SOLUTION OVERVIEW | HYLAND HEALTHCARE

# DIAGNOSTIC DIGITAL PATHOLOGY

Pathology is one of the most critical elements needed to achieve an accurate patient diagnosis, but it is also one of the most time consuming. The practice of preparing and interpreting tissue sample or bodily fluid slides can take several weeks, delaying diagnosis and treatment. The ability to accelerate the process can help improve patient care and clinician satisfaction.

## DIGITISATION FINALLY COMES TO PATHOLOGY

Even in our modern age, the study of pathology is still largely manual, based on the examination of physical specimens using a microscope.

These traditional techniques can prolong the interpretation process by requiring pathologists to view and clinically analyse specimens on-site in a hospital or laboratory environment. Giving the growing shortage of available pathology professionals, this location-based and often time-based constraint has become an even greater obstacle in recent years.

Digitisation of pathology can pave the way to a solution by providing pathologists with the freedom to view digital slide imaging remotely and by giving laboratories the ability to improve productivity and determine diagnoses faster with their existing pathology staff.

## HYLAND DIGITAL PATHOLOGY SOLUTION

Hyland's Digital Pathology solution, based on our Acuo VNA and NilRead digital pathology viewer, is designed to address the specific image interpretation and workflow requirements of the pathologist while empowering laboratories to overcome challenges associated with traditional techniques.

## KEY FEATURES:

- A digital pathology viewer-based user experience
  - Virtual microscope functions
  - White-viewer background
  - Forced horizontal or vertical image panning (no diagonal)
  - Specialty-specific structuring of pathology studies
  - Support for 4K monitors
- Web-based, zero-footprint viewing technology that allows users to perform pathology image interpretation remotely on nearly any device
- A digital solution that 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
- A solution equipped to ingest and read special DICOM SOP Classes to pathology and capable of inherently managing JPG macro images of tissue samples

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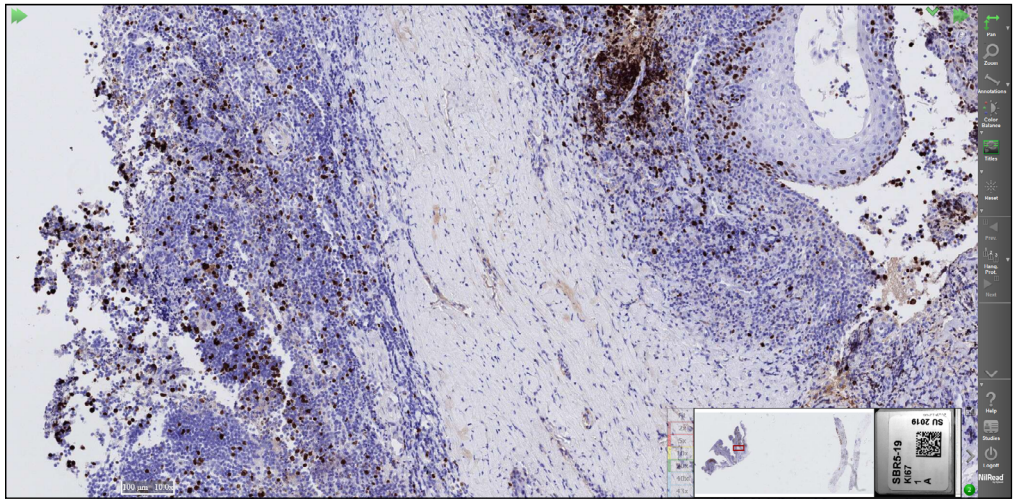
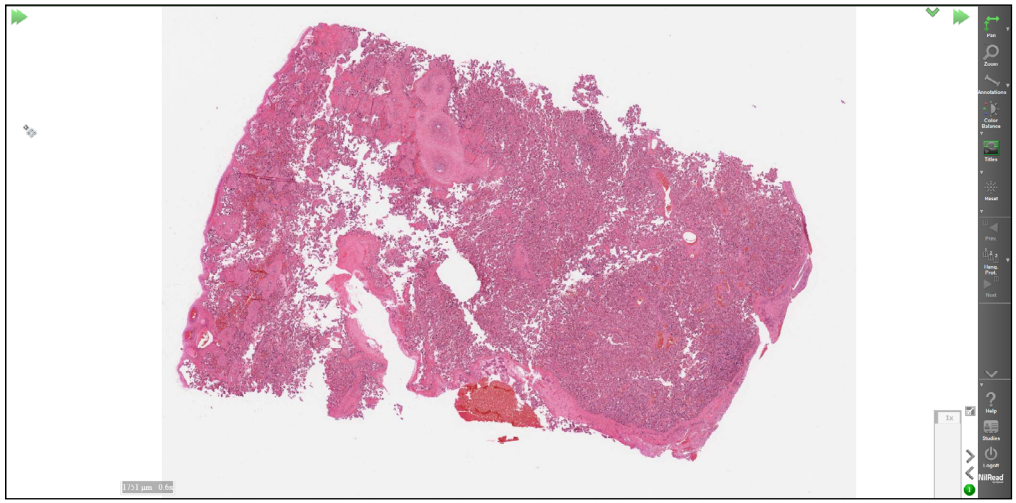
## KEY BENEFITS

- **Faster, more accurate diagnosis:** Digitising workflow makes the process more efficient, therefore quicker
- **Productivity improvements:** Gives pathologists the ability to work remotely, reducing costs and delivering workflow improvements that benefit the bottom line
- **Material savings:** Cut overhead dramatically by removing the need to purchase glass slides, coverslips, adhesives, dyes or as much paper
- **Enhanced viewing:** Share the ability to view pathology images side by side with other imaging studies, providing convenience and possibly enhancing diagnosis
- **Analytics and reporting:** Reporting provides access to tools that better manage the laboratories' workload and performance
- **Infrastructure cost reduction:** Digital pathology sets the stage for eventual lifecycle management of glass pathology slides, which can result in a significant reduction in infrastructure costs

## 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 interact with their whole side imaging (WSI) at 8 megapixels and higher
- Supports natural pathology workflow and tray metaphor
- Integrates with laboratory information systems (LIS/LIMS) and pathology quantitative solutions





Learn more at **HylandHealthcare.com/Enterprise-imaging**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