered to you and acknowledge any unacknowledged reports.
- **Location Inbox**: Use the Location Inbox page to view reports of patient results that were delivered to the selected location and acknowledge any unacknowledged reports.
- **Set Location**: Use the Set Location page to select the location where you are signing in. The location you select affects many settings throughout the program, as well as the patient records you may access.
- **Full Site**: Click this button to access the full version of the Copia application using your device's web browser. This is not recommended when using a mobile device, as the pages are not optimized for usage on mobile devices and the program may run more slowly.

Reviewing Results in the Inboxes

Use the User Inbox and Location Inbox pages to view reports of patient results that were delivered to you or your locations, as well as acknowledge any unacknowledged reports.

Viewing a Patient's Order History

Use the Order History page to view a patient's order history, as well as access associated lab reports and requisitions.

Applying Column View Rules for Orchard Copia Mobile

As with the standard view of the Copia application, you may use column view rules to control what data appears on pages when you use Orchard Copia Mobile. The program uses the same rules to display data, regardless of whether you access a page through the main application or through the mobile platform. Note, however, that because of the constraints of viewing data on a

Using the Orchard Copia Mobile module allows you to look up orders, view patient history, and review reports all while you are on the go!

Orchard Harvest LIS, Orchard Pathology v9.0 Are Released!

Orchard Software is pleased to announce that Orchard Harvest LIS and Orchard Pathology version 9.0 are now available to our clients and prospective clients! Orchard encourages all of our current clients to call Orchard Software Technical Support at (800) 573-5835 to schedule an appointment for their upgrade. This is a very important upgrade for everyone, as ICD-10 codes will only be supported going forward in version 9.0 and higher!

Besides regulatory changes, like the change from ICD-9 to ICD-10, the feedback from you, our customers, is what drives the continuous development of our systems.

Orchard Harvest LIS
- New Send to Host System Rules
- New Sample Tracking
- Expanded Result Delivery Rules
- Enhanced Quality Control
- New Backup Blackout Period

Orchard Pathology
- Web-enabled Access Via the New Orchard® Web AP Module
- Enhanced Grid Cell Options on AP Reports
- Result Evaluation Rules for Formatting Grid Cells
- Result Evaluation Rules for Applying Images and Annotation
- New Sample Tracking

If you have any questions regarding the features of either product, please contact us by phone or through our website at **www.orchardsoft.com**.

Orchard is committed to developing, installing, and supporting the

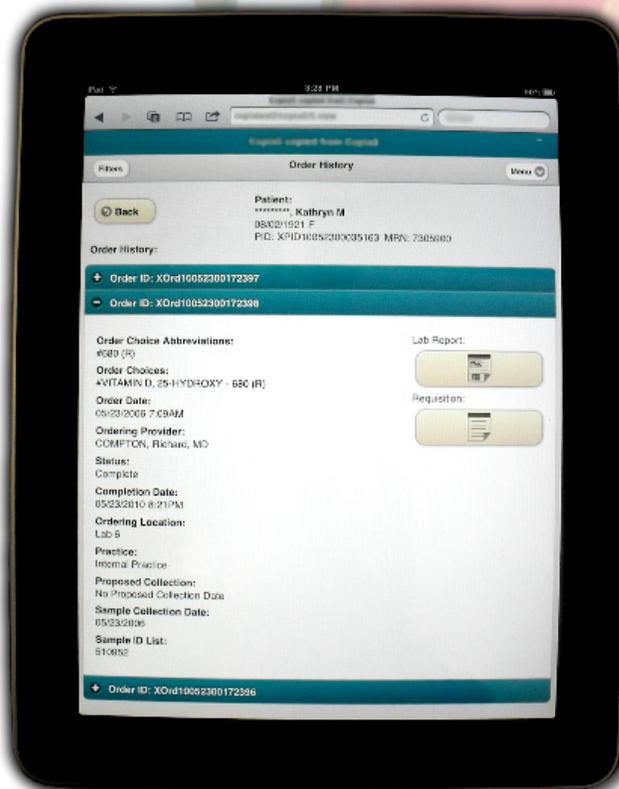# Copia Mobile

mobile device, only a portion of the columns used in the main Copia application are supported for Orchard Copia Mobile. For your reference, when defining rules in Copia, any columns not supported in the mobile platform will be marked as "Not Supported" on the Column View Rules administration page.

For your convenience, Orchard Copia Mobile automatically includes any supported columns from your active column view rules when it displays information. No other administrative or configuration changes are necessary! If you would like to alter which columns appear in the mobile view of a page, simply mark columns as included or excluded using the Mobile Display Setting on the Column View Rules administration page in Copia.

By default, Orchard Copia Mobile uses the first column in your column view rule as the expandable header by default. If you would like to change which column is your header, set the column as the "Primary Column," and it will be displayed at the top when viewing Copia on a mobile device, regardless of where it appears on the page when viewing Copia using a standard web browser.

As you can see, the Order History page shown here uses Order ID as the primary column, and it includes the Order Choice Abbreviations, Order Choices, Order Date, Ordering Provider, Status, Completion

Date, Ordering Location, Practice, Proposed Collection, Sample Collection Date, and Sample ID List columns.

Using Orchard Copia Mobile with the Patient Portal

If you are also using the Patient Portal module, then you may use Orchard Copia Mobile to enhance patients' access to their results from mobile devices. When both modules are in place and patients sign in from a mobile device, they are taken directly to the Order History page to find and review the results that have been released to them.

As with the standard view of Copia, they will not be able to navigate anywhere else in the system. If they choose to click the Full Site button to access Copia, then they will be able to access and use the Patient Portal as they would from any web browser.

Announcing Orchard® Trellis™: Our New Product for Integrating Remote POC Testing

Version 9.0

very best laboratory information systems, and this commitment includes regular software upgrades at no charge. Regular upgrades provide you with the necessary features for regulatory requirements and greater flexibility to handle a variety of laboratory workflows and business situations.

Please also note that there are very specific hardware requirements to support this upgrade. You can find our

hardware requirements on our website at **www.orchardsoft. com**. The best rule of thumb is to talk to Orchard's Technical Support staff as you begin planning for your upgrade. This will ensure that you have the appropriate hardware and are ready for your upgrade. We all hope you are as excited as we are about Orchard Harvest LIS and Orchard Pathology version 9.0! 🍎

Orchard's 2012 Trade Show Calendar

Date	Name	Location
5/30-5/31/2012	ACHA Annual Meeting	Chicago, IL
7/17-7/19/12	Clinical Lab Expo/AACC	Los Angeles, CA
9/9-9/12/12	CAP 2011 - The Pathologists Meeting	San Diego, CA
9/12-9/13/12	AAPA - Pathologists Assistants Show	Miami, FL
10/2-10/4/2012	Orchard Symposium 2012	Indianapolis, IN