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Sifting through anatomic pathology system needs and wants

The usefulness and value of any anatomic pathology system is influenced by developments in countless areas, including cancer protocols, digital imaging, and connectivity, as well as by the marketing efforts of vendors promising new and better features. So how do you separate the wheat from the chaff when selecting new AP system modules or planning an upgrade, and how do you measure the worth of your "improved" system? CAP TODAY asked AP systems experts for their opinions. Here's what they had to say.

CAP TODAY: How should you go about prioritizing new modules or upgrades to an AP system in light of recent industry advances, such as in the areas of cancer protocols, digital imaging, and connectivity with other systems?

John H. Sinard, MD, PhD, director of pathology informatics and associate professor of pathology, Yale University School of Medicine/Yale-New Haven (Conn.) Hospital: Technology can be very alluring. Recognizing this, information systems

vendors frequently move quickly to integrate new technologies into their systems, and they market this integration to attract new customers or new money from existing customers. As a result, many pathol-



Dr. Sinard

ogy departments and groups purchase modules on the assumption that "we must be able to use this for something." They then end up with a feature that is used inconsistently or not at all, or worse yet, that disrupts the existing workflow.

I have found it helpful to use an approach called the "categories of information technology impact"* when evaluating information systems features. The process involves assessing, in your work environment, the expected impact that a new or existing feature is likely to have in five areas: practice management, patient care, education, research, and marketing. The impact in each area can be positive or negative and should be evaluated based on the needs of the department or group.

This type of approach, if performed in advance, helps to manage the group's expectations and resources so the group is not disappointed that a feature failed to address a problem it was never intended to solve.

Walter Henricks, MD, director of the Center for Pathology Informatics, The Cleveland Clinic Foundation: Laboratorians should give high priority to the concept of data exchange because AP systems are increasingly



Dr. Henricks

being called on to exchange data with other health care information systems, such as electronic medical record systems, other laboratory information systems, Web portal servers, and sys-

tems that support tumor registries and state health departments. While such data transfer largely involves reports and results, some labs want to receive requisition information electronically through an interface, which is more difficult than receiving clinical laboratory orders electronically. The need for integration extends beyond electronic data exchange with other computer systems to exchanging data with devices and systems used in the laboratory, such as automated stainers, cassette engravers, and voice-recognition systems.

The ability of AP systems to support molecular pathology testing and integrate the ordering, performance, and reporting of molecular tests into the laboratory and pathologists' workflow is becoming increasingly important. Such tests may have specialized requirements that differ from tests performed in traditional pathology operations. The ability to incorporate cancer protocols into workflow easily is also important, and labs should put flexibility in configuring protocols according to

* Sinard J. Evaluating anatomic pathology information systems. In: *Practical Pathology Informatics: Demystifying Informatics for the Practicing Pathologist*. New York, NY: Springer Science and Business Media; 2006:207–232.



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site-specific preferences and ease of use at the top of their priority list. Other modules, such as voice recognition and imaging, are also useful and should be implemented by labs if such modules fulfill their specific needs.

Hal Weiner, president, Weiner Consulting Services, health care systems consultants, Florence, Ore.: I believe priorities will set themselves due to one of three factors—competition, regulatory requirements, and need to reduce costs. Competition will drive the use of images on re-

ports and online access to pathology reports. Regulations and cost reduction will drive the use of synoptic reporting to comply with cancer protocols. Regulations will



Weiner

also lead labs to implement new connectivity standards for integrating laboratory information systems with electronic medical record systems.

If a pathology practice has little competition, it may have no costjustified reason to implement digital imaging. If the practice is small, manual compliance with cancer protocols may be acceptable, but as volumes increase, the use of structured data and the potential to eliminate the transcription process may drive implementation of synoptic reporting and voice-recognition technologies.

Laboratories that contract with anatomic pathology systems vendors that do not provide a solution for these emerging requirements may want to consider thirdparty vendors, such as mTuitive and Nikon, which offer off-theshelf solutions that integrate with AP systems.

Raymond D. Aller, MD, director, bioterrorism preparedness and response, LA County Public Health Acute Communicable Disease Control, Los Angeles: The most crucial capability, and common concern, is connectivity for transmitting mean-

ingful reports, as well as for receiving orders and billing information. Your AP system may be able to produce a beautifully formatted report with five **Dr. Aller** fonts, a nice table



displaying cancer staging factors, and a photograph of the tumor histology, but what happens when that report is sent to a hospital information system that can display only 72-character, monospaced, uppercase lines of text? How much of the contextual information provided by

the pathologist becomes garbled or is lost on primitive hospital, clinic, physician's office, or other medical records systems?

When designing reports using these newer formatting options, pay careful attention to the capabilities of the systems that will be displaying your work to the clinician.

CAP TODAY: How do you assess improvements in productivity resulting from a new feature added to an existing AP system or in a new AP system?

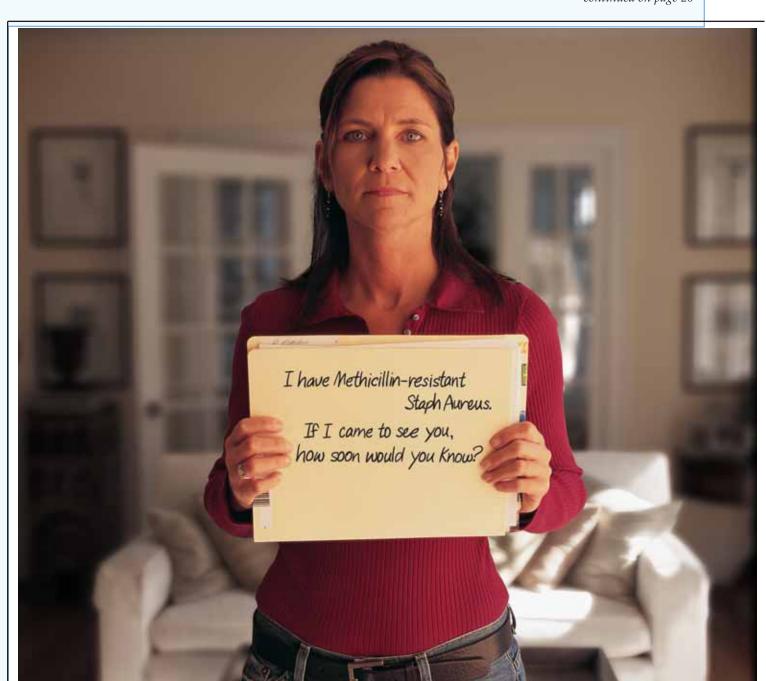
■ Mark Tuthill, MD, division head of pathology informatics, Henry Ford Health System, Detroit: By implementing a new anatomic pathology information system or new system features, a laboratory can significantly improve its workflow and processes, thereby reducing errors and expenses and improving efficiency and overall quality of reporting. I believe that, new or old, AP sys-



Dr. Tuthill Each improve-

ment to a system is measurable and can be monitored through reports on user activities, such as case turnaround time, number and kind of report amendments, and billing errors, as well as by external measures, such as customer satisfaction surveys. When implementing new system features, processes, or workflow, we monitor the success or failure of the change by using such reports or designing new reports to match our need. This information is used to monitor the use and accuracy of system features, as well as to provide mechanisms for analyzing

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AP systems

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the data provided by a system feature. For example, we recently implemented a new feature for recording intraoperative consultation (frozen section) data entry and quality assurance. We monitored our progress by routinely running reports for completion of the required information, completion of the quality assurance data, and number of amendments, in addition to routine practice reports. This allowed us to check that the feature was being used, and being used correctly, as well as to identify user error and resulting training requirements.

While information derived from data reports is critical, we also engage clinical personnel, such as pathologists, pathologist assistants, and transcriptionists, in implementation decisions and processes. The feedback and insight provided by those using the AP system are critical to successful deployment. In addition to holding working meetings prior to, during, and following implementation, we have found it helpful to have informatics staff in the clinical areas as systems are being tested and activated. This provides us with a real-life perspective on how systems are being used and allows us to implement training for crucial areas.

The successful deployment of a new system or feature often comes down to user acceptance and training. Great systems only work well when people use them successfully.

■ John H. Sinard, MD, PhD: Use caution. Not every feature is intended to improve productivity. Some may be adopted for patient care reasons or simply for marketing purposes. (The categories of information technology impact approach, which I introduced in my answer to the previous question, will help clarify this.)

Implementing new features in an AP system often requires modifications to practice workflow. It can be difficult to determine whether any changes in productivity should be attributed to the feature or to the change in workflow. It may be possible, in your practice, to compare adopters to nonadopters. However, this has to be tempered with the understanding that not everyone does the same job. In a subspecialty practice model, if all of the adopters are in a single subspecialty, such as dermatopathology, it makes no more sense to compare dermatopathology to hematopathology productivity after the new feature is implemented than it did before. Nonetheless, despite the inability to systematically assess whether a feature is worthwhile or not, most people will be able to formulate a fairly accurate subjec-

Users of the new feature should hold a formal discussion approximately three weeks after implementation, and again at approximately two months. This gives the group time to tweak the feature and to get used to any new workflow requirements. If people are happier after implementation, even if this is only a perceived improvement, then adding the feature was probably worth the

time and expense.

Raymond D. Aller, MD: When choosing and configuring a new AP system, the ability to improve productivity should outweigh flashy features. Be aware that moving to a new AP system may cause a decline in productivity. Traditional measures to assess productivity include numbers of reports typed per day per transcriptionist and number of cases signed out per hour per pathologist.

My experience has shown that graphical user interface features, such as heavy use of a mouse, typically decrease the productivity of frequent system users, such as transcriptionists—requiring their hands to leave the keyboard to "mouse around" slows them down. Therefore, anyone in the market for an AP system should ask vendors if their systems provide hot keys and macros to avoid mouse use.

Assessment should also include the subjective reaction of system users, particularly those on the front line. A couple of months after your lab has begun using its new system or features, ask your least technology-savvy pathologist what the new features have done to his or her productivity. If they didn't boost the pathologist's productivity, then you may have not only wasted your money but also raised the cost of operating your laboratory, resulting in a negative return on investment.

■ Hal Weiner: To calculate productivity and return on investment in new technology and to calculate process improvement, it is imperative to have quantitative baseline metrics from before implementation. The lab can then compare these to results after implementation.

Defining each expected outcome initially is the first step. Whether the goal is to reduce turnaround time, eliminate specific costs, or improve client satisfaction, it needs to have measurable components. One can easily create a model to calculate break-even time frames and return on investment. Laboratories can also conduct surveys of client and employee satisfaction before and after implementation to measure qualitative and quantitative results.

■ Walter Henricks, MD: New features may allow a laboratory to accommodate an increase in volume while maintaining current staffing levels. Productivity is only one dimension of value creation, however, and how to create value may be a more appropriate question. For instance, does the feature or function enhance your ability to attract new clients and maintain current ones? Does the feature provide a more effective method for reporting results, and thus improve patient care?



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Anatomic pathology computer systems

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Part 1 of 13	Aspyra (formerly CCA) Bill Blair sales@ccainc.com	Cerner Corp. Julie Brookings julie.brookings@cerner.com
See accompanying article on page 18	26115-A Mureau Rd., Calabasas, CA 91302 800-437-9000 www.ccainc.com	2800 Rockcreek Parkway, Kansas City, MO 64117 816-201-6455 www.cerner.com
Name of anatomic pathology system	CyberPath	Cerner Millennium Anatomic Pathology
First ever AP system installation/most recent AP system installation	2000/2005	1982/2005
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	24 (16/3/3/2/0) 2	111 (101/1/1/8/0) 30
No. of sites operating AP system Percentage of installations standalone	24 0	179 16%
Staff to develop-install-support-other**		
 In entire company In LIS division (including AP)/in AP systems only 	20-6-20-35 10-3-14-35/4-3-14-35	1,360-2,075-871-2,200 73-75-43-33/—
No. of interactive terminals (user workstations) in sites operating system	2–250 (ave.,160)	10–400+ (ave., 10–20)
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	3,000–200,000 3,000–10,000	5,000–100,000 2,500–100,000
Central hardware or service type	HP/Compaq, IBM RS/6000	Compaq, IBM RS/6000
Terminals/workstations or PC platform Innovative peripherals	PC workstations voice dictation enabled, image capture/storage, report/image access†	Intel Pentium image enabled, Web enabled, bar codes, cassette labeler, slide labeler
Network installation required?/networks supported Programming language(s)	yes/ LAN, WAN, TCP/IP MicroFocus Cobol, Dialog, C, Visual Basic	yes/LAN, WAN, TCP/IP, Unix Visual C++, Visual Basic, Java
Databases and tools used	ODBC compliant	Oracle
Word processor(s) used Operating system(s)	MS Word SCO Unix, AIX	MS Word, Visual Writer Open VMS, AIX, Windows 2000, NT, XP
Features (listed as a percentage of live installs or based on availability)		
Surgical pathology information system	100%	100%
Cytology information system Autopsy information system	30% 100%	90% 80%
Specimen log-in	100%	100%
Entry of block IDs Specimen labels	100% 100%	100% 80%
Histology slide labels	100%	100%
Bar-coded slide labelsHistology worksheets	100% 100%	80% 100%
 Word processing—vendor specific Word processing—standard tools (Word, WordPerfect) 	0 100%	80% 20%
Voice entry of gross description	100%	<5%
Back-end batch voice to text Gross and microscopic images integrated in reports	100% 100%	not available 15%
Electronic signature	100%	100%
Remote printing of completed reports Direct fax reports	100% 100%	80% 80%
Web-based remote inquiry of reports	40%	<5%
Physician Web access for order entry Natural language search capability	30% —	<5% 100%
SNOMED II/SNOMED CT Multi-site or multi-facility-wide area network	not available/25% 25%	50%/not available 40%
Sound-alike retrieval of patient history	available in June 2006	100%
 Autopsy measurements and organ weights Tumor registry reports 	available but not installed 100%	80% 100%
Management reports	100%	100%
 Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotechnologist 	30% 50%	90% 90%
Histology-cytology correlation report	50%	90%
 Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable 	100% not available	90% <5%
HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	80% 80%/100%	integrated 100%/100%
Interface to external billing system	80%	80%
 Partin tables or Gleason score calculations Synoptic reporting 	available in September 2006 available in September 2006	not available 10%
Specimen tracking and retrieval	available but not installed	not available
Client services module Consult management and reporting	40% 30%	installed not available
Software provides indexed field in each test definition for LOINC code?	yes	no
Provide LOINC dictionary for each new installation? No. of installations that use system to automatically transfer	NAACCR format available but not installed/1 in HL7 format	yes 5 in NAACCR format
tumor diagnoses to a tumor registry		
Complete AP application service provider solution? Method of charging for ASP service	no 	yes fixed fee
Client software required	_	requires software be instaled on a client PC
ASP information conduit Client contracts supported from data center not operated by client		requires use of private, dedicated circuit 100+
How data center is operated	_	by vendor
Other information systems interfaced	Misys, McKesson, IDX, QuadraMed, Siemens, Meditech, others	Cerner, Eclipsys, Epic, McKesson, IDX, Siemens, TDS
Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced	Dragon Naturally Speaking none	Dragon Medical Suite is compatible Shur/Mark, Thermo Shandon cassette and slide labelers
User interface in language other than English?	no	yes (German)
Source code?/user group? User can modify screens?	escrow/yes no	escrow/yes (meets online as well) yes
Cost (hardware/software/installation and training/monthly maintenance)		
Smallest stand-alone system Largest stand-alone system	Ξ	
Base price of integrated system, excluding AP configuration	-	-
Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration		=
Distinguishing features (supplied by vendor)	integrated with CyberLab LIS; flexible workflow from processing,	comprehensive, integrated single system for all lab departments
	transcription, and sign-out, with system decision support rules	 over 25 years in the LIS industry, with proven scalability and
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	 unlimited access to database for customized reports and standard statistical reports 	 performance continued innovations in LIS, including genomics, molecular testing
C or GP=clinics or group practices in U.S., FI=foreign installations, US=other sites **other=sales, marketing, administration, and other company functions	† via Web gateway	and patented synoptic reporting

 $\label{thm:constraint} \mbox{Tabulation does not represent an endorsement by the College of American Pathologists.}$

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

Anatomic pathology computer systems

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	Part 2 of 13	Cerner DHT Inc.	Clinical Information Systems Inc.
	See accompanying article on page 18	Michele Connors mconnors@cerner.com 2 University Office Park, 51 Sawyer Rd., Waltham, MA 02453 816-885-4818 www.cerner.com	Angela Woolley cissupport@aol.com 18805 Willamette Drive, West Linn, OR 97068 800-869-0680 www.cislab.com
ŀ	Name of anatomic pathology system	CoPathPlus	Cislab CPS
ľ	First ever AP system installation/most recent AP system installation	1982/2005	1988/2004
	No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	163 (136/21/0/5/1)	20 (1/18/1/0/0)
	No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005 No. of sites operating AP system	10 326	1 _
	Percentage of installations standalone	100%	60%
	Staff to develop-install-support-other** • In entire company	1,360-2,075-871-2,200	6 total
	In LIS division (including AP)/in AP systems only	—/15-23-23-5	6 total/6 total
		1–1,000 (ave., 50) 3,000–350,000	1–100 (ave., 15) 2,500–115,000
		2,000–330,000	3,000–300,000
		IBM RS/6000, Intel Pentium, Sun Solaris, Dell, Compaq	DEC, HP, IBM, generic PCs, Dell, Compaq
	Terminals/workstations or PC platform Innovative peripherals	Intel Pentium, Citrix through client, Dell, Compaq voice enabled, image enabled, bar-code scanners, cassette labelers, slide	generic PCs, Wyse 60, Link WORM drive, HP scanners, Philips, optical disks
		labelers, printers, stain slider interface, Web-enabled report access	
	Network installation required?/networks supported Programming language(s)	yes/LAN, WAN, TCP/IP, Novell, Microsoft PowerBuilder, C++	yes/LAN, Unix, TCP/IP Delphi, Cobol, C++, Visual Basic
		MS SQL, Sybase	Interbase, RDBMS, C-ISAM, MS SQL 7
		MS Word, TX Text Control (Visual Writer)	WordPerfect tools, MS Word
	Operating system(s)	Windows 98, 2000, 2003, XP, AIX, Unix	Windows 95, 98, NT 3.51, NT 4.0, NT 2000, SCO Unix
	Features (listed as a percentage of live installs or based on availability)	1000/	1000/
	 Surgical pathology information system Cytology information system 	100% 100%	100% 100%
	Autopsy information system	75%	5%
	Specimen log-in	100%	100%
	Entry of block IDs Specimen labels	100% 100%	100% 100%
	Histology slide labels	100%	100%
	Bar-coded slide labels Histology worksheets	15% 100%	100% 100%
	Word processing—vendor specific	45%	5%
	Word processing—standard tools (Word, WordPerfect)	55%	100%
	Voice entry of gross description Back-end batch voice to text	10% not available	5% not available
	Gross and microscopic images integrated in reports	20%	5%
	Electronic signature	100%	100%
	Remote printing of completed reports Direct fax reports	2% 95%	100% 100%
	Web-based remote inquiry of reports	2%	20%
	,	not available	20%
	Natural language search capability SNOMED II/SNOMED CT	100% 95%/5%	not available available but not installed
	Multi-site or multi-facility-wide area network	30%	1%
	Sound-alike retrieval of patient history Autopsy measurements and organ weights	not available	not available
	Tumor registry reports	not available 100%	5% 100%
	Management reports	100%	100%
	 Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotechnologist 	100% 100%	100% 100%
	Histology-cytology correlation report	100%	100%
	Reports sufficient to comply with CLIA '88 regulations	100%	100%
	Comprehensive billing and accounts receivable HIS interface: A/D/T	not available 95%	50% 10%
	HIS interface: result reporting/incoming clinical results	95%/available but not installed	10%/10%
	Interface to external billing system	95%	50%
	 Partin tables or Gleason score calculations Synoptic reporting 	not available 17%	10% not available
	Specimen tracking and retrieval	not available	not available
		not available 90%	100% not available
	 Consult management and reporting Software provides indexed field in each test definition for LOINC code? 	no	
		no	yes no
	No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	3 in NAACCR format/1 in HL7 format	none
ŀ	Complete AP application service provider solution?	yes	no
	Method of charging for ASP service	fixed fee	-
	·	requires software be installed on a client PC requires use of private, dedicated circuit	
	Client contracts supported from data center not operated by client	2 by vendor	_
-	Other information systems interfaced	Cerner, Eclipsys, Epic, McKesson, IDX, Siemens, TDS, Meditech, Keane	Medical Manager, McKesson, Dairyland, PCN, Reynolds & Reynolds,
	·		Praxis, LabCorp
	Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced User interface in language other than English?	Dragon, Clinical Reporter Shur/Mark, Thermo Shandon cassette labelers, Leica, Sakura, Ventana no	none none no
	Source code?/user group?	escrow/yes (meets online as well)	escrow/no
	User can modify screens?	yes	no
	Cost (hardware/software/installation and training/monthly maintenance) • Smallest stand-alone system	_	\$10k/\$7.5k/\$5k/\$0.3k
	Largest stand-alone system	_	\$100k/\$100k/\$20k/\$2.5k
	Base price of integrated system, excluding AP configuration	_	-
	 Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration 	-	_
ŀ	Distinguishing features (supplied by vendor)	andrews Gordelline to all and a second of	annidae aliankiraan anda kanada animakiraan animakiraa
	*H=U.S. hospitals, IL=independent labs in U.S.,	 extreme flexibility to clients' workflow and report formats advanced imaging and synoptic reporting capabilities 	 provides client/server point-and-click access for pathology and cytology easy to learn and use at an efficient cost
	C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	outstanding dedicated support	easily integrated into an existing network environment
L	onio saros, markoning, aanimistration, and other company functions		

Anatomic pathology computer systems

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Part 3 of 13	Computer Trust Corp.	Cortex Medical Management Systems Inc.
See accompanying article on page 18	David Liberman, MD info@ctcsurge.com 1 State St., Boston, MA 02109-3507 617-557-9264 www.ctcsurge.com	Stanley Gordon sgordon@cortexmed.com 2001 Western Ave., Ste. 410, Seattle, WA 98121 206-812-6981 www.cortexmed.com
Name of anatomic pathology system	WinSurge	The Gold Standard
	1000/2005	1007/2005
First ever AP system installation/most recent AP system installation No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	1989/2005 67 (31/15/0/0/21†)	1986/2005 49 (20/29/0/0/0)
No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	8	5
No. of sites operating AP system Percentage of installations standalone	82 100%	61 33%
Staff to develop-install-support-other**	100 //	
 In entire company In LIS division (including AP)/in AP systems only 	confidential confidential	4-2-2-4 4-2-2-4/4-2-2-4
No. of interactive terminals (user workstations) in sites operating system Range in No. of surgical pathology cases per year in sites operating system	5-3,000 (median, 30) 5,000-300,000	3–63 (ave., 25) 50–70,000
Range in No. of gynecologic cytology cases per year in sites operating syst.		50–120,000
Central hardware or service type	Windows, Unix, others	any Windows compatible
Terminals/workstations or PC platform	Windows PCs, Citrix, Web, VPN, Telnet terminals	any Windows compatible
Innovative peripherals	multiple automated report delivery modes, comprehensive imaging, consult and requisition document management, others	TWAIN-compliant image capture, optical and mark sense readers
Network installation required?/networks supported	user's option/LAN, WAN, TCP/IP, Unix, Windows	yes/TCP/IP
Programming language(s) Databases and tools used	Visual Basic, Caché, others Caché, SQL, Crystal Reports, Excel	Visual Basic MS SQL server
Word processor(s) used	MS Word/RTF text, plain text	MS Word
Operating system(s)	Windows 2000, 2003, XP Professional, Unix, others	Windows 2000, XP, 2003
Features (listed as a percentage of live installs or based on availability)		
Surgical pathology information system Cytology information system	100% 83%	95% 95%
Autopsy information system	58%	50%
Specimen log-in Entry of block IDs	100% 100%	100% 80%
Specimen labels	100%	80%
Histology slide labels	100%	80%
Bar-coded slide labels Histology worksheets	24% 100%	20% 95%
Word processing—vendor specific	100%	0
Word processing—standard tools (Word, WordPerfect) Voice entry of gross description	100% 19%	95% 0
Back-end batch voice to text	19%	0
Gross and microscopic images integrated in reports Electronic signature	77% 83%	20% 90%
Remote printing of completed reports	48%	90%
Direct fax reports Web-based remote inquiry of reports	76% 56%	60% 25%
Physician Web access for order entry	47%	available but not installed
Natural language search capability SNOMED II/SNOMED CT	100% 12%/available but not installed	5% 40%/0
Multi-site or multi-facility-wide area network	74%	20%
Sound-alike retrieval of patient history Autopsy measurements and organ weights	100% 58%	10% 20%
Tumor registry reports	100%	80%
Management reports Cytology abnormal—unsatisfactory list to doctors	100% 83%	100% 60%
Cytology diagnostics statistics by pathologist or cytotechnologist	83%	90%
Histology-cytology correlation report Reports sufficient to comply with CLIA '88 regulations	83% 100%	90% 100%
Comprehensive billing and accounts receivable	not available	35%
HIS interface: A/D/T HIS interface: regult reporting /incoming clinical regults	29%	20%
HIS interface: result reporting/incoming clinical results Interface to external billing system	29%/available but not installed 27%	20%/0 10%
Partin tables or Gleason score calculations Smooth annual transport of the second score calculations	29%	5%
Synoptic reporting Specimen tracking and retrieval	100% 100%	15% 100%
Client services module	100%	0
Consult management and reporting	100%	60%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	yes no	no no
No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	34% in NAACCR format	7 in NAACCR format/3 in HL7 format
Complete AP application service provider solution?	no	VAS
Method of charging for ASP service	no —	yes fixed fee
Client software required ASP information conduit	_	requires software be installed on a client PC
Client contracts supported from data center not operated by client	_	operates over the Internet 2
How data center is operated	<u> </u>	by a third-party (AD Host)
Other information systems interfaced	Siemens, McKesson, TDS, Data Gate, HDS, IDX, Provation, Misys, CPSI, others	Cerner, McKesson, Meditech, Siemens, SCC Soft Computer
Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced	Dragon Naturally Speaking Professional Shur/Mark cassette labelers and slide etchers	none none
User interface in language other than English?	yes (custom offering)	no
Source code?/user group? User can modify screens?	escrow (user's option and expense)/yes yes	escrow/yes (meets online as well)
Cost (hardware/software/installation and training/monthly maintenance) • Smallest stand-alone system	\$10k/\$25k/\$10k/\$0.5k	<\$1k/\$50k/\$20k/\$1k
Largest stand-alone system	\$100k/\$2m+/\$1m+/\$25k+	\$75k/\$500k/\$200k/\$7k
Base price of integrated system, excluding AP configuration Incremental cost to add smallest AP configuration 	0 \$10k/\$25k/\$10k/\$0.5k	\$80k \$1k/\$2.8k/\$1.4k/\$0.5k
Incremental cost to add largest AP configuration	\$100k/\$2m+/\$1m+/\$25k+	\$1k/\$2.8k/\$1.4k/\$0.5k
Distinguishing features (supplied by vendor) *H=U.S. hospitals, IL=independent labs in U.S.,	top AP LIS for over 15 years optimizes laboratorians' responsiveness to clients, departments, and outreach exceptional customer satisfaction and retention	secure delivery system for order entry and results reporting reflex testing for linking HPV/DNA probe cases to Pap on-site installation and training of all staff, with most rapid installs in industry
C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	• exceptional customer satisfaction and retention	

Anatomic pathology computer systems

		to pathology compater	
	Don't 4 of 12	EasyPath Software	eTeleNext Inc.
	Part 4 of 13 See accompanying article on page 18	Selig Leyser, MD seligl@comcast.net 2551 103rd SE, Beaux Arts, WA 98004	Joseph Nollar sales@etelenext.com 28570 Marguerite Parkway, Ste. 222, Mission Viejo, CA 92692
-	Name of anatomic pathology system	425-455-9012/425-899-2565 http://homepage.mac.com/seligL/easypath/	949-365-0952 www.etelenext.com AP Anywhere
-	Harrie of anatomic patriology system	Ludyi dili	74 741ymore
	First ever AP system installation/most recent AP system installation No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	1992/2004 8 (6/1/1/0/0) 0	2004/2005 5 [†] (0/4/1/0/0) 5
	No. of sites operating AP system Percentage of installations standalone	5 100%	5 80%
	Staff to develop-install-support-other**	10070	0070
	In entire company In LIS division (including AP)/in AP systems only	2 total —	6-2-2-5 5-2-2-0/5-2-2-0
ľ	No. of interactive terminals (user workstations) in sites operating system	5–12 (ave., 10)	1–60 (ave., 20)
	Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	8,000–100,000 100–100,000	3,000–75,000 3,000–75,000
	Central hardware or service type	Windows PC or Macintosh	IBM, Dell, Compaq
	Terminals/workstations or PC platform Innovative peripherals	Windows PC or Macintosh voice input optional, image capture integrated	IBM, Dell, Compaq client-controlled custom report template builder, telepathology, remote order entry and results, auto-fax, digital camera/scanner image interfacing, bar code
-	Network installation required?/networks supported		yes/LAN, WAN, Novell, TCP/IP
	Programming language(s) Databases and tools used	4th Dimension 4D, 4D Write, 4D Compiler	.Net SQL
	Word processor(s) used	4D Write (integrated)	Word
	Operating system(s)	Windows 95 or better, Macintosh OS 9 or better	Windows
-			
	Features (listed as a percentage of live installs or based on availability) • Surgical pathology information system	100%	100%
	Cytology information system	100%	100%
	Autopsy information system	100%	0
	Specimen log-in	100%	100%
	Entry of block IDs	100%	100%
	Specimen labels Windows elide labels	available but not installed	100%
	Histology slide labels Par coded slide labels	available but not installed	100%
	Bar-coded slide labels Histology worksheets	not available 100%	100% 50%
	Word processing—vendor specific	100%	100%
	Word processing—standard tools (Word, WordPerfect)	_	20%
	Voice entry of gross description	available but not installed	available in August 2006
	Back-end batch voice to text	not available	not available
	Gross and microscopic images integrated in reports	25%	100%
	Electronic signature Remote printing of completed reports	50% 100%	100% 100%
	Nemote printing of completed reports Direct fax reports	available but not installed	100%
	Web-based remote inquiry of reports	not available	80%
	Physician Web access for order entry	not available	50%
	Natural language search capability	100%	100%
-	SNOMED II/SNOMED CT	SNOMED-like coding	available but not installed
	Multi-site or multi-facility-wide area network	50%	50%
	Sound-alike retrieval of patient history Autonosy measurements and graph weights	100%	not available
	 Autopsy measurements and organ weights Tumor registry reports 	100% 100%	not available available but not installed
	Management reports	100%	100%
	Cytology abnormal—unsatisfactory list to doctors	not available	20%
	Cytology diagnostics statistics by pathologist or cytotechnologist	25%	20%
	Histology-cytology correlation report	100%	20%
	Reports sufficient to comply with CLIA '88 regulations	100%	100%
	Comprehensive billing and accounts receivable HIS interface: A/D/T	not available not available	20% not available
	HIS interface: result reporting/incoming clinical results	25%/not available	20%/20%
	Interface to external billing system	not available	50%
	Partin tables or Gleason score calculations	available but not installed	50%
	Synoptic reporting	not available	50%
	Specimen tracking and retrieval Client and recommendate	100%	100%
	Client services module Consult management and reporting	not available 100%	100% 50%
-	Consult management and reporting Software provides indexed field in each test definition for LOINC code?	no	yes
	Provide LOINC dictionary for each new installation? No. of installations that use system to automatically transfer	no	no none (but HL7 format available)
	tumor diagnoses to a tumor registry	none	none (put net ionnat available)
	Complete AP application service provider solution?	no	yes fixed for
	Method of charging for ASP service Client software required		fixed fee browser based
	ASP information conduit		operates over the Internet
	Client contracts supported from data center not operated by client	_	1
	How data center is operated	_	by vendor
	Other information systems interfaced	Meditech, Cerner	Cortex, GE Medical (Triple G), Misys, Meditech, Cerner
	Voice-recognition packages integrated with AP system	any (indirectly)	none
	Histology and cytology laboratory instruments interfaced User interface in language other than English?	none no	Beckman Coulter, BD, Chromavision ACIS, FCS Express, Ventana, Aperio, Trestl no
	Source code?/user group? User can modify screens?	escrow (on request)/no yes	escrow/yes (meets online as well) yes
ļ	Cost (hardware/software/installation and training/monthly maintenance)		
	Smallest stand-alone system	\$2k/\$10k/—/—	\$10k/\$120k/\$5k/0
	Largest stand-alone system	\$30k/\$20k/\$2k/—	\$65k/\$120k/\$10k/\$7.5k+
	Base price of integrated system, excluding AP configuration	\$5k	\$145k
	Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration	\$1.5k/\$10k/—/— \$1.5k per workstation and \$2k per conver/\$20k/\$2k/	0
	Incremental cost to add largest AP configuration	\$1.5k per workstation and \$2k per server/\$20k/\$2k/—	0
ľ	Distinguishing features (supplied by vendor)	designed and updated by a practicing pathologist and professional	product branded for client
	- , , , ,	designed and updated by a practicing pathologist and professional programmer	fully customizable
	*H=U.S. hospitals, IL=independent labs in U.S.,	powerful, economical, and flexible	ASP or lab hosted
	C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	inexpensive image capture and integration	†labs privately label application by contract
L			·

Tabulation does not represent an endorsement by the College of American Pathologists.

Anatomic pathology computer systems

	position 3, comparer	
Part 5 of 13	GE Healthcare Information Technologies	Impac Medical Systems Inc.
741.007.10	Larry Wimberly larry.wimberly@med.ge.com	Chad Scribner cscribner@impac.com
See accompanying article on page 18	3100 Steeles Ave. East, Ste. 900, Markham, Ontario, Canada L3R 8T3 905-305-0041 www.gehealthcare.com	100 W. Evelyn Ave., Mountain View, CA 94041 888-464-6722 www.impac.com
Name of anatomic pathology system	Centricty Ultra Laboratory AP	PowerPath (formerly Tamtron PowerPath)
First ever AP system installation/most recent AP system installation	1991/2005	1986/2005
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	34 (9/0/0/25/0)	211 (160/33/14/4/0)
No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005 No. of sites operating AP system	1 55	18 366
Percentage of installations standalone	0	100%
Staff to develop-install-support-other** • In entire company	42,500 total	90-50-81-212
In LIS division (including AP)/in AP systems only	43-33-16-10/3-3-3-0	17-18-19-19/12-10-10-12
No. of interactive terminals (user workstations) in sites operating system	2–50 (ave., 25)	52–400 (ave., 15–30)
Range in No. of surgical pathology cases per year in sites operating system	5,000-250,000	1,500–150,000
Range in No. of gynecologic cytology cases per year in sites operating syst.	1,000–75,000	5,000–350,000
Central hardware or service type	Unix servers–IBM, HP, Sun	Windows 2000 or 2003 server
Terminals/workstations or PC platform Innovative peripherals	Windows XP, 2000, NT voice input, optical storage, bar-code input, image capture and	Windows 2000, 2003, XP modules for image management, Internet inquiry, dermatopathology,
	retrieval, scanning, touch screens	histology automation, enhanced reporting, immunohistochemistry
Network installation required?/networks supported Programming language(s)	yes/TCP/IP, Novell C, C++, Unify Vision	yes/TCP/IP Borland Delphi
Databases and tools used	Unify Data server database, Unify Development tool kit	MS SQL
Word processor(s) used	MS Word Unix	MS Word Windows
Operating system(s)	VIIIA	······································
Features (listed as a percentage of live installs or based on availability) • Surgical pathology information system	100%	100%
Cytology information system	100%	100%
Autopsy information system	50%	100%
Specimen log-in Entry of block IDs	100% 100%	100% 100%
Specimen labels	100%	100%
Histology slide labels Bar-coded slide labels	100% installed	100% installed
Histology worksheets	75%	100%
 Word processing—vendor specific Word processing—standard tools (Word, WordPerfect) 	not available 100%	100% 100%
Voice entry of gross description	5%	installed
Back-end batch voice to text	available but not installed	not available
Gross and microscopic images integrated in reports Electronic signature	available but not installed 100%	25% 100%
Remote printing of completed reports	100%	100%
Direct fax reports Web-based remote inquiry of reports	75% 10%	100% 15%
Physician Web access for order entry	available but not installed	not available
Natural language search capability SNOMED II/SNOMED CT	not available 75%/available in 2006	100% 100%/100%
Multi-site or multi-facility-wide area network	75%7aVallable III 2000 75%	100%
Sound-alike retrieval of patient history Autonomorphism and approximately	not available	100%
Autopsy measurements and organ weights Tumor registry reports	50% 15%	100% 100%
Management reports	100%	100%
Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotechnologist	60% 60%	100% 100%
Histology-cytology correlation report	100%	100%
Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable	75% 90%	100% 100%
HIS interface: A/D/T	100%	100%
HIS interface: result reporting/incoming clinical results Interface to external billing system	100%/10% 80%	100%/not available 100%
Partin tables or Gleason score calculations	not available	100%
Synoptic reporting Specimen tracking and retrieval	30% 30%	installed
Specimen tracking and retrieval Client services module	installed	85% 100%
Consult management and reporting	100%	85%
Software provides indexed field in each test definition for LOINC code?	yes	no
Provide LOINC dictionary for each new installation?	no	no
No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	5 in HL7 format	17 in HL7 format
Complete AP application service provider solution?	no	no
Method of charging for ASP service	-	-
Client software required ASP information conduit		_
Client contracts supported from data center not operated by client How data center is operated	Ξ	Ξ
	IDV Mel/seen Committee B. C. C. T. "	Fellow Company Mills Character May 1 200 71 1 1 1
Other information systems interfaced Voice-recognition packages integrated with AP system	IDX, McKesson, Siemens, Meditech, Per-Sé, Cerner, Eclipsys, Compucare Philips SpeechMagic	Eclipsys, Cerner, Misys, Siemens, McKesson, Meditech, SCC, Phamis, ID. —
Histology and cytology laboratory instruments interfaced	Shur/Mark, Lamb, Leica	Shur/Mark, Shandon, Leica, Sakura, Ventana
User interface in language other than English?	no	no
Source code?/user group? User can modify screens?	escrow/yes (meets online as well) no (available in upcoming version)	escrow/yes no
Cost (hardware/software/installation and training/monthly maintenance)		
Smallest stand-alone system	\$50k/\$150k/\$125k/\$3.5k	-
Largest stand-alone system Base price of integrated system, excluding AP configuration	\$500k/\$2m/\$600k/\$25k \$600k	_
Incremental cost to add smallest AP configuration	n/a/\$40k/\$40k/\$0.6k	_
Incremental cost to add largest AP configuration	n/a/\$1m/\$200k/\$15k	_
Distinguishing features (supplied by vendor)	designed for multi-site laboratory, IDN environments fully integrated with all clinical modules, single database design	case-centric workflow nutchanding customer satisfaction
*H=U.S. hospitals, IL=independent labs in U.S.,	fully integrated with all clinical modules, single database design superior commitment to customer care and services	outstanding customer satisfactionAP systems leader
C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions		

Anatomic pathology computer systems

Part 6 of 13	Medical Information Technology Inc. (Meditech)	Medical Information Technology Inc. (Meditech)
See accompanying article on page 18	Paul Berthiaume info@meditech.com Meditech Circle, Westwood, MA 02090 781-821-3000 www.meditech.com	Paul Berthiaume info@meditech.com Meditech Circle, Westwood, MA 02090 781-821-3000 www.meditech.com
Name of anatomic pathology system	Meditech Anatomical Pathology-client/server	Meditech Anatomical Pathology–Magic
First ever AP system installation/most recent AP system installation	1978/2005	1978/2005
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	_† _†	† †
No. of sites operating AP system	176	612
Percentage of installations standalone Staff to develop-install-support-other**		
 In entire company In LIS division (including AP)/in AP systems only 	† †	t t
No. of interactive terminals (user workstations) in sites operating system	5–100+ (ave., 5–10)	5-100+ (ave., 5-10)
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	_t	t
Central hardware or service type Terminals/workstations or PC platform	HP, IBM, Dell only PC workstation supported	HP, IBM, Dell only PC workstation supported
Innovative peripherals	voice input/output, image input/output	voice input/output, image input/output
Network installation required?/networks supported Programming language(s)	yes/LAN, WAN, Novell, TCP/IP Magic programming language	yes/LAN, WAN, Novell, TCP/IP Magic programming language
Databases and tools used	Magic and client/server	Magic and client/server
Word processor(s) used Operating system(s)	MS Word/rich text industry-standard solutions	MS Word/rich text Magic
Features (listed as a percentage of live installs or based on availability)		
Surgical pathology information system	100%	100%
Cytology information system Autopsy information system	100% 100%	100% 100%
Specimen log-in	100%	100%
Entry of block IDs Specimen labels	100% 100%	100% 100%
Histology slide labels	100%	100%
Bar-coded slide labels Histology worksheets	100% 100%	100% 100%
Word processing—vendor specific	100%	100%
Word processing—standard tools (Word, WordPerfect) Voice entry of gross description	100% 100%	100% 100%
Back-end batch voice to text	100%	100%
Gross and microscopic images integrated in reports Electronic signature	100% 100%	100% 100%
Remote printing of completed reports	100%	100%
Direct fax reports Web-based remote inquiry of reports	100% 100%	100% 100%
Physician Web access for order entry	100%	100%
Natural language search capability	100%	100%
SNOMED II/SNOMED CT Multi-site or multi-facility-wide area network	100%/100% 100%	100%/100% 100%
Sound-alike retrieval of patient history	100%	100%
 Autopsy measurements and organ weights Tumor registry reports 	100% 100%	100% 100%
Management reports	100%	100%
 Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotechnologist 	100% 100%	100% 100%
Histology-cytology correlation report	100%	100%
 Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable 	100% 100%	100% 100%
HIS interface: A/D/T	100%	100%
HIS interface: result reporting/incoming clinical results Interface to external billing system	100%/100% 100%	100%/100% 100%
Partin tables or Gleason score calculations	100%	100%
Synoptic reporting Specimen tracking and retrieval	100% 100%	100% 100%
Client services module	100%	100%
Consult management and reporting	100%	100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no no	no no
No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	n/a	n/a
Complete AP application service provider solution? Method of charging for ASP service	no 	no
Client software required	_	_
ASP information conduit Client contracts supported from data center not operated by client How data center is operated	=	Ξ
Other information systems interfaced	Misys, McKesson, Siemens, others	Misys, McKesson, Siemens, others
Voice-recognition packages integrated with AP system	Nuance (ScanSoft) Dragon Naturally Speaking	Nuance (ScanSoft) Dragon Naturally Speaking
Histology and cytology laboratory instruments interfaced User interface in language other than English?	n/a no	n/a no
Source code?/user group? User can modify screens?	yes/yes some	yes/yes some
Cost (hardware/software/installation and training/monthly maintenance)		
Smallest stand-alone system	_	-
Largest stand-alone system Base price of integrated system, excluding AP configuration		Ξ
Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration	Ξ	Ξ
	e over 30 years' experience developing and implementing LICe	• over 30 years/ experience developing and implementing LICs
Distinguishing features (supplied by vendor)	 over 30 years' experience developing and implementing LISs seamlessly share data across departments and facilities 	 over 30 years' experience developing and implementing LISs seamlessly share data across departments and facilities

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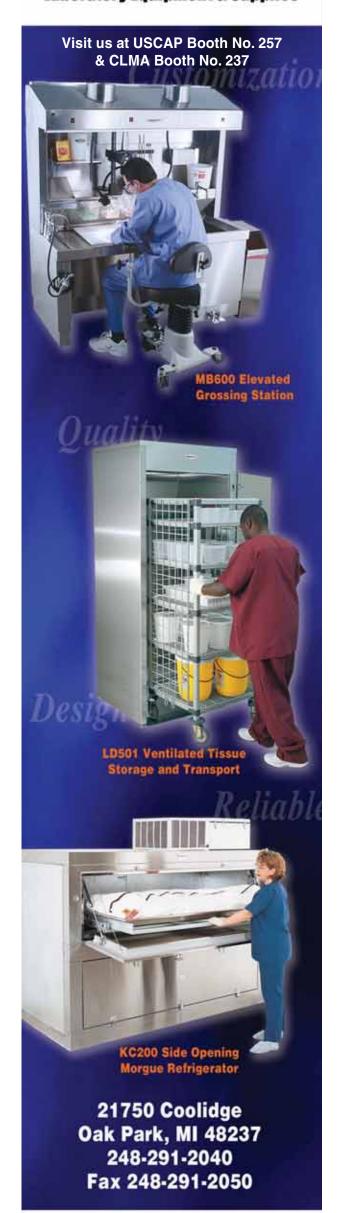
Anatomic pathology computer systems

Part 7 of 13	MediSolution Inc. Soraya Comeau 5015 Airport Pd. Sto. 910 Mississauga, Optario, Capada LAV 1T1
See accompanying article on page 18	5915 Airport Rd., Ste. 810, Mississauga, Ontario, Canada L4V 1T1 905-673-4100/866-467-4636 www.medisolution.com
Name of anatomic pathology system	MediLab Anatomical Pathology/Cytology
First ever AP system installation/most recent AP system installation No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	1974/— 171
lo. of contracts signed between Oct. 1, 2004–Oct. 1, 2005 lo. of sites operating AP system	Ξ
ercentage of installations standalone staff to develop-install-support-other**	40%
In entire company In LIS division (including AP)/in AP systems only	410 total 79-11-13-6/n/a
lo. of interactive terminals (user workstations) in sites operating system	3–95 (ave., 45)
Range in No. of surgical pathology cases per year in sites operating system tange in No. of gynecologic cytology cases per year in sites operating syst.	5,000–65,000 2,500–140,000
entral hardware or service type erminals/workstations or PC platform	Sun, Unix, Linux, Windows, IBM, HP IBM-compatible PC
nnovative peripherals etwork installation required?/networks supported	all Microsoft-compatible image retrieval, voice input/output
rogramming language(s) atabases and tools used	C++
atabases and tools used /ord processor(s) used	SQL, Oracle MS Word
perating system(s)	Windows, Unix, Linux
eatures (listed as a percentage of live installs or based on availability) Surgical pathology information system	100%
Cytology information system Autopsy information system	90% 85%
Specimen log-in	75%
Entry of block IDs Specimen labels	100% 100%
Histology slide labels	100%
Bar-coded slide labels Histology worksheets	100% 80%
Word processing—vendor specific	not available
Word processing—standard tools (Word, WordPerfect) Voice entry of gross description	100% 10%
Back-end batch voice to text Gross and microscopic images integrated in reports	10% 25%
Electronic signature	95%
Remote printing of completed reports Direct fax reports	100% 100%
Web-based remote inquiry of reports	13%
Physician Web access for order entry Natural language search capability	installed not available
SNOMED II/SNOMED CT	—/55% 200/
Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history	30% not available
Autopsy measurements and organ weights Tumor registry reports	installed 57%
Management reports	100%
Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotechnologist	installed installed
Histology-cytology correlation report Reports sufficient to comply with CLIA '88 regulations	installed 25%
Comprehensive billing and accounts receivable	40%
HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	58% 8%/available but not installed
Interface to external billing system	1%
Partin tables or Gleason score calculations Synoptic reporting	1% 75%
Specimen tracking and retrieval Client services module	38% available but not installed
Consult management and reporting	100%
oftware provides indexed field in each test definition for LOINC code? rovide LOINC dictionary for each new installation?	yes no
o. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	0
omplete AP application service provider solution? lethod of charging for ASP service	yes fixed fee
lient software required	requires software be installed on a client PC
SP information conduit lient contracts supported from data center not operated by client	requires use of private, dedicated circuit 2
ow data center is operated	by a third party (Superior Consulting Co.)
ther information systems interfaced	MediSolution, SCC, Keane, McKesson, Misys, GE Medical, Meditech, oth MS Word compatible, Dragon Naturally Speaking
oice-recognition packages integrated with AP system istology and cytology laboratory instruments interfaced	Shur/Mark, SurgiPath, Fisher Scientific cassette printers, Ventana staine
ser interface in language other than English?	yes (21 different languages, including French, Spanish, German, Italian, Korean, Chinese)
ource code?/user group? ser can modify screens?	escrow/yes yes
ost (hardware/software/installation and training/monthly maintenance)	
Smallest stand-alone system Largest stand-alone system	\$20k/\$50k/\$15k/\$0.833k \$50k/\$300k/\$40k/\$5k
ase price of integrated system, excluding AP configuration	\$277k
Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration	/\$3k// \$1k/\$3k per workstation//\$0.05k
istinguishing features (supplied by vendor)	integration of all images into history, does not need to be part of rep
H=U.S. hospitals, IL=independent labs in U.S.,	efficiency of workflow paperless work distribution
or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	- paperiess work distribution

Tabulation does not represent an endorsement by the College of American Pathologists.



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Anatomic pathology computer systems

1	711131311116	pathology compater	Systems
See accomplicating affolior on page 17 to 60 of page 18 t	Part 8 of 13	Misys Healthcare Systems	Netlims NJ LLC
The control of anisotric pathology system certain devices and provided the state of the control of the pathology of the path		8529 Six Forks Rd., Raleigh, NC 27615	96 Engle St., Englewood, NJ 07631
The of controls for sites, specially of System (1912) or 3071-3059 The vicinity of institution standards Or 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Name of anatomic pathology system		
The of controls for sites, specially of System (1912) or 3071-3059 The vicinity of institution standards Or 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	First over AP system installation/most recent AP system installation	1979/2005	2000/2005
the of all the specialist of Psychian Or an executive properties of the special polymen of			
Recenting of insulations simulations: - In 11.5 dation (Pacified) plifts for any statement of the second company of the control cont			
Self of body spended support objects — ST-19-05-5 In the Stationary desiration per self of the spending system is a self-spending system by my self-spending system by self-spen			
- In an office company —		U	U
Bardy in Not dynamic processory and the speciality system. Bardy in Not dynamic processory are system in siles operating system. Bardy in Not dynamic processory are system in siles operating system. Bardy in Not dynamic processory are system in siles operating system. Bardy in Not dynamic processory are system in siles operating syst. 1000-1000-1000-1000-1000-1000-1000-10	In entire company	_	
Bange in the all personal publishing paces payed in all sea personal publishing paces payed in a size personal payed in the all personal payed in the personal payed	In LIS division (including AP)/in AP systems only	_	53-11-20-15/11-4-5-0
Bargie file of grecording: cynology cance per year in table operating synt Termitation section for platefallers Termitation section for platefallers Bill Dell Compet Bill			
Terminative exhaustions on PS juliuform Internative profession juganities of the profession of the pro			
Introcube purphaseis Frequencing suppages)		IBM, Dell, Compaq	IBM, HP, Dell
Infection Industrial regular/Protector's supported systems of the particular programming beginning and all post and services and solve to an experimental programming services and solve to an experimental services and solve to solve to solve the solve to solve to solve the solve to so			
Retorick Statistististist required Protectins supported programming languages and protection of the pr	Innovative peripherals		· · · · · · · · · · · · · · · · · · ·
Integrational paragraphy (Company system) (Company system	Network installation required?/networks supported		
Vision processorily used Feathers (Sted or a percenting of the intellier triangle of the intelligence of the	Programming language(s)	Power Builder	C++, Java, Visual Basic, ASP .Net
Coperating system(s) Foreign sy		•	
Federacy foliated as percentages of flow installs or based on availability of the second of a availability of the second of availability o		·	
- Sugicial pathways information system - Cyclobing information system - Specimen by the - Specimen birth - Specim	operating system(s)	rus, vinuovos 2000 sci vei, vvinuovos 2000 dilu AF vvolks(dtiulis	mindows, Linux, Offix
- Cyclogy internation system - Oxford Completed Parks - Control of Section Section - Control of Section		1000/	1000/
- Autority pisternation system			
- Sportion log-in - Littly of Mock Ibs - Down - Sporting of Mock Ibs - Richard yall filed bits -			
- Specimen labels - Wilder ignoscianty—centred specific - Wild ignoscianty—centred specific - Gross and microscopic images literagrated in reports - Gross and microscopic images literagrated in reports - Wild-based more imaging of reports - Wild-based	Specimen log-in	100%	100%
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- Word processing—standard tools (Word WordPerfect) - Words early of gross description - Words early of gross description - Cross and state control of the processing of the	Histology worksheets	100%	
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Back-can batch voice to ined Gross and microscopi inarges integrated in reports Circos and microscopi inarges integrated in reports Circos and microscopi inarges integrated reports Circos and	word processing—standard tools (Word, WordPerfect) Voice entry of cross description		
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Remote printing of completed reports 9% 100% 100% 100% 100% 100% 100% 100% 1		3370	
Pilicet fax reports 95% 100%			
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- Physician Web access for order entry - Natural language search capability - SMOMED UNSMARD CT - SMOMED UNSMARD CT - SMOMED UNSMARD CT - SMOMED UNSMARD CT - SMOMED CT - SMOMED CT - SMOMED CT - Alloysy measurements and organ veilghts - Management reports - Management reports - Cytology abmoral—unsatisfactory list to doctors - Cytology diagnostics statistics by pathologist or cytolechnologist - Management reports - Cytology diagnostics statistics by pathologist or cytolechnologist - Monagement reports - Cytology diagnostics statistics by pathologist or cytolechnologist - Complete a page pathologistics cytolechnologist - Complete a page pathologistics cytolech	Web-based remote inquiry of reports	_	
SANDMED LIS SOURCE CT Sound-alter retrieval of patient history Autospy resourcements and regar weights DVS	Physician Web access for order entry		•
* Multi-site or multi-facility wide area network 25% 10% 100% 100% 100% 100% 100% 100% 100			
- Sound-allike retrieval of patient history - Authorys messurements and organ weights - Tumor registry reports - Cytology abnormal—antisticatory list to doctors - Cytology abnormal—antisticatory list doctors - Comprehense building and accounts receivable - Histology-opticy correlation report - Histology-opticy reports - Interface to external billing system - Synogite reporting - Histology-opticy report - Histology			
- Autorys measurements and organ weights - Management reports - Management reports - Optiosity diagnostics statistics by pathologist or cytotechnologist - Optiosity ormelation reports - Optiosity diagnostics statistics by pathologist or cytotechnologist - Optiosity ormelation reports - Optiosity ormelation r			
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Cyfology ahornal—unstafsdactory late lockocks Cyfology dispussess satistists by plath lockocks Cyfology correlation report Historical to comply with CLIA 88 regulations 100% 100% 100% 100% 100% 100% 100% 100			
- Cytology diagnostics statistics by pathologist or cytotechnologist - Reports sufficient to comply with CLIA 8r equations - Reports sufficient to comply with CLIA 8r equations - Reports sufficient to comply with CLIA 8r equations - 100% -			
Histology-cytology correlation report Reports sufficient to comply with CLIA 88 regulations Comprehensive billing and accounts receivable His linefrace result reporting/incoming clinical results Partin tables or Gleason score calculations Partin t	Cytology diagnostics statistics by pathologist or cytotechnologist		
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HIS Interface to external billing system Partin tables or Gleason score calculations Partin tables or Gleason score calculations Partin tables or Gleason score calculations Symptic reporting Specimen tracking and retrieval Client scrivics module Consult management and reporting Software provides indexed field in each test definition for LOINC code? Onsult management and reporting No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations shat use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry No. of installations service provider solution? No. of installations service provider solution? No. of installations and transfer and tumor registry No. of installation and transfer and tumor registry No. of installations and tumor registry No. of installations and tumor registry No. o			
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- Speciment pracking and retrieval - Speciment pracking and retrieval - Speciment pracking and retrieval - Consult services module - Consult management and reporting - No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry - Complete AP application service provider solution? - Complete AP application service provider solution se	Interface to external billing system		
- Specimen tracking and retrieval - Client services module - Consult management and reporting - 100% - Consult management and reporting - 100%			
Consult management and reporting for Desire form Consult management and reporting Consult management and reporting for Desire format. Consult management and reporting management and reporting with Management and Sult of Desire for all disciplines—AP, microbiology, general lab, et electronic cancer reporting for better cancer research and duscomes in full HL7 interfaces for orders and results; full integration with MS Of consultant provides and customes in sults, full integration with MS Of consultant provides and reporting with synoptic analysis and SNOMED Consultant provides and results; full integration with MS Of consultant provides and results; full integration with MS Of consultant provides and results for desired and results; full integration with MS Of consultant provides and results. Consultant provides in US, in Energian installations		-	
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated Other information systems interfaced Wileys products Dragon Naturally Speaking Shur/Mark and Shandon silde and cassette labelers Shur/Mark and Shandon silde and cassette labelers Source code?/user group? User can modify screens? Cost flardware/software/installation and training/monthly maintenance) - Smallest stand-alone system Sae price of integrated system, excluding AP configuration - Incremental cost to add smallest AP configuration - Incremental cost to	Client services module	_	
Provide LOINC dictionary for each new installation? No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service ———————————————————————————————————	Consult management and reporting	_	100%
No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service ———————————————————————————————————			
tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service ———————————————————————————————————			
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Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated Other information systems interfaced Other coognition packages integrated with AP system Histology and cytology laboratory instruments interfaced User interface in language other than English? Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add smallest AP configuration Incremental cost to add smallest AP configuration Incremental cost to add smallest AP configuration Incremental cost to add s		no	no
ASP information conduit Client contracts supported from data center not operated by client How data center is operated Other information systems interfaced Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced User interface in language other than English? Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system Largest stand-alone system Incremental cost to add smallest AP configuration Incremental cost to add smallest AP configuration Incremental cost to add smallest AP configuration Distinguishing features (supplied by vendor) "H=U.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U.S., Fl-foreign installations, OS=other sites "Haul.S. hospitals, IL=independent labs in U.S., Cor GP-eclinics or group practices in U	Method of charging for ASP service	-	_
Client contracts supported from data center not operated by client How data center is operated Client information systems interfaced Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced User interface in language other than English? Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) - Smallest stand-alone system - Largest stand-alone system - Largest stand-alone system - Largest stand-alone system - Incremental cost to add smallest AP configuration - Incremental cost to add smallest AP configuration - Incremental cost to add largest AP configuration - Incremental cost to add largest AP configuration - Structured data reporting with synoptic analysis and SNOMED CT - electronic cancer research and outcomes - outstanding customer satisfaction and financial stability - One database for all disciplines—AP, microbiology, general lab, et - highly customizable to meet the needs of the lab and its clients - full HL7 interfaces for orders and results; full integration with MS Of		-	_
How data center is operated — — — — — — — — — — — — — — — — — — —			
Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced User interface in language other than English? Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Samallest stand-alone system Largest stand-alone system Largest stand-alone system Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Where it is the configuration With the configuration Incremental cost to add largest AP configuration With the configuration Structured data reporting with synoptic analysis and SNOMED CT Structured data reporting for better cancer research and outcomes User interface in language other than English? Dragon Naturally Speaking none yes (in any Windows-supported language) Sacrow/no yes Saok/\$120k/\$30k/\$2.25k S150k/\$400k/\$90k/\$7.35k S150k/\$400k/\$90k/\$7.35k S150k/\$400k/\$90k/\$7.35k S150k/\$400k/\$90k/\$7.35k S120k/\$250k/\$75k/\$4.875k S120k/\$2		_	_
Voice-recognition packages integrated with AP system Histology and cytology laboratory instruments interfaced User interface in language other than English? Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Samallest stand-alone system Largest stand-alone system Largest stand-alone system Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Where it is the configuration With the configuration Incremental cost to add largest AP configuration With the configuration Structured data reporting with synoptic analysis and SNOMED CT Structured data reporting for better cancer research and outcomes User interface in language other than English? Dragon Naturally Speaking none yes (in any Windows-supported language) Sacrow/no yes Saok/\$120k/\$30k/\$2.25k S150k/\$400k/\$90k/\$7.35k S150k/\$400k/\$90k/\$7.35k S150k/\$400k/\$90k/\$7.35k S150k/\$400k/\$90k/\$7.35k S120k/\$250k/\$75k/\$4.875k S120k/\$2	Other information systems interfaced	Misys products	Siemens, IDX, Cerner, Misys, SCC
User interface in language other than English? Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system Incremental cost to add smallest AP configuration Incremental cost to add largest AP conf	Voice-recognition packages integrated with AP system	Dragon Naturally Speaking	Dragon Naturally Speaking
Source code?/user group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system, excluding AP configuration Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Sistinguishing features (supplied by vendor) Whelu.S. hospitals, IL=independent labs in U.S., Cor GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites Nowled to meets online as well) yes Sak/\$120k/\$30k/\$2.25k \$150k/\$400k/\$90k/\$7.35k — Sak/\$70k/\$30k/\$1.5k \$120k/\$250k/\$75k/\$4.875k One database for all disciplines—AP, microbiology, general lab, et electronic cancer reporting for better cancer research and outcomes outstanding customer satisfaction and financial stability Outstanding customer satisfaction and financial stability *Incremental cost to add largest AP configuration Outstanding customer satisfaction and financial stability Structured data reporting with synoptic analysis and SNOMED CT electronic cancer repearch and outcomes outstanding customer satisfaction and financial stability Outstanding customer satisfaction and financial stability		Shur/Mark and Shandon slide and cassette labelers —	
User can modify screens? yes yes yes yes yes yes yes y			, , , , , , , , , , , , , , , , , , ,
 Smallest stand-alone system Largest stand-alone stands Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k S			
 Smallest stand-alone system Largest stand-alone stands Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k Sok/\$70k/\$30k/\$1.5k S	Cost (hardware/software/installation and training/monthly maintenance)		
Base price of integrated system, excluding AP configuration Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Distinguishing features (supplied by vendor) *H=U.S. hospitals, IL=independent labs in U.S., F1=foreign installations, OS=other sites	Smallest stand-alone system	-	
 Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Situative data reporting with synoptic analysis and SNOMED CT electronic cancer reporting for better cancer research and outcomes electronic cancer reporting for better cancer research and outcomes outstanding customer satisfaction and financial stability full HL7 interfaces for orders and results; full integration with MS Of 		_	\$15UK/\$400K/\$90K/\$7.35K
• Incremental cost to add largest AP configuration — \$120k/\$250k/\$75k/\$4.875k Distinguishing features (supplied by vendor) • structured data reporting with synoptic analysis and SNOMED CT • electronic cancer reporting for better cancer research and outcomes *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., F1=foreign installations, OS=other sites • outstanding customer satisfaction and financial stability • full HL7 interfaces for orders and results; full integration with MS Of		_	\$30k/\$70k/\$30k/\$1.5k
* electronic cancer reporting for better cancer research and outcomes *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites * electronic cancer reporting for better cancer research and outcomes * outstanding customer satisfaction and financial stability * full HL7 interfaces for orders and results; full integration with MS Of	3	-	
* electronic cancer reporting for better cancer research and outcomes *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites * electronic cancer reporting for better cancer research and outcomes * outstanding customer satisfaction and financial stability * full HL7 interfaces for orders and results; full integration with MS Of	Distinguishing features (supplied by vendor)	Structured data reporting with synontic analysis and SMOMED CT	• one database for all disciplinesAD microbiology general leb etc.
*H=U.S. hospitals, IL=independent labs in U.S., outstanding customer satisfaction and financial stability outstanding customer satisfaction and financial stability outstanding customer satisfaction and financial stability	3 3 4 (4)		 one database for all disciplines—AP, microbiology, general lab, etc. highly customizable to meet the needs of the lab and its clients
			full HL7 interfaces for orders and results; full integration with MS Office

Anatomic pathology computer systems

7.110.0011	no patriology compater	- Systems
Part 9 of 13	NetSoft Inc.	Novovision Inc.
See accompanying article on page 18	Bill Hughes sales@netsoftusa.com 2156 W. Park Court, Ste. E, Stone Mountain, GA 30087 678-325-2909 www.netsoftusa.com	Hina Kharbey sales@novovision.com 301 N. Harrison St., Ste. 384, Princeton, NJ 08540 877-668-6123 www.novovision.com
Name of anatomic pathology system	IntelliPath	NovoPath
First over AD evertors installation/most recent AD evertors installation	2001/2005	1000/2005
First ever AP system installation/most recent AP system installation No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	32 (5/24/3/0/0)	1999/2005 53 (4/35/14/0/0)
No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	7	15
No. of sites operating AP system	43	80
Percentage of installations standalone	100%	100%
Staff to develop-install-support-other** • In entire company	5-5-7-2	8-4-3-3
In LIS division (including AP)/in AP systems only	_	_
No. of interactive terminals (user workstations) in sites operating system	1–40 (ave., 12)	3–150 (ave., 20)
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	5,000–200,000 12,000–60,000	3,500–275,000 1,500–750,000
Central hardware or service type	Dell, HP Pentium IV or Xeon servers	Windows 2003 servers
Terminals/workstations or PC platform Innovative peripherals	Dell, HP, generic Pentium IV PCs auto fax, digital cameras and scanners for imaging, bar-code printing and	PC based high-volume requisition scanners, interactive voice response for
illilovative periprierais	scanning, voice recognition, handheld PDA and pocket PC connectivity, others	result delivery
Network installation required?/networks supported	no (but supports LAN, WAN, TCP/IP, Citrix)	yes/LAN, WAN, TCP/IP, Windows networking
Programming language(s)	Clarion, C++, .Net	MS Tools
Databases and tools used	Pervasive SQL	MS SQL server, Oracle
Word processor(s) used	integrated Windows XP, 2000	MS Word, user preference Windows XP Professional
Operating system(s)	WINDUWS AF, 2000	MILIONA VL LINICOSINIUI
Features (listed as a percentage of live installs or based on availability)		
Surgical pathology information system	100%	100%
Cytology information system Autorsy information system	25%	100%
Autopsy information system Specimen log-in	10% 100%	100% 100%
Entry of block IDs	100%	100%
Specimen labels	100%	100%
Histology slide labels	100%	100%
Bar-coded slide labels Highelpay worksheets	100%	100%
Histology worksheets Word processing—vendor specific	100% 100%	100% not available
word processing—vendor specific Word processing—standard tools (Word, WordPerfect)	not available	not available 100%
Voice entry of gross description	available but not installed	100%
Back-end batch voice to text	available but not installed	100%
Gross and microscopic images integrated in reports	10%	100%
Electronic signature Parada minimum of computated reports	100%	100%
Remote printing of completed reports Direct fax reports	available but not installed 100%	100% 100%
Web-based remote inquiry of reports	25%	60%
Physician Web access for order entry	available but not installed	20%
Natural language search capability	100%	100%
SNOMED II/SNOMED CT Multi-oide on multi-facility unide once maturals.	available but not installed	available but not installed
Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history	18% installed	25% 100%
Sound-alike retrieval of patient history Autopsy measurements and organ weights	10%	100%
Tumor registry reports	100%	100%
Management reports	100%	100%
Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotochnologist.	20%	100%
Cytology diagnostics statistics by pathologist or cytotechnologist Histology-cytology correlation report	20% 20%	100% 100%
Reports sufficient to comply with CLIA '88 regulations	100%	100%
Comprehensive billing and accounts receivable	45%	30%
HIS interface: A/D/T	10%	20%
HIS interface: result reporting/incoming clinical results Interface to outgrad billing outgoing.	15%/10%	20%/20%
Interface to external billing system Partin tables or Gleason score calculations	30% available but not installed	100% installed
Synoptic reporting	not available	100%
Specimen tracking and retrieval	installed	100%
Client services module	28%	100%
Consult management and reporting	28%	100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no no	no no
No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	8 in HL7 format	not tracked
Complete AP application service provider solution?	no	yes
Method of charging for ASP service	_	fixed fee
Client software required	-	browser based, requires software be installed on a client PC
ASP information conduit Client contracts supported from data center not operated by client		operates over the Internet 0
Client contracts supported from data center not operated by client How data center is operated	<u> </u>	by a third party
Other information systems interfaced	Rand, Per-Sé, WebMD, IDX	McKesson, InVision, Eclipsys, others
Voice-recognition packages integrated with AP system	Dragon Naturally Speaking	Dragon Naturally Speaking
Histology and cytology laboratory instruments interfaced User interface in language other than English?	no	no
Source code?/user group?	escrow/no	escrow/no
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
Smallest stand-alone system Largest stand-alone system	Ξ	Ξ
Base price of integrated system, excluding AP configuration	_	_
Incremental cost to add smallest AP configuration	_	_
Incremental cost to add largest AP configuration	-	_
Distinguishing features (supplied by vendor)	all modulos including modulos and button of the	- real time alide vides senformation (Astro-that)
g-io-in-ig-to-tail-oo (outperiou by vortuor)	 all modules, including word processing and billing, are fully integrated 	 real-time slide video conferencing (telepathology) built-in interactive results using voice
*H=U.S. hospitals, IL=independent labs in U.S.,	full-featured system with scalable pricing	report content preferences per physician
C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	• superior customer care	
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Anatomic pathology computer systems

	76.05	no patriology compater	- Systems
	Part 10 of 13	Opus Healthcare Solutions Inc.	Orchard Software Corp.
	See accompanying article on page 18	Shelli Allen solutions@opushealthcare.com 12301 Research Blvd., Bldg. IV, Ste. 200, Austin, TX 78759 800-676-3371 www.opushealthcare.com	Kerry Foster sales@orchardsoft.com 701 Congressional Blvd., Ste. 360, Carmel, IN 46032 800-856-1948 www.orchardsoft.com
	Name of anatomic pathology system	Opus AP	Orchard Harvest Anatomic Pathology
ľ	First ever AP system installation/most recent AP system installation	1987/2005	2006/2006
	No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	5 (5/0/0/0/0) 1	9 (3/5/1/0/0) 9
	No. of sites operating AP system Percentage of installations standalone	4	9 (in various stages of installation) 0
	Staff to develop-install-support-other**	50-15-20-25	23-27-18-32
	In entire companyIn LIS division (including AP)/in AP systems only	7-8-7-20/3-2-7-20	23-27-18-32/3-4-4-1
	No. of interactive terminals (user workstations) in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	5–30 (ave., 19) 7,058–10,253 0–4,949	2–20 (ave., 5) unknown unknown
ŀ		<u> </u>	
	Central hardware or service type Terminals/workstations or PC platform	HP 9000, RP 5340 any	Hewlett-Packard Hewlett-Packard
1	Innovative peripherals Network installation required?/networks supported	n/a yes/LAN, WAN, TCP/IP, Unix	Symbol bar-code scanners, L-tron label printers (ZPL language supported yes/LAN, WAN, Novell, TCP/IP
	Programming language(s)	C, Java	4th Dimension, Java
	Databases and tools used Word processor(s) used	Postgres, SQL proprietary Java-based text editor	4th Dimension, SQL none
	Operating system(s)	HP-UX	MS Windows
	Features (listed as a percentage of live installs or based on availability)	100%	installed
	Surgical pathology information system Cytology information system	100% 100%	installed installed
	Autopsy information system	60%	installed
	Specimen log-in Entry of block IDs	100% 30%	installed installed
	Specimen labels	available but not installed	installed
	Histology slide labels Bar-coded slide labels	30% not available	installed installed
	Histology worksheets	30%	installed
1	Word processing—vendor specific Word processing—standard tools (Word, WordPerfect)	100% not available	installed installed
1	Voice entry of gross description	not available	installed
	Back-end batch voice to text Gross and microscopic images integrated in reports	not available available in 2006	not available available in fall 2006
1	Electronic signature	100%	installed
1	Remote printing of completed reports Direct fax reports	100% 100%	installed installed
	Web-based remote inquiry of reports	30%	installed
	Physician Web access for order entry Natural language search capability	not available 100%	installed not available
	NOMED II/SNOMED CT	not available	installed
1	Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history	available but not installed not available	installed not available
	Autopsy measurements and organ weights	available but not installed	installed
	Tumor registry reports	60%	installed installed
1	 Management reports Cytology abnormal—unsatisfactory list to doctors 	100% 30%	installed
1	Cytology diagnostics statistics by pathologist or cytotechnologist	30%	installed
	Histology-cytology correlation report Reports sufficient to comply with CLIA '88 regulations	30% 30%	installed installed
	Comprehensive billing and accounts receivable	not available	not available
	HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	100% 100%/100%	installed installed
	Interface to external billing system	50%	installed
	 Partin tables or Gleason score calculations Synoptic reporting 	not available available but not installed	not available installed
	Specimen tracking and retrieval	not available	installed
	Client services module Consult management and reporting	not available 50%	installed —
-	Software provides indexed field in each test definition for LOINC code?	no	yes
	Provide LOINC dictionary for each new installation?	_	no
	No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	1 in HL7 format	_
	Complete AP application service provider solution?	yes	no
	Method of charging for ASP service Client software required	fixed monthly subscription requires software be installed on a client PC	Ξ
	ASP information conduit	VPN, requires use of private, dedicated circuit	_
	Client contracts supported from data center not operated by client How data center is operated	by a third party (UHS Corporate)	_
	Other information systems interfaced	Siemens, Invision, McKesson, Cycare, Medquist, Hemocare, Quest, ADL	McKesson, Misys, IDX, Siemens, Cerner, Dairyland, QuadraMed, Meditech, GE, Experior, others
	Voice-recognition packages integrated with AP system	none	Dragon Naturally Speaking
	Histology and cytology laboratory instruments interfaced User interface in language other than English?	none no	none no
	Source code?/user group? User can modify screens?	escrow/yes (meets online as well) yes	escrow/yes (meets online as well) yes
-	Cost (hardware/software/installation and training/monthly maintenance)		
	Smallest stand-alone system	\$15k-\$20k/\$40k/\$20k-\$30k/\$1k-\$2k	n/a
	Largest stand-alone system Base price of integrated system, excluding AP configuration	\$20k-\$30k/\$40k/\$30k-\$50k/\$2k-\$4k \$100k-\$300k	n/a ~\$90k
	Incremental cost to add smallest AP configuration	\$15k-\$20k/\$40k/\$20k-\$30k/\$1k-\$2k	\$3k/\$30k/\$13k/\$0.25k
	Incremental cost to add largest AP configuration	\$20k-\$30k/\$40k/\$30k-\$50k/\$2k-\$4k	\$30k/\$90k/\$30k/\$1k
	Distinguishing features (supplied by vendor)	full integration with OpusLab to include ADT, billing, results review,	advanced rules-based decision support logic interfere and interesting expertises with other systems departments.
	*H=U.S. hospitals, IL=independent labs in U.S.,	HIS interface • flexible workflow with numerous customer options	 interface and integration expertise with other systems, departments, and reference labs
	C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	Pap smear random: 10% rescreen; 0+ negative cases is automatic	industry leader in installation, service, and technical support
L			

Anatomic pathology computer systems

	Anatomic	e patnology computer	systems
	Part 11 of 13	PathLogix Corp.	Psyché Systems Corp.
	See accompanying article on page 18	Jerry Grayson jerry@pathlogix.com 470 Nautilus St., Ste. 306, La Jolla, CA 92037 858-454-8030 www.pathlogix.com	Patricia Salem info@psychesystems.com 321 Fortune Blvd., Milford, MA 01757 800-345-1514 www.psychesystems.com
ŀ	Name of anatomic pathology system	PathLogix	WindoPath
ŀ	First ever AP system installation/most recent AP system installation	1998/2005	1986/2005
	No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	73 (5/68/0/0/0) 5	110 (45/29/4/32/0) 7
	No. of sites operating AP system	76	127
	Percentage of installations standalone Staff to develop-install-support-other**	73%	90%
	In entire company In LIS division (including AP)/in AP systems only		12-8-9-6 12-8-9-6/6-4-5-6
	No. of interactive terminals (user workstations) in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	1–80 (ave., 5) 1,000–40,000 1,000–50,000	1–45 (ave., 6) 1,000–75,000 0–200,000
	Central hardware or service type Terminals/workstations or PC platform Innovative peripherals	any Windows computer standard terminals imaging, voice recognition, most standard peripherals	Windows NT, 2000, 2003 Windows PC voice input/output, image management, auto fax, Web outreach,
	Network installation required?/networks supported	no, but supports all networks that support Microsoft databases	bar code, cassette/slide labelers, others yes/LAN, WAN, TCP/IP
	Programming language(s) Databases and tools used	SQL, Visual Basic, C++ SQL server, Access	VB .Net, Visual Basic, Small Talk MS SQL server
	Word processor(s) used	MS Word	integrated
ŀ	Operating system(s)	all Windows operating systems	Windows NT, 2000, XP, 2003 server
	Features (listed as a percentage of live installs or based on availability) • Surgical pathology information system	100%	100%
	Cytology information system Autopsy information system	100%	99% 100%
	Specimen log-in	100%	100%
	Entry of block IDs Specimen labels	100% 100%	100% 100%
	Histology slide labels	100%	100%
	Bar-coded slide labels Histology worksheets	100% 100%	100% 100%
	Word processing—vendor specific	100%	100%
	Word processing—standard tools (Word, WordPerfect) Voice entry of gross description	100% installed	100% 25%
	Back-end batch voice to text Gross and microscopic images integrated in reports	installed installed	available but not installed 100%
	Electronic signature	100%	100%
	Remote printing of completed reports Direct fax reports	100% 100%	100% 100%
	Web-based remote inquiry of reports	2%	10%
	Physician Web access for order entry Natural language search capability	2% 100%	5% 100%
	SNOMED II/SNOMED CT Multi-site or multi-facility-wide area network	 installed	available but not installed 10%
	Sound-alike retrieval of patient history	—	100%
	 Autopsy measurements and organ weights Tumor registry reports 	 installed	100% 100%
	Management reports	100%	100%
	Cytology abnormal—unsatisfactory list to doctors Cytology diagnostics statistics by pathologist or cytotechnologist	installed 100%	100% 100%
	Histology-cytology correlation report Reports sufficient to comply with CLIA '88 regulations	installed installed	100% 100%
	Comprehensive billing and accounts receivable	_	not available
	HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	_ _	100% 100%/5%
	Interface to external billing system	100%	90%
	 Partin tables or Gleason score calculations Synoptic reporting 	_	available in early 2006 5%
	Specimen tracking and retrieval Client services module	100% 100%	available but not installed available but not installed
	Consult management and reporting	100%	100%
	Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	Ξ	yes no
	No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry		3 in NAACCR format
	Complete AP application service provider solution?	yes	yes
	Method of charging for ASP service Client software required	fixed fee requires software be installed on a client PC	fixed fee browser based
	ASP information conduit Client contracts supported from data center not operated by client	operates over the Internet	operates over the Internet
	How data center is operated		by vendor
	Other information systems interfaced Voice-recognition packages integrated with AP system	Medical Manager, IDX Last Word Dragon Naturally Speaking, IBM	Siemens, McKesson, Meditech, Misys, Keane, others Dragon systems
	Histology and cytology laboratory instruments interfaced		CAS analyzer, Ventana Benchmark, Roche Elecsys/Integra, Coulter ACT
	User interface in language other than English?	no	yes (Italian; translation tables for all languages)
	Source code?/user group? User can modify screens?	escrow/no yes	escrow/yes yes
	Cost (hardware/software/installation and training/monthly maintenance)	164 40L / 160 0C	Olda/ FLIDT TLIGG ****
	Smallest stand-alone system Largest stand-alone system	—/\$1.49k/—/\$0.08k —/\$17.77k/—/\$0.2k	0/\$16.5k/\$7.7k/\$0.446k \$11k/\$372k/\$40k/\$11k
	Base price of integrated system, excluding AP configuration • Incremental cost to add smallest AP configuration		=
	Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration	—/\$2.99K/—/\$0.08K —/\$17.77k/—/\$0.2k	_
-	Distinguishing features (supplied by vendor)	Internet option with customer report retrieval, online requisitions,	interfaces to instruments and devices, including slide/cassette
	*H=U.S. hospitals, IL=independent labs in U.S.,	other advanced features	labelers
	"C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites "other=sales, marketing, administration, and other company functions	features to help clients with marketing and customer service flexibility and scalability	 clinical info. module to view/report related clinical test results easy to use; customized to fit labs' specific needs/specialty
L	Sales – Sales, marketing, administration, and other company functions		. , ,

Anatomic pathology computer systems

		patriology compater	
	Part 12 of 13	SCC Soft Computer	Small Business Computers of New England Inc.
	See accompanying article on page 18	Ellie Vahman ellie@softcomputer.com 34350 U.S. Highway 19 North, Palm Harbor, FL 34684	Gene Calvano gene_calvano@sbcne.com 25 Lowell St., Ste. 401, Manchester, NH 03101
	Name of anatomic pathology system	727-789-0100 www.softcomputer.com SoftPath	800-647-2263/603-695-9090 www.sbcne.com AP Easy
	name of anatomic pathology system	30111 4111	At Lasy
	First ever AP system installation/most recent AP system installation	1993/2005	1989/2005
١	No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	140 (104/9/4/23/0) 10	206 (48/136/17/5/0) 20
١	No. of sites operating AP system	290	206
١	Percentage of installations standalone	3%	100%
	Staff to develop-install-support-other** • In entire company	603-79-178-170	4-4-4-1
	In LIS division (including AP)/in AP systems only	440-57-130-124/121-16-36-34	
	No. of interactive terminals (user workstations) in sites operating system	5–250 (ave., 10–20)	1–53 (ave., 7–10)
	Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	1,000–85,000 25–125,000	1,000–50,000 2,000–75,000
ı	Central hardware or service type	IBM pSeries (RS/6000), IBM Power5 system	Windows NT, 2000, 2003, XP, Macintosh OS
١	Terminals/workstations or PC platform	PCs with Windows 2000, XP	Windows NT, 2000, 2003, XP, Macintosh OS
١	Innovative peripherals	embedded images and lab results on final reports, image-management	image-enabled reports with digital/microscope camera, color
١	Network installation required?/networks supported	module, Web-based portal access for ordering and reports, others yes/LAN, WAN, TCP/IP, Unix	printing, fax robot yes/LAN, WAN, TCP/IP
١	Programming language(s)	C++, C, VBA, Java	FileMaker Pro
١	Databases and tools used	Oracle, XML, DB Vista, SQL	FileMaker Pro
	Word processor(s) used Operating system(s)	MS Word/Rich Text Editor	integrated with FileMaker Pro Windows NT, 2000, 2003, VP, Macintosh OS
	Operating system(s)	server: IBM, AIX (Unix)/client: Windows 2000, XP	Windows NT, 2000, 2003, XP, Macintosh OS
	Features (listed as a percentage of live installs or based on availability)	1000/	1000/
	Surgical pathology information system Cytology information system	100% 100%	100% 100%
	Autopsy information system	100%	100%
	Specimen log-in	100%	100%
	Entry of block IDs Specimen labels	100%	100%
	Specimen labels Histology slide labels	100% 100%	100% 100%
	Bar-coded slide labels	installed	installed
	Histology worksheets	100%	100%
	Word processing—vendor specific Word processing—standard tools (Word Word Portact)	not available	n/a
١	 Word processing—standard tools (Word, WordPerfect) Voice entry of gross description 	100% installed	100% available but not installed
١	Back-end batch voice to text	available second quarter 2006	available but not installed
١	Gross and microscopic images integrated in reports	installed	100%
١	Electronic signature	100%	100%
	Remote printing of completed reports Direct fax reports	100% 100%	installed installed
	Web-based remote inquiry of reports	5%	nstalled 15%
	Physician Web access for order entry	available but not installed	1%
١	Natural language search capability	100%	100%
١	SNOMED II/SNOMED CT Multi-site or multi-facility-wide area network	not available/installed 55%	100%/available but not installed installed
١	Sound-alike retrieval of patient history	100%	100%
١	Autopsy measurements and organ weights	installed	100%
١	Tumor registry reports	installed	100%
١	 Management reports Cytology abnormal—unsatisfactory list to doctors 	100% 100%	100% 100%
١	Cytology diagnostics statistics by pathologist or cytotechnologist	100%	100%
١	Histology-cytology correlation report	100%	100%
١	Reports sufficient to comply with CLIA '88 regulations	100%	100%
١	Comprehensive billing and accounts receivable HIS interface: A/D/T	30% 95%	15% installed
١	HIS interface: result reporting/incoming clinical results	85%/15%	installed/available but not installed
	Interface to external billing system	60%	85%
	Partin tables or Gleason score calculations Sympotic reporting	available second quarter 2006	installed
	Synoptic reporting Specimen tracking and retrieval	installed available second quarter 2006	installed 100%
	Client services module	installed	installed
	Consult management and reporting	installed	100%
	Software provides indexed field in each test definition for LOINC code?	yes	no no
	Provide LOINC dictionary for each new installation? No of installations that use system to automatically transfer.	10 in HI 7 format	17 in NAACCP format
	No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	10 in HL7 format	17 in NAACCR format
-	Complete AP application service provider solution?	yes	no
	Method of charging for ASP service	fixed fee or transaction based (or both)	_
	Client software required ASP information conduit	requires software be installed on a client PC	_
	Client contracts supported from data center not operated by client	requires use of private, dedicated circuit 1	_
	How data center is operated	by vendor	_
ľ	Other information systems interfaced	Cerner, Siemens, McKesson, IDX, QuadraMed, Eclipsys, Dairyland, others	Misys, Meditech, CPSI
	Voice-recognition packages integrated with AP system	Dragon Professionally Speaking	Windows and Macintosh OS packages supporting FileMaker Pro
	Histology and cytology laboratory instruments interfaced	cassette markers, slide labelers, stainers	slide labelers
	User interface in language other than English?	yes (French)	no
	Source code?/user group? User can modify screens?	escrow/yes (meets online as well) yes	yes/no yes
	·		
	Cost (hardware/software/installation and training/monthly maintenance) • Smallest stand-alone system	\$30k/\$30k/\$50k/\$0.45k	\$1k/\$3k/0/0
	Largest stand-alone system	\$100k/\$150k/\$75k/\$2.25k	\$50k+/\$22k/\$3k/\$0.25k
	Base price of integrated system, excluding AP configuration	\$250k	n/a
	Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration	\$15k/\$30k/\$40k/\$0.45k \$100k/\$275k/\$75k/\$4.125k	n/a n/a
	Incremental cost to add largest AP configuration	ψ 1.00M Ψ21 JM Ψ1. IZJN	II/Q
	Distinguishing features (supplied by vendor)	•unique Manager's Dashboard with real-time data and ability to delegate	customized solution with ongoing customizing support
	*H=U.S. hospitals, IL=independent labs in U.S.,	tasks	Internet reporting of final reports to client physicians high level of percentalized currents.
	C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	 Web-based module (SoftWeb) for remote order entry and results query powerful features for large commercial laboratories 	high level of personalized support
	**other=sales, marketing, administration, and other company functions	F	

Anatomic pathology computer systems

Anatomic patriology c	
Part 13 of 13	William Shang, MD wshang@yahoo.com
See accompanying article on page 18	Cortland Memorial Hospital 134 Homer Ave., Cortland, NY 13045 607-756-3621 www.geocities.com/wshang/
Name of anatomic pathology system	Integrity
First ever AP system installation/most recent AP system installation	1996/2004
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts signed between Oct. 1, 2004–Oct. 1, 2005	2 hospital contracts† —
No. of sites operating AP system Percentage of installations standalone	unknown (many downloads)† —
Staff to develop-install-support-other**	1 total
In entire company In LIS division (including AP)/in AP systems only	1 total —
No. of interactive terminals (user workstations) in sites operating system	1–6
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	4,000–5,000 0–11,000
Central hardware or service type	_
Terminals/workstations or PC platform Innovative peripherals	PC platform voice input, others
Network installation required?/networks supported	no
Programming language(s) Databases and tools used	Visual Basic for Access Access 97, 2000
Word processor(s) used	_
Operating system(s)	Windows 95, 98, 2000, XP
Features (listed as a percentage of live installs or based on availability) • Surgical pathology information system	100%
Cytology information system	50% 50%
Autopsy information system Specimen log-in	50%
Entry of block IDs Specimen labels	0 0
Histology slide labels	0
Bar-coded slide labels Histology worksheets	0 0
Word processing—vendor specific Word processing—standard tools (Word WordPorfoot)	0
Word processing—standard tools (Word, WordPerfect) Voice entry of gross description	50%
Back-end batch voice to text Gross and microscopic images integrated in reports	0 50%
Electronic signature	100%
Remote printing of completed reports Direct fax reports	50% 50%
Web-based remote inquiry of reports Physician Web spaces for order entry	0
Physician Web access for order entry Natural language search capability	100%
SNOMED II/SNOMED CT Multi-site or multi-facility-wide area network	0 50%
Sound-alike retrieval of patient history	0
Autopsy measurements and organ weights Tumor registry reports	n/a 50%
Management reports Cytology abnormal—unsatisfactory list to doctors	0 50%
Cytology diagnostics statistics by pathologist or cytotechnologist	50%
Histology-cytology correlation report Reports sufficient to comply with CLIA '88 regulations	50% 50%
Comprehensive billing and accounts receivable	100% 0
HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	0
Interface to external billing system Partin tables or Gleason score calculations	0 not available
Synoptic reporting	available but not installed
Specimen tracking and retrieval Client services module	100% not available
Consult management and reporting	100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no —
No. of installations that use system to automatically transfer tumor diagnoses to a tumor registry	-
Complete AP application service provider solution?	no
Method of charging for ASP service	_
Client software required ASP information conduit	_
Client contracts supported from data center not operated by client How data center is operated	Ξ
Other information systems interfaced	_
Voice-recognition packages integrated with AP system	Dragon Naturally Speaking
Histology and cytology laboratory instruments interfaced User interface in language other than English?	none no
Source code?/user group?	yes/no
User can modify screens?	yes
Cost (hardware/software/installation and training/monthly maintenance)	
Smallest stand-alone system/ Largest stand-alone system	Ξ
Base price of integrated system, excluding AP configuration	Ξ
 Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration 	Ξ
Distinguishing features (supplied by vendor)	no cost for software
	open architecture for individual modifications "mini" shareware exists for those wanting pull-
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	down menus to be exported to existing AP system
**other=sales, marketing, administration, and other company functions	† freeware, open architecture

Tabulation does not represent an endorsement by the College of American Pathologists.



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