

Eka Hospital Group embraces a digital workflow with CARESTREAM solutions

Need a digital solution that will work across multiple geographically distinct or diverse sites? Carestream Health uses a solutions-based approach to deliver the digital capabilities you need – no matter how small, large or complex your organisation.



The Eka Hospital Group is well on its way to becoming Indonesia's leading healthcare provider following the opening of two sister hospitals, at BSD City and Pekanbaru, in 2008. The healthcare group took great care when designing the new facilities, ensuring that they included the latest, most up-to-date equipment and services where possible, said Specialist Radiologist, Dr Moh. Jauharsyah Hidayat. 'Our mission is to provide quality care for the community by instituting the best of everything – the best professionals, the best procedures, the best facilities and the best management system. Installing the latest digital imaging solutions is part of that.'



Mr Hasan Widjaja, IT Manager

Prior to its partnership with Carestream Health, the hospital group had installed a radiology information system (RIS) from another vendor to enable the sister hospitals to manage and share medical records electronically. It was a logical next step to manage and store radiology images electronically as well, said IT Manager, Hasan Widjaja. 'Quality information systems help our staff to work faster and more accurately. Adding a picture archiving and communications system (PACS) to work alongside our RIS meant we were able to expand the kind of radiology information we keep electronically. We chose CARESTREAM PACS because it had the flexibility to integrate seamlessly with our existing RIS system.'

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The sister hospitals were quick to embrace a completely digital workflow, installing a range of solutions from Carestream Health including the DirectView Elite CR system, DirectView digital mammography feature and DryView 8900 laser imager. These additions complemented the hospitals' use of RIS and PACS, enabling hospital staff to streamline their workflow across the entire imaging chain from order entry to results distribution, said Hasan. 'The CARESTREAM solutions support a more efficient workflow, particularly when it comes to patient throughput, but also in terms of data entry, reporting and processing. A solutions-based approach – considering how one piece of digital equipment can integrate with and support another – has enabled us to capture and share information much more efficiently.'

Dr Jauharsyah Hidayat agrees. 'One of our key objectives was to deliver a faster, more efficient radiology service than you might receive elsewhere. With the help of Carestream Health, we were able to achieve this within a few short months of opening both sites.'

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Digital set-up enables cross-site reporting

By utilising the same digital solutions across both sites, the two sister hospitals can share clinical information and tasks, said Dr Jauharsyah Hidayat. 'This technology allows two radiology departments separated geographically to function as one and to share resources. For example, we can offer a daily reporting service at both sites by enabling clinicians to report images captured at either site.'



Dr Moh. Jauharsyah Hidayat, Specialist Radiologist

'The ability to review and transmit images in high-resolution digital files allows results to be communicated to the physician and patient more quickly. Integration with the internet and email also speeds report turnaround. The adoption of standards such as HL7 and DICOM increases the interoperability of Carestream Health's solutions overall,' he said.

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Remote reporting – from the sister hospital site or from home (after hours, as the case maybe) – is facilitated by employing a suite of digital solutions that act at different points of the imaging cycle but are fully integrated, said Hasan. 'Incorporating teleradiology into our digital imaging strategy delivers reporting efficiencies but also enables us to provide patients and referrers with an out-of-hours imaging service. Choosing a digital set-up that allows us to capture images digitally [e.g. DirectView Elite CR system] and then share those images electronically [CARESTREAM PACS] was a key part of bringing this strategy to fruition.'

For more information about Carestream Health, visit www.carestreamhealth.com

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Clinical benefits augment administrative ease

Improved image quality and more accurate reporting are key benefits of employing Carestream Health's solutions, said Dr Jauharsyah Hidayat. 'CR image quality is much superior to traditional film-screen radiography. In isolation, this will facilitate the reading of exams, diagnosis and reporting, but, when combined with CARESTREAM PACS's powerful reading tools, the overall reporting experience is taken to a whole other level yet again.'



Increased clinician and referrer confidence is a direct consequence, said Dr Jauharsyah Hidayat. 'Our specialist radiologists are able to deliver reports much more quickly and, perhaps even more importantly, they are able to do so with greater diagnostic confidence. In turn, referrers are also more confident with the reports they receive, all of which lead to better patient care.'

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Similarly, powerful tools and system protocols that support accurate data entry or reduce the need to manually re-enter information increase user confidence by reducing the risk of administrative errors that could lead to clinical errors, said Hasan. 'For example, PACS allows images to be associated directly with a patient's electronic medical record (EMR), which minimises the potential for data-entry and processing errors. In general, the ability of the CARESTREAM solutions to integrate seamlessly with other systems [even in a multi-vendor environment] supports the secure and timely transfer of information between imaging modalities and information systems like CR, PACS and RIS.'

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