

**NOW PATHOLOGISTS CAN WORK FROM ANYWHERE
BY INTERNET!**



PATHLOGIX®

**SUPERIOR SOFTWARE FOR
ANATOMIC PATHOLOGY
AND SURGERY**

**BILLING SOFTWARE
AND BILLING SERVICE**

INFORMATION PACKET

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Important!

The use of PATHLOGIX[®] software and the rights and obligations of the parties are set forth in and subject to the License and Conditions of Use Agreement which may be viewed through the "Getting Started" menu of the software. As a condition of use, physicians who issue reports produced with this software and all others who use this software must be familiar with and accept the License and Conditions of Use Agreement applicable to the version of the software being used.



PATHLOGIX[®]

Introduction and Overview

The Company

PATHLOGIX[®] Corporation is a privately-held, rapidly-growing, and debt-free software company that takes pride in providing superior software and excellent service to its professional clients.

The company's principals have a wide breadth of experience in computer technology/software development, health care, senior management, and physician practice.

Due to the high quality of its software and service, *PATHLOGIX*[®] has installed 85 highly-sophisticated software systems across the United States.

The Software

PATHLOGIX[®] is powerful, user-friendly software designed to generate comprehensive anatomic pathology, cytology, and surgery reports, to instantly retrieve information, to assist marketing efforts, to analyze data, to help users meet regulatory requirements quickly and inexpensively, and to maximize collections. It is designed for speed, efficiency, and ease of use. It has many advanced features beyond other systems.

PATHLOGIX[®] is used throughout the United States in general pathology laboratories, dermatopathology laboratories, hospitals, large medical centers, and physician offices.

Among its advanced Internet features, *PATHLOGIX*[®] software allows referring physicians to post new requisitions online, and to look up and print current and past Surgical Pathology cases. With the Internet, *PATHLOGIX*[®] enables pathologists to work from anywhere.

Histology and pathology are fully integrated so information is entered only once. *PATHLOGIX*[®] makes this possible even when the histology is done by a separate organization at a separate location.

Software modules are contained on CD or downloaded from the Internet. *PATHLOGIX*[®] will assist you with online software installation, which usually takes less than an hour.

PATHLOGIX[®] has been designed for ease of on-line use and service. The data files may be easily sent over any secure system, and client access to patient records can be added at very low cost.

PATHLOGIX[®] state-of-the-art software facilitates production of anatomic pathology, cytology, and surgery reports. *PATHLOGIX*[®] helps system users analyze and build their practices and helps them meet numerous regulatory requirements. *PATHLOGIX*[®] is designed to maximize efficiency and save keystrokes at every step. A simple surgical pathology report can be generated in less than 60 seconds including



demographic input, site and specimen information, and diagnosis. A cytology report takes just a few seconds of pointing and clicking to enter pre-loaded and easily modified phrases and templates.

Efficient design makes *PATHLOGIX*[®] software highly cost-effective. Automatic retrieval and entry of a returning patient's procedure history, appropriate use of preloaded text, and easy on-screen editing of reports using standard word processing techniques are basic conveniences. In the surgical pathology module, pathologists can also implement voice recognition, access images linked to cases and glossaries, and order and track special stains. These features promote speed and accuracy of reports, save transcription costs, and improve turn-around time.

If the pathologist prefers, free text can be entered from dictation.

Sophisticated analyses are at the user's fingertips. There is easy access to case lookups, results of powerful database searches, reports for regulatory compliance reviews, and more.

User Friendly

PATHLOGIX[®] design has always been guided by physicians who use the software. Highly flexible yet sophisticated, *PATHLOGIX*[®] is menu-driven and easy to learn. It is so intuitive that a user with limited computer skills can produce an entire report quickly and effectively. Point-and-click navigation between cases according to many criteria is efficient. Information entered once is stored in a database for fast retrieval and analysis. Acceptance of *PATHLOGIX*[®] in the market has been exceptional. In the nine years since the software's beginnings, users across the country have adopted and installed *PATHLOGIX*[®].

Quick Installation

PATHLOGIX[®] is surprisingly quick to install and easy to maintain. This translates into cost savings both now and in the future.

For Multi-Pathologist Use

Most analysis reports can be compiled separately for each physician. Doctors can specify different report formats. Each physician can access personal glossaries, hiding those of other group physicians. Physicians may have different accession number styles. The incomplete cases of each pathologist can be looked up independently. Many other setup, pathologist, and clinician features cater to the wishes of the individual physician.

For Large Users

PATHLOGIX[®] can be configured to process data input quickly and easily at the rate of several hundred thousand or more specimens per year. Special methods of inputting cases that minimize network traffic have been developed for high volume users.



For Hospitals

For hospitals, the license purchase price includes features of the surgical pathology, cytology, image management, and database search systems. The following are also included in the hospital package:

- Benchmarking capabilities
- Image library capability
- Analysis reports to assist in compliance reviews

Networking

PATHLOGIX[®] is ready for networking. It also operates on stand-alone computers. *PATHLOGIX*[®] requires no proprietary hardware. Updates and upgrades are thereby facilitated with minimal disruption and expense.

Interfaces

Interfaces with HL7 and with other billing software are available. Additional interfaces can be arranged at modest cost.

Online Demonstrations and Training

Online demonstrations and training can save you and your staff a considerable amount of time. They are the fastest and easiest way to become familiar with *PATHLOGIX*[®] software and to learn to use it.

Onsite Training Visits

A training visit by *PATHLOGIX*[®] technical staff may be arranged upon request. Call for details.

Online Service

Problems seldom occur. When they do, *PATHLOGIX*[®] technical staff is usually able to give immediate online service.

Since its inception, the development of *PATHLOGIX*[®] software has been inspired and guided by the many pathologists who use it. Users continue to guide and inspire new design features.

Compatibility and Use

PATHLOGIX[®] is available for Windows and Vista operating systems. It is usually used on multiple workstations across a network.

Point and click entry of data is fast and flexible. This allows those with even modest computer skills to quickly and easily master use of the software.

PATHLOGIX[®] can easily accommodate input at the rate of hundreds of thousands of specimens per year by an unlimited number of users.



PATHLOGIX[®] offers many advanced and unique features in each software module including image management, electronic case sign-out, research options, and business analysis.

PATHLOGIX[®] software can link any images available to it through the server to a diagnosis.

Laboratory inspections need not be an intimidating event for laboratory staff. *PATHLOGIX*[®] software is specifically designed to record and capture information in a way that helps facilitate full compliance without redundant manual work.

The Costs

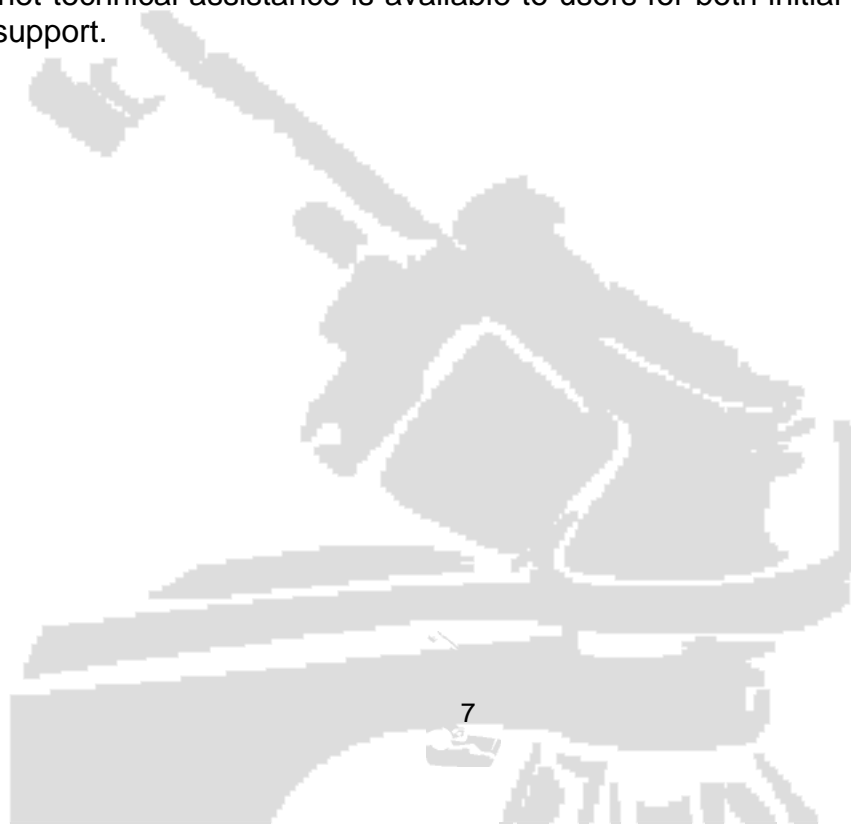
Cost containment is a necessity of life in all laboratories and hospitals. *PATHLOGIX*[®] pricing reflects this reality. *PATHLOGIX*[®] initial cost is significantly less than like-featured competitors, and the software provides more user-friendly and sophisticated options. It also offers lower continuing costs. No proprietary hardware is required.

High-volume pathologists may purchase an unlimited-use license. A license based on your facility's specimen volume is also available.

The Future

PATHLOGIX[®] is a leader in the dynamic field of pathology software. The company's principals believe that efficient reporting, data retrieval, and analysis of information greatly benefit both the physician and the patient through timely reporting of results and effective use of accurate data in the delivery of quality health care.

PATHLOGIX[®] continuously enhances its software options and features. Telephone and Internet technical assistance is available to users for both initial installation and ongoing support.



Surgical Pathology Software

Partial List of Features

1. Glossaries

PATHLOGIX[®] software provides for the use of preloaded text for gross descriptions, microscopic descriptions, diagnoses, comments, and addendums. A glossary with more than 800 diagnoses and microscopic descriptions is preloaded for easy editing and customization. The user may quickly add and edit descriptions using Microsoft Word techniques. Free text can be typed in or transcribed from dictation or voice recognition.

2. Patient Procedure History

The sophisticated procedure history feature searches the database of existing cases for a given patient's prior biopsies. The results of the automatic search are visible on screen (and, if desired, on the printed report) without additional keystrokes. Procedure history for surgical pathology appears for cytology and vice versa.

3. Special Stains Tracking

Order additional slides such as special stains and deeper levels for a given case. A report of that day's special stains order can be printed for the laboratory that prepares the slides. Pending additional slides receive special attention until they are received and read.

4. Histology

The *PATHLOGIX*[®] histology system is fully integrated with the surgical pathology software. This significantly increases the speed and efficiency of both histology and pathology activities. Information is entered only once, even if the histology is done by an outside laboratory at a separate location.

5. Internet

Companion *PATHLOGIX*[®] software is available that lets pathologists work from anywhere by Internet, that enables referring physicians to post information on new cases, and that enables referring physicians to look up, retrieve, and print past and current surgical pathology cases over the Internet.

6. Billing

PATHLOGIX[®] billing software and service is available, and billing interfaces to other billing software are available or can be provided.

7. Electronic Signature

Cases can be signed electronically. The pathologist inputs his or her personal code to simultaneously sign and finalize the case.



8. Automated Lookup of ICD-9 and CPT Codes

ICD-9 and CPT codes can be linked to descriptions and automatically looked up or can be entered individually. The ICD-9 code and CPT codes are sent to billing software or are printed on a charge list (billing report) to increase accuracy and save staff time. The codes also print out on the pathology report if desired.

9. Billing Report (Charge List)

The charge list reports all the cases completed on a certain day or during any specified time period, along with the relevant billing information. The date of service for pathology is efficiently separated from the date of service for obtaining the specimen itself, thereby increasing the financial collection rate.

10. Amended Report Facilitator

Amended reports, addenda reports, corrected reports, and other types of additional reports are generated quickly and easily by making maximum use of information contained in the original report.

11. Diagnosis Searches

The database of existing cases can be searched according to key words or letters in the diagnosis. If desired, searches can be limited to a certain pathologist or referring physician or a specified time period.

12. Accession Log

The accession log reports cases according to date received. If desired, the log can be prepared for each pathologist or referring physician or for any specified time period. It can be printed by flexible criteria, such as alphabetically by the patient's last name.

13. Biopsy Log

The biopsy log reports cases according to date received. The log contains a wide range of information including the diagnosis. The report can be prepared for each individual physician and/or by any designated time period.

14. Pathology Follow-up Log

A log records the results of a search for cases that have a treatment plan but do not document that treatment has been performed. This enhances communication between the doctor and staff arranging follow-up treatment. It helps prevent biopsies of malignancies from "falling through the cracks." This feature improves patient care and may reduce the likelihood of accusations of medical malpractice.

15. Malignancy Rate Analysis

Medicare auditors sometimes request an analysis of the percentage of malignant cases. The malignancy rate analysis helps the physician monitor his/her percentage of malignant cases. Diagnoses are classified as malignant,



pre-malignant/atypical, inflammatory or benign. The computer calculation is made for any time period specified by the user.

16. Treatment Record

Summarize at a glance the results of a search of the database for all biopsies for a given patient. This is useful to have in the clinic charts of patients with a history of multiple biopsies.

17. Clinical History

If clinical history is entered, it will appear as a section of the report at the discretion of the user.

18. Frozen Sections

If frozen sections are entered, they will appear as a separate section of the report.

19. Special Formats

Fully integrated special report formats are available for bone marrow, flow cytometry, immunoperoxidase, immunofluorescence and electron microscopy reports.

20. Incomplete Case Log, Including 'Reason Why Incomplete'

Print out a list of cases that *PATHLOGIX*[®] software has identified as being incomplete for a given pathologist, clinician or range of dates.

21. Reports Customized to User Preferences

Select from four convenient report formats according to individual preferences of the user.

22. Image Management

Link images to cases. Put images on reports. Store images anywhere in the organization's computer network. The user can build his/her own slide library or access others. Images can be of histology slides, of scanned-in diagrams, or of gross photographs, for example.

23. Database Search for Research

To aid research and analysis of your practice, *PATHLOGIX*[®] advanced capabilities facilitate search of the database by key words in various parts of the report using sophisticated criteria and desired limitations.

24. Slide and Bottle Labels

PATHLOGIX[®] prints slide and bottle labels with up to eight lines of information on each label. As this feature is integrated with the main pathology database, the demographics come automatically from previous input on a given case.



25. Flag Cases

Flag a case for any purpose, such as review or follow-up, and later look up the flagged cases.

26. Case Notes

Make private notations that will not appear on reports. This is useful for making quality assurance notations, documenting interesting cases, and signaling that a case is held for a certain conference. Search the database by key words in this notes section and then easily retrieve cases by that specific notation. This has proven to be a very popular and useful item.

27. Accession Numbering Options

There are several accession-numbering options for maximum flexibility. Accession numbers can be assigned automatically or manually.

28. Turnaround Time Analysis

Reports may be selected for any time period, by any range of accession numbers, by pathologist, by any of six other categories, or for the entire lab. On each report, the number of cases and the percentages of cases with same-day turnaround, one-day turnaround, etc. are shown. Times are shown for all cases and for cases that do not have special stains.

29. Automatically Fax Surgical Pathology Reports

Reports may be automatically faxed by clicking a button on the case entry form.

30. Second Clinician and Second Pathologist

If a second clinician and/or a second pathologist is entered on the case entry form, the second physician(s) will appear on the report.

31. Additional Efficiency Features and Services to Referring Physicians

PATHLOGIX[®] software includes many other features to increase efficiency and to provide additional services to referring physicians.

32. Analyze Quality Assurance Consultation Results

Track quality assurance results. The number and percentage of cases in which there is agreement, minor disagreement, and major disagreement are reported. The analysis report can be limited to a certain pathologist if desired.

33. Security - Information Entry and Editing

PATHLOGIX[®] software adds to the security provided by the network security system (where applicable) or individual-station security measures by enabling the user to assign the following deterrent-level permissions: read-only, entry of demographic and site information but not diagnoses or finalization, entry of everything except finalization, and pathologist-level permission for everything. In addition, permission to add, edit, or delete glossary items can be restricted.



34. Security - Log

This feature keeps a log of almost all entries into the system including the information entered, a timestamp, and the security code of the person making the entry. The log can be set to purge itself automatically after a number of days that you specify.

35. Customized Fields

In the unlikely event that the user wishes to record information which the program does not accommodate, the user can create and label customized fields.

36. Help Buttons and tips that appear when you rest the cursor on a field

PATHLOGIX[®] software has help buttons and tips throughout the program that conveniently and quickly guide the user through various screens with instant on-screen information. These buttons can be hidden or disabled when/if they are not needed.

37. 100+ Additional Features

Many features help you to quickly and easily provide a wide range of services to you customers. Many features enable you to customize reports. Many features cater to a wide range of preferences of individual pathologists. Many features help you to run your business. In all, there are more than 100 features that are not listed above.



Cytology Software *Partial List of Features*

- 1. Point-and-click selection of changeable pre-loaded text speeds entry**
Statements for Adequacy, General Categorization, Interpretation/Results, Notes and Suggestions are preloaded for optional point-and-click selection. Text used by other pathologists can be easily modified by the user globally and on a case-by-case basis.

- 2. Patient Procedure History**
The sophisticated procedure history feature searches the database of existing cases for a given patient's prior biopsies. The results of the automatic search are visible on the screen without additional keystrokes. The results of the procedure history search for surgical pathology appear for cytology cases and vice versa.

- 3. Accession Log**
The log reports cases according to date received. If desired, the log can be prepared for each physician or any specified time period. It can be printed by flexible criteria, such as by date received or alphabetically by the patient's last name.

- 4. Random Quality Control**
The user can adjust the percentage of low and high-risk cases selected for random quality control.

- 5. Abnormal Cytology Findings**
This report lists cases with abnormal diagnoses.

- 6. Personalized Approval Codes**
Each cytotechnologist and pathologist may enter a personal code to approve entries of his/her findings. The impressions of the cytotechnologist, supervisor, and pathologist are stored in the database for analysis.

- 7. Finalize**
When the final diagnosis has met the criteria for approval, the case may be finalized to prevent inadvertent changes.

- 8. Comparison of Diagnoses**
The cytotechnologist and pathologist impressions are printed side by side in the Cytotechnologist Diagnosis Comparison analysis report. The QC (Quality Control) result is also listed. The percentage of agreements, minor disagreements and major disagreements is calculated.



9. Agreement with Cytotechnologists

This report lists for each cytotechnologist the percentage of agreements, minor and major disagreements.

10. Major Diagnosis Upgrades

The major diagnosis upgrades report prints out the cases in which a notation has been made that a rescreen of a normal or negative impression resulted in reclassification as malignant or premalignant.

11. Workload Analysis—Cytotech Daily and Hourly Workload Reports

The daily workload report prints the number of cases signed by each cytotechnologist for the dates specified. The hourly workload analysis reports the number of cases signed by each cytotechnologist each hour during the specified dates.

12. Diagnosis Searches

The database of existing cases can be searched according to key words or letters in the diagnosis. Searches can be limited to a certain physician or a specified time period, if desired. A report lists the cases found, along with the diagnoses.

13. Automated Lookup of ICD-9 and CPT Codes

ICD-9 diagnosis codes can be linked to interpretations, such as Bethesda phrases. CPT procedure codes are calculated using an algorithm based on the specimen source, the test performed, the reporting method, and whether the physician has interpreted the case. Automated ICD-9 and CPT code selections can be edited by the user, or they can be entered on a case-by-case basis. The user also has the flexibility to edit the ICD-9 and CPT code algorithm defaults. Direct access to the code selection tables makes it possible for the user to incorporate changes in the codes.

15. End-Of-Report Messages

A message can be printed at the end of all reports if the user chooses. This is commonly used for legal disclaimers.

16. Reminder Date

A reminder date and reason can be recorded. Cases can be looked up by reminder date.

17. Slide Labels

PATHLOGIX[®] prints bottle and slide labels with up to eight lines of information on each label. This has the advantage that demographics are input only once because the labeling program is integrated with the main pathology database.

18. Specimen Tracking: Date and Time Stamps



For regulatory requirements and for analysis, the dates and times (hours, minutes, and seconds) of the following activities are recorded by the system: accessioned, last edited, slides ready, diagnosis produced by cytotechnologist, diagnosis reviewed by supervisor (when required), diagnosis reviewed by pathologist (when required), complete, finalized, and report issued. An additional optional timestamp is provided.

19. Diagnosis Groups

Pro-programmed diagnosis groups (Unsatisfactory, Within Normal Limits, Benign Cellular Changes, Atypical, Low Grade SIL, High Grade SIL, Suspicious for Malignancy, Positive for Malignancy, and Other) may be assigned and then used in a variety of analyses and reports.

20. Cytotech Diagnosis Review

For each cytotechnologist and for any time period selected, the number and percent of 'Unsatisfactory', 'Within Normal Limits', 'Benign Cellular Changes', 'Atypical', etc. are shown and are compared with the number and percent for the entire lab.

21. Referring Physician Summary by Diagnosis Category

This useful analysis of referrals also provides information which is useful to referring physicians.

22. Cytology Quality Assurance Report

This comparison between the original diagnosis, the re-screener diagnosis (if any), and the pathologist diagnosis is used for training, for review, and for compliance with regulatory requirements.

23. Cytology Case Review Statistics by Diagnosis Group

The diagnosis category findings of each cytotechnologist is compared with the entire laboratory. The results are presented in absolute numbers and in percentages.

24. Comparison Between Gynecology and Histopathology Diagnoses

The diagnoses and other relevant information may be entered, and the user may enter discrepancy notes and data which can then be used for training and to help meet regulatory requirements.

25. Unsatisfactory Specimen by Referring Physician

Unsatisfactory specimens are time-consuming and costly. This analysis provides the information that is needed to reduce the number of unsatisfactory specimen.



26. Five-year Retrospective Review

A five-year retrospective review is needed for patient care and to meet regulatory requirements. Review information may be presented according to a wide variety of criteria.

27. Summary of Gynecology Cases for Referring Physicians

This report is prepared for each referring physician and provides an important service to the referring physicians.

28. Pathologist Sign-out Summary

This important tool helps the laboratory function smoothly and efficiently.

29. Automatically Fax Cytology Reports

Reports may be automatically faxed by clicking a button on the case entry form or by using the batch faxing feature.

30. Cytology Turnaround Time Analysis

Reports may be selected for any time period, by any range of accession numbers, by pathologist, by any of six other categories. On each report, the number of cases and the percentages of cases with same day turnaround, one-day turnaround, etc. are shown.

31. Help Buttons

PATHLOGIX[®] software has help buttons, which facilitate the navigation through screens without the need to refer to other manuals or printed material. These can be hidden when preferred.



Surgery

Whether you practice MOHS surgery, general surgery, or any other surgical specialty, *PATHLOGIX*[®] software can speed reports, enhance their appearance, improve accuracy, and make information immediately available.

You will never have to enter the same text more than once. All text can be easily saved and retrieved when you need it again.

Call *PATHLOGIX*[®] at 858 454-8030 for an on-line demonstration.



Billing software and services

PATHLOGIX[®] software and billing services make maximum use of automation to increase collections, to reduce the time that you and your staff will need to spend, and to minimize cost.

Call ***PATHLOGIX***[®] at 858 459-8030 for an on-line demonstration.





PATHLOGIX[®]

Advantages for
High Volume Users

MAJOR SOFTWARE ADVANTAGES FOR HIGH VOLUME LABORATORY OR MEDICAL CENTER USERS

1. *PATHLOGIX*[®] can be easily accommodate input at the rate of several hundred thousand specimens per year by an unlimited number of users.
2. The system works across a network with speed and efficiency. It provides excellent results for a multiple computer workstation environment normally experienced with high volume users. There is no additional charge for software use in a network.
3. The system is readily installed and taught within a matter of hours, not weeks or months. The simplicity of the system makes it possible to train existing staff and to train new staff without relying on time consuming and expensive outside support.
4. *PATHLOGIX*[®] operates without the need for custom hardware. As a result, a laboratory may purchase its computer hardware from multiple competing vendors leading to thousands of dollars in savings.
5. *PATHLOGIX*[®] has been specifically designed for ease of use with the Internet. Using the optional Internet module, the data files may easily be sent over any secure system, and client access to patient reports can be added at very low cost. As the Internet becomes more significant in the pathology laboratory, *PATHLOGIX*[®] software users will help to lead this emerging trend.
6. The system has several extremely powerful search engines built into the software. This is critically important for large users when they must access history files, conduct efficient ongoing research with minimal labor costs, develop practical and effective quality assurance programs, and provide necessary data for compliance, analysis, and management requirements.
7. *PATHLOGIX*[®] provides for the use of preloaded text for gross descriptions, microscopic descriptions, diagnoses, and comments. More than 800 diagnoses and microscopic descriptions are preloaded for easy editing. The physician may quickly add and edit glossaries using Microsoft Word techniques. This feature allows high volume users to produce hundreds of high quality reports daily without the need for costly expansion of the institution's transcription pool.
8. Imaging is increasingly important in large pathology laboratory reporting. The *PATHLOGIX*[®] image management feature links images to cases and to glossary



items. The user can build his/her own slide library, or access others. The images can be accessed from multiple sources worldwide. This may include microscopic images from histology or cytology slides, scanned-in diagrams, gross photographs, clinical photographs and other sources. Store the images anywhere in the organization's computer network.

9. Large users typically have an organizational need for extensive quality assurance and quality control programs (QA and QC). *PATHLOGIX*[®] is designed to facilitate these requirements through the automatic selection of cases for QA, specimen tracking and time stamps, and various QA/QC analyses. Extensive archiving capability preserves the records of patients for follow-up studies and research.

10. *PATHLOGIX*[®] advanced capabilities facilitate search of the database by key words in various parts of the report that meet sophisticated criteria and desired limitations. This critical feature aids both research and practice analysis, with minimal labor expense.

11. *PATHLOGIX*[®] can provide billing software and services. *PATHLOGIX*[®] can also provide interfaces to accommodate the needs of users that wish to use other billing systems.

12. Tracking aids and the reporting of special stains, deeper levels, and other additional slides are an integrated part of the *PATHLOGIX*[®] system.

13. Business and practice analysis capabilities become increasingly important as volumes increase. Several large users who have compared *PATHLOGIX*[®] with the other major systems have reported that the analysis capabilities of *PATHLOGIX*[®] are considerably greater than those of perceived alternatives.

14. Large institutions normally find that *PATHLOGIX*[®] software costs considerably less than other leading software. It is not unusual to realize savings of 50% or more on the initial purchase, and even more when both ongoing service and upgrade costs are considered.



FREE ON-LINE INSTALLATION AND TEST

It would be a mistake to buy software without thorough testing by you and your staff in your office on your computer system. *PATHLOGIX*[®] provides:

- Free on-line installation of software for testing before your initial purchase.
- Free one-month test before you purchase a license.
- Unlimited on-line training during the test period.

