Integrated Image Management
Delivering Support for Digital Pathology

- Any image from any device irrespective of manufacturer
- Supporting clinical excellence through freedom to choose best of breed solution
- LIMS integration with patient demographics recorded in context with the image
- Delivering quality and patient safety improvements
- Data governance
- Patient centric image management and workflow
- Supportive of modern workflows and Multi Disciplinary Team meetings
- Images saved centrally and securely and accessed via a single viewer
- Provides greater IT connectivity and traceability; supports QIPP agenda
- Access to diagnostic quality images from any client
- Supports multi-site networked pathology services
- Image captured in its native format making it immediately available
- Fully traceable with comprehensive audit trail
- Supports Vendor Neutral Archive
- Compliance with wider organisational strategies
- Delivering a truly scalable and networkable solution
- Images saved centrally and securely and accessed via a single viewer
- Provides greater IT connectivity and traceability; supports QIPP agenda

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Picsara has been developed to support the emerging requirements for digital imaging in pathology and to resolve the common issues in accessing and managing images that are currently experienced. Pathology images are currently typically stored outside of the LIMS, which creates a disconnect between the pathology event and the image. Images are often stored in various formats, including some proprietary to the device, and are viewed either locally or not at all. Due to a lack of a common storage solution, images are rarely being stored or saved, and are not integrated or shared outside of the pathology department.

Using a common imaging solution for all images together with integration with CliniSys LIMS, Picsara addresses the increased call to share, review, save and link images to the hospital infrastructure in line with the principles of interoperable IT connectivity, essential for the drive for greater efficiency highlighted in Lord Carter’s report and the QIPP agenda.

Picsara saves the image in its native format making it immediately available to any interested clinician and all processes are recorded in a comprehensive audit trail. Having the image fully integrated with the CliniSys LIMS and with all necessary patient demographics recorded in context with the image, Picsara provides improved levels of patient safety and is fully supportive of data governance requirements with patient centric images.

Total Flexibility

A key benefit of Picsara is the production of diagnostic quality images at the point of capture. Picsara is compatible with most image capture devices and images irrespective of the manufacturer. Gross macro images, micro images from microscope mounted cameras, molecular imaging, electron microscopy, autopsy images, whole slide scanners are just a few of the image types that can be supported through Picsara.

CliniSys fully understands that workflows and working practices differ from customer to customer. To support our customers, Picsara has been developed to be extremely flexible and totally configurable to individual needs. Picsara will be deployed preconfigured to best operate and integrate with the CliniSys LIMS workflows. However, all views, toolbars and workflows within Picsara can be configured to work best for the user ergonomically and different imaging workflows can be configured per investigation or user case.
Architecture Overview and Workflows

Picsara’s architectural design operates with a central sever based solution or can be enhanced to work with a Vendor Neutral Archive therefore complying with wider organisational strategies and delivering a truly scalable and networkable solution. The Picsara architecture supports biomedical staff and clinicians who may be working at separate and remote locations. Being a departmental and/or organisation wide solution, Picsara is supportive of the evolving workflows observed as a result of the increasing prevalence for multi-site pathology services. Images can also be easily distributed / accessed for teaching and multidisciplinary team meetings purposes.

Comprehensive Toolset for Clinical Study

The image viewer within Picsara is a high end multi-modality image display application. It enables diagnostic quality images to be viewed, analysed and annotated on a standard computer screen.

- Full patient context and metadata on all images for data governance
- Image zoom, pan and navigation options with configurable viewing panes
- Image comparison and synchronisation features
- Image rotation and flip
- Video recording and viewing
- Add annotations, which can be burned into the image or handled as layers not to affect the original image
- Calibration at capture and measurement recording
- Count function
- Automated image analysis based on configurable thresholding of the image intensity
- Multiple image linking and association
- One click access to images from the LIMS
- Images are always in context with the Laboratory ID and Patient ID through a seamless, single sign on integration with the CliniSys LIMS