

WindoPath®

Anatomic Pathology Information System



Psyche Systems Corporation





The Anatomic Pathology Information System designed by, and for, Pathology Labs

WindoPath is a highly advanced, full-featured anatomic pathology information system with a modular, customizable design. This design allows it to quickly and easily adapt to the specific needs of laboratories of all sizes and testing capabilities, including hospitals, private pathology groups, commercial labs, physician office labs, cytogenetics and molecular labs.

For over 30 years, Psyche has delivered information systems designed exclusively for the pathology laboratory, pioneering many of the industry's leading technology innovations. Psyche developed the first client-server computing model for an AP system, integrated word processing for easier report creation and image management, interactive voice for Pap cases, a hosted software delivery model, and hybrid clinical/AP reporting capabilities.

WindoPath is available as a robust, standalone anatomic pathology system, or as part of a completely integrated laboratory suite. Psyche Systems' LabWeb LIS and SBB blood bank system integrate seamlessly with WindoPath just as WindoPath integrates with any legacy information system. WindoPath's revolutionary Clinical Information Module provides the pathologist with a complete picture of the patient's condition. It allows the pathologist to view all of the clinical and anatomic pathology results associated with a particular case, whether that lab is using LabWeb, another LIS, or interfacing clinical instruments directly to WindoPath.

WindoPath is a complete, fully customizable Anatomic Pathology System that is easily integrated to other systems.

WindoPath's true relational database supports quick, easy statistical analysis of your clinical, pathology and molecular data.

With hosted WindoPath, laboratories are able to realize a high return on investment by enhancing their services, while maximizing their existing IT resources.

Advanced Modules

Psyche Systems' customer-guided product development process and WindoPath's high-level of customization provide laboratory staff with advanced functionality and greater ease-of-use. WindoPath's ability to be customized means that the AP system adapts to the lab environment, not vice versa as is the case with other systems.

Web-based Outreach

WindoPath's e.reports and e.orders modules enable the lab to securely connect with the physicians it serves. e.reports gives the clinician faster access to patient care information, while enabling the lab to streamline report distribution, improve efficiency and turnaround time. Physicians quickly access completed reports from a secure, lab branded Web page using any PC. Physicians can print reports from e.reports for easy information sharing and record keeping.

Similar to e.reports, e.orders enables physicians to quickly and easily place test orders online through a secure Web page. Each physician can customize his/her own online order form for the most commonly ordered tests, and then track orders online to confirm the specimen has been received and processed by the lab. Because patient information is entered into the system directly from the physician's office, e.orders minimizes the potential for clerical and billing errors providing improved accuracy and reimbursements.

EMR Internet Interface

With a dynamic, internet interface between facilities, physician groups, hospitals, offices, etc. – users are able to facilitate automated processing of tests, search for orders, view and save results. All of this through secure, web access – at less than half the cost of other industry EMR interfaces.

Pathology Results Retrieval

Select how many days back to search for cases: 1800

Reverse click on a column to sort. Shift+reverse click to sort backward. Drag columns to reorder.

Name	Reg #	Case	Status	Patient #	Visit #	DOB	E.O.
CLARK, TAMM LEE	02005-00010	02005-00010	In Progress	01	010000	1933-10-31	
CLARK, MARIAN	02005-00012	02005-00012	In Progress	23	0097014520050000	1953-08-13	
KATHERIDGE, VOLANDEA	02007-00007	02007-00007	Complete	12	011113	1941-10-03	
JASPER, PEARL	02007-00014	02007-00014	Complete	57	010020	1944-08-23	
JENNIFER, CELIA	0070001-00014	0070001-00014	Complete	44	010700	1943-04-23	
KAYE, TRAVIS	02005-00013	02005-00013	In Progress	108	1121127	1977-08-10	
KAYE, MARY	02005-00014	02005-00014	In Progress	054	041000	1967-03-14	
KASPER, WEA	02007-00015	02007-00015	Complete	58	010000	1954-09-21	
KEARNAN, ERIN	02005-00014	02005-00014	Complete	25	000016	1948-05-28	
KAPINSKI, JENNIFER	02005-00017	02005-00017	Complete	19	000000	1968-01-23	
KAPINSKI, JENNIFER	02005-00017	02005-00017	In Progress	18	000000	1968-01-23	
KIM, KIM LEE	02007-00013	02007-00013	Complete	55	010000	1938-07-13	
MELANIE, MARY	02005-00016	02005-00016	Complete	103	105116010	1937-11-07	
MULLA, MARY	02007-00020	02007-00020	Complete	10	011001	1963-08-26	
MULLA, MARY	02005-00017	02005-00017	Complete	10	112112	1963-08-26	
SMITH, MICKIE BEE	02005-00013	02005-00013	In Progress	24	006753	1949-09-10	
QUINN, VOLANDEA	02007-00019	02007-00019	Complete	77	010000	1929-05-31	
THOMPSON, MATTHEW B	00005-00047	00005-00047	Complete	58	100400	1949-10-24	

Enter JOHN J. JONES or JONES, JOHN J or JONES as JON or 123-45-6789

Click on cases above to select and download.

Click to perform operation on all selected cases:

Click to perform ordering:

WindoPath's Features Include:

- » Easy, automatic image capture
- » Clinical data tables – custom and pre-defined
- » Synoptic reporting
- » Interfaces to instruments, devices and other information systems
- » Full audit trail and regulatory compliance
- » Automatic charge capture
- » Integrated word processing for easier report creation and image management
- » Interactive voice for Pap cases
- » Hosted software delivery model is available
- » Hybrid clinical/AP/Molecular reporting capabilities



Cost Savings & Faster Turnaround Times



WindoPath's flexibility makes it very easy to use because it adapts to the laboratory's workflow and enhances collaboration.

Improve patient care

VoxPap

Vox Papuli (VoxPap) enables pathology labs to take advantage of “conversational computing” for completing GYN Pap cases. VoxPap works with WindoPath to allow cytotechnologists to interact with the computer through a series of voice commands to complete cytology cases. With VoxPap, cytotechs can make a voice record of their observations, verify data and sign out the case all with the use of a lightweight, cordless headset. By allowing the tech to focus exclusively on the specimen, VoxPap eliminates the need to perform time-intensive reviews of the specimen data and minimizes the potential for human error.

Psyche, as a market leader in innovation, holds the patent for conversational computing in pathology labs with our VoxPap solution.

Clinical Information Module

With the click of a button, WindoPath's Clinical Information Module allows the pathologist to view all the clinical results associated with a particular patient from any LIS, then simply pull the appropriate data into the final report. The lab can also pre-select clinical results to be automatically added to a designated section of the report. Access to the patient's clinical test results while reviewing the pathology specimen gives the pathologist a holistic view of the patient's condition. A more refined diagnosis helps the physician determine a more accurate prognosis and the best treatment course.

Efficiency With a High ROI

Management capabilities

WindoPath provides a number of management capabilities that enable the laboratory manager to improve efficiencies in the operations of the lab and its staff to meet specific quality and regulatory guidelines. With robust querying functionality, lab managers can easily create and administer a wide range of quality assurance reports for the entire lab or for specific areas such as cytology, generating statistics on all work performed.

WindoPath also boasts advanced human resource features to allow the lab manager to easily manage staff roles and privileges, and the specific options available to each member's assigned levels. The HR menu is designed to enforce the lab's best practices and facilitate communication with lab staff. For example, an HR user may send a message to a particular user or a broadcast message to all users logged into the system.

Integrated word processing

Psyche designed WindoPath with integrated word processing software purpose-built for the pathology laboratory – giving it the flexibility to accommodate the lab's workflow and a team-centric case management environment (no lock-outs). With integrated word processing, WindoPath provides a complete audit trail and authorization levels for security by role to meet HIPAA privacy and security provisions, and allows the laboratory to easily share information electronically with individuals, departments and organizations. Due to this unique design feature, WindoPath also offers simplified image management, hassle-free formatting, instrument interfacing, and a smaller footprint than other AP systems.

Standard report formats

- » Turnaround times
- » Audit table
- » Histology tracking
- » CLIA compliance
- » GYN automatic follow-up letter creation
- » Date and time stamped and more...

Superior word processing

- » Users don't get locked out of a case when another user is in it as they do with other word processing programs
- » Report formatting fonts are set at the server level. This prevents incompatibility of individual user font settings.
- » Able to conduct text searches in specific sections of the report



WindoPath's superior reporting capabilities produce a high quality product that helps increase customer satisfaction.

True customized reporting is possible, complete with images, charts and graphs.

Gain Control of Your Data

User/Laboratory defined library

With an easily modifiable system library, the laboratory manager and/or the individual users are able to dynamically manage a wide range of elements, including preset definitions, phrases and codes. WindoPath enables the lab to increase efficiency by minimizing keystrokes for common terminology and coding. WindoPath also features standard as well as lab-defined diagnostic dictionaries and ICD9 codes.

WindoPath's 'intelligent' source library allows the automatic assignment of gross description templates, charges, histology, and more. The automation saves valuable transcription and histology time, allowing your lab to improve case turn around time.

Easily customized preferences

WindoPath features literally hundreds of preferences that give the lab total control over how the system runs, and allows users to set individual preferences. Site-wide preferences may also be set to enforce lab policies, like flagging a certain percentage of cases at random for quality control purposes or highlighting cases that have not been signed out for over 72 hours. Preferences adapt WindoPath to the lab's unique workflow and procedures, and allow the lab manager to set default actions that can aid in creating efficiencies and/or error checking, like automatically alerting a cytotech that a previous abnormal Pap exists in the patient's history.

Integration and Third Party Interfaces

Interface engine

With its extensive interfacing capabilities, WindoPath supports full automation, integration with clinical and back office systems, and hybrid reporting. Psyche Systems develops and supports custom interfaces to any commercial or custom HIS, EMR/practice management or billing system that is based on HL7 or an industry standard ASCII delimited format.

WindoPath can process test requests and store results directly from clinical instruments. Psyche Systems has a large library of programmed interfaces, which includes many of the major information systems and instruments available today. And, Psyche's modular interface development process enables fast turnaround on requests for new interfaces.

Billing, instrument and other information systems

WindoPath features automatic capture of CPT codes and billing charges, including separate tracking for professional and technical charges. With automatic charge capture, users can batch sign out cases when appropriate to speed sign out, while accurately billing for each case.

Psyche Systems has strategic relationships with industry leading vendors, providing our customers with seamless end-to-end integrated solutions.



Psyche ranks in the top 2 of all Anatomic Pathology Laboratory solutions and first for "Best Vendor" according to the 2006 KLAS Top 20 Report!*

* www.healthcomputing.com; Top 20: 2006. Best in KLAS – General Market Solutions & Anatomic Pathology Early Data; KLAS Confidential Information ©2006 KLAS Enterprises, LLC. All rights reserved.

Interfaces are also available for various devices and instrumentation:

- » Cassette and slide labelers
- » Barcode devices
- » Immunohistochemistry analyzers and stainers
- » Clinical instrumentation: Flow cytometry, cytogenetics, molecular diagnostics



Connectivity Is The Key To Efficiency, Accuracy and Lower Cost



WindoPath sets the bar for AP system functionality – improving productivity, marketability and reimbursement rates, while minimizing errors.

Lab connectivity

WindoPath allows you to utilize the web to communicate with the physicians and clinicians who use your laboratory services. A system that provides current and integrated functionality will allow physicians to place orders and receive results online. Consider the possibilities for automation, accuracy and streamlined patient care when a laboratory information system, anatomic pathology system, reference labs and instruments are all integrated.

The ability, through technology, to share order and results information directly between WindoPath and the clinician's EMR without the complexity of traditional interfaces now exists! With the emergence of more private pathology practices, more use of instrumentation, and more challenges in growing and maintaining labs' client bases – interfacing has become a necessity.

Today, instrumentation is used to perform this testing. Flow cytometry, HPV testing and IHC staining are just a few of the more common and frequently utilized interfaces available today. By interfacing your laboratory information system with your instruments, you will gain a significant competitive advantage. Cultivating the one-to-one relationship between a lab and the clinician is key to attracting, and retaining, customers.

Customizable Reporting

Custom report creation

WindoPath features extremely flexible, intelligent report creation and formatting. The laboratory can generate an unlimited number of report types and formats for each physician and/or physician group it serves, as well as each pathologist working in the lab. Formatting reports is easy and automatic, controlled by preferences set at either the lab level or by individual system users, and can quickly be modified in real-time to meet specific requests.

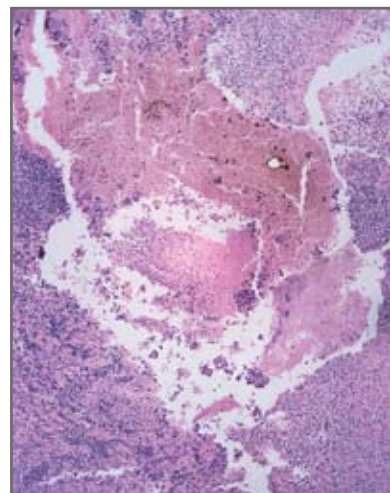
Enhanced report creation options also enable the laboratory to customize the details included in the report to easily add the facility's logo and patient history. Including the patient's previous results, clinical results or entire case history can enhance the value of the diagnosis and aid the physician in determining care options. WindoPath can also automatically generate follow up letters and summary reports to aid the lab in delivering personalized, custom service to its clients.

Image management

Laboratory staff can easily attach digital images from any type of camera to the appropriate case simply by storing the image in a folder provided by WindoPath. Placement and formatting of images within the report is just as easy. Formatting options like wrapping text around the image, adding captions or even pointers to highlight specific areas of the image further enhance the look of the report.

WindoPath's powerful database can easily store any size image produced by a digital microscope in case history, and quickly retrieve images that pertain to a subset of cases for use in patient reports, tumor conferences or as a teaching tool. Standard image types include instrument images, gross images, microscopic images and consult images.





Physicians can use CAP's free reports, available on their Web site, and incorporate them directly within reports in WindoPath. Checked off items print in the report.

Harness Your Data

Synoptic reporting data tables

WindoPath's synoptic reporting can easily create tables that include both pre-defined data and space for variable data. When a case requires tumor staging, a synoptic form can be created or an appropriate table can be selected, allowing the user to enter variable data, such as tumor grade, size, color, etc. The table can then be appended to the final report for printing or data can be electronically shared with the local tumor registry.

It is also possible to search for discreet synoptic elements in the database. For instance, you would be able to find all RUL wedge biopsies with poorly differentiated Adenocarcinoma with lymphatic invasion.

Flexible rules-based report distribution

WindoPath's flexible distribution options allow the laboratory to either automatically schedule and distribute reports or manually release reports, according to the physician's preferred method – via network printer, fax, and online with Psyche's e.reports module. For physicians associated with multiple locations, the lab can automatically distribute the report according to the patient's location. Or, for management reporting, several physicians assigned to the same location can be grouped to report the number of cases sent by a physician group. Reports are stored in XML for easy retrieval and electronic data sharing.

Ancillary test reporting

Ancillary testing, such as Flow Cytometry, cytogenetics, molecular diagnostics and other types of instrument results, can be included in all pathology reports. Each instrument interfaced to WindoPath can be signed out independently and provisional reports released until all ancillary testing is finally completed, at which point a comprehensive report is generated.

Keep Your Customers and Win Your Competitors'

Gaining a competitive edge

WindoPath provides direct access to cataloged tests, facilitating efficiency and speed of processing. This makes it possible for your lab personnel to look up vital information for any test performed by your lab, or sent to a reference lab. Reaching beyond your immediate facility, as well as that of the physicians or healthcare groups that you serve and connecting out to other facilities opens up a world of possibilities.

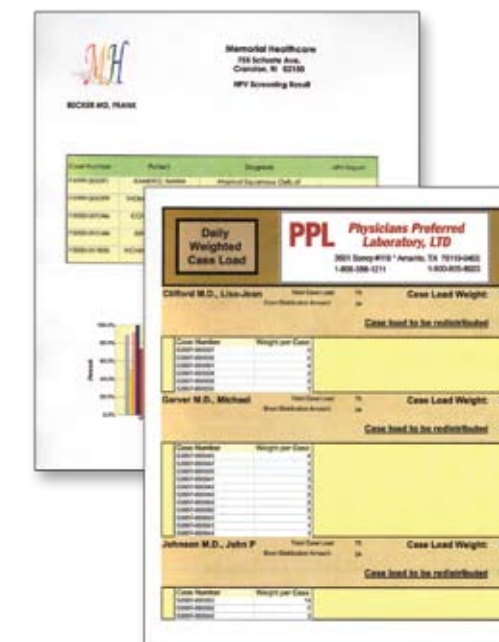
We have developed the systems that are innovative and forward-thinking enough to give you the advantage today as well as to position you for the future.

Fulfilling specific, targeted needs

An ever-increasing number of clinicians are looking for more than just data and boring, static results reports. The ability to provide clinicians with additional information, customized results reports, and the capability to place orders online right from their office is fundamental to servicing, and keeping them in this ever competitive environment.

Equipping the system manager with an integrated toolset that allows him to easily update and customize libraries, medical necessity rules, result interpretations, reference ranges, collection requirements, etc. to stay current with new and evolving tests, regulations and standards will increase accuracy and reimbursement.

Pathologists like their reports in their formats. Physician reports can be what they like to see, where and how they like to see them.



Psyche Systems Corporation

Psyche Systems Corporation is a private, profit-driven software company that has focused exclusively on delivering laboratory information systems to hospitals and clinics since 1976. It is this unwavering focus on serving its core customer base that has enabled Psyche to maintain strong customer loyalty and deliver on its commitment to high quality products and services.

Psyche Systems' laboratory information systems are best-of-breed products designed to meet the specific needs of clinical and anatomic pathology laboratories. Psyche Systems works closely with its customer during product development to ensure it's delivering the highest quality products and services at a competitive price.



Psyche Systems has assembled a talented team of experts from both the healthcare and information technology industries to deliver its world-class information systems for the laboratory environment. Many members of Psyche's training, implementation, support staff and other service professionals are certified medical and cytology technologists who work closely with members of the engineering staff with backgrounds rich in IT network and systems support. Employees bring experience from organizations such as the American Red Cross, SmithKline Beecham (now Quest Diagnostics), as well as Digital Equipment Corporation, International Data Group and Verizon.

Trusted Partner – Psyche Systems has delivered personalized service and high quality products to hospitals and clinics since 1976, helping laboratory environments run more efficiently and cost-effectively. Our client list is extensive and ranges from small, private laboratories to 3 of the 10 largest commercial laboratories in North America.

Customer-guided Innovation

As part of its commitment to high quality products and services, Psyche Systems solicits input from its customers, both informally and formally through its User Symposium and Executive Advisory Group, to ensure greater ease-of-use and advanced functionality by leveraging emerging technologies.

Hosted systems pioneer – Psyche Systems delivered the industry's first hosted LIS in 1998 and continues to lead the market in offering customers low TCO hosted LIS and AP systems that deliver high value.



Psyche Systems Corporation
321 Fortune Boulevard
Milford, MA 01757
800.345.1514
info@psychesystems.com

www.psychesystems.com