Digital Pathology

Accelerate pathology interpretation and result delivery times with a digital platform that streamlines diagnosis.

Pathology is one of the most critical elements to achieving an accurate diagnosis for a patient. Unfortunately, it's also one of the most time consuming. The practice of preparing and interpreting slides of tissue samples or bodily fluids can often take several weeks — keeping clinicians and patients waiting and delaying diagnosis and treatment. Any steps taken to accelerate this time cycle can go a long way toward improving patient care and clinician satisfaction.

Digitization finally comes to pathology

Even in today's modern age of medicine, the study of pathology is largely manual and based on the examination of physical specimens using a microscope. This process can prolong the interpretation process by requiring pathologists to be on site at a hospital or lab to view and clinically analyze specimens. This location-based time constraint has become even more profound in recent years given the growing shortage of available pathology professionals.

However, digitization has finally come to pathology, providing pathologists with the freedom to view digital images of specimens from anywhere at any time. Our latest release of Acuo VNA (Version 6.0.4) and NilRead digital pathology viewer address the specific image interpretation and workflow requirements of pathologists.

Key features:

▸ Acuo VNA and NilRead digital pathology viewer equipped to ingest and read special DICOM SOP Classes to Pathology

▸ Acuo VNA and NilRead also capable of inherently ingesting and managing JPG macro images of tissue samples

▸ NilRead digital pathology viewer mimics the microscope-based pathology user experience
  · White-viewer background
  · Forced horizontal or vertical image panning (no diagnonal)
  · Specialty-specific structuring of pathology studies
  · Support for 4K monitors

▸ Web-based, zero-footprint NilRead module allows pathology image interpretation to be performed from anywhere on nearly any device

Key benefits

▸ Pathologists gain the freedom and flexibility to complete specimen image interpretation from anywhere on any device, increasing the speed with which they can deliver a meaningful diagnosis

▸ Clinicians and patients receive pathology results quicker, leading to faster, more accurate diagnosis and treatment

▸ Clinicians can view pathology images side-by-side with other types of imaging studies, providing added convenience and enhancing diagnosis

▸ Acuo VNA can manage larger data sets at higher speeds than traditional image archive systems — a must for pathology images that are typically several times larger than typical radiology studies

▸ Digital pathology sets the stage for eventual lifecycle management of glass pathology slides, which can result in a significant reduction in infrastructure costs

NilRead™
by Hyland

NilRead digital pathology in action

- Built on the open standard, DICOM for Pathology (Supplement 145)
- Class–leading pathology rendering engine for high resolution imaging
  - Pathologists can interaction in full quality with their whole side imaging (WSI) at 8 megapixels and higher
- Supports natural pathology workflow and tray metaphor
- Integrates with laboratory information systems (LIS) and pathology quantitative solutions

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