One patient, one view, multiple clinical perspectives

IntelliSpace Portal and its applications in a multi-modality environment

The customers
Dr. Enrique Ramón Botella
Abdominal radiologist

Dr. Juan Guzmán de Villoria,
M.D., Ph.D.
Neuroradiologist

Dr. Javier Alarcon Rodriguez
Thoracic radiologist

Hospital General Universitario
Gregorio Marañón, Spain:
• Employs nearly 7,500 healthcare
  professionals
• 1,200 beds
• More than 34,000 surgical
  procedures and 870,000 outpatient
  visits per year

The challenges
Provide a flexible and consistent
viewing environment for multiple
modalities in multiple clinical specialties

Support diagnostic confidence and
efficient workflows

The solutions
Oncologic imaging applications on
IntelliSpace Portal
CT Liver Analysis
Multi Modality Tumor Tracking

Neuroimaging applications on
IntelliSpace Portal
MR T1 Perfusion
MR T2* (Neuro) Perfusion
MR Diffusion
MR SpectroView
Multi Modality Tumor Tracking

Cardiac imaging applications on
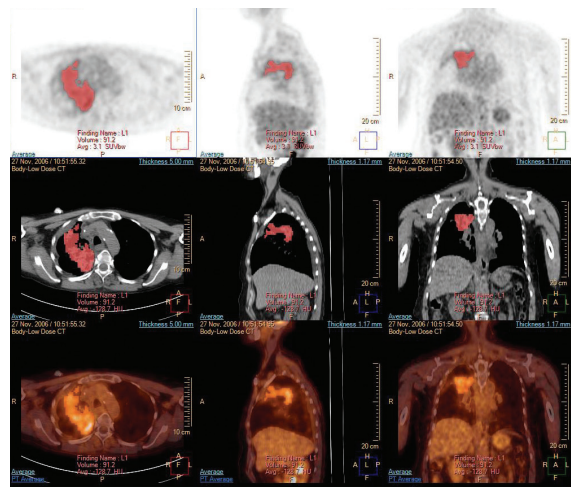IntelliSpace Portal
CT Viewer
CT Advanced Vessel Analysis
CT Lung Nodule Assessment
CT TAVI Planning
Multi Modality Tumor Tracking

When radiologists need to provide fast, efficient input as a basis of treatment planning, that input is ideally delivered in one report covering all relevant modalities. At Hospital General Universitario Gregorio Marañón, neuroradiologists as well as thoracic and abdominal radiologists also prefer to handle their images the same way – as one. They found the answer with IntelliSpace Portal, an advanced visualization and analysis solution from Philips. It links CT, MR, NM, and US data from multiple vendors with ease*, providing a consistent multi-modality viewing and analysis environment across the enterprise. Users are delighted with the quick insight they obtain as well as the added mobility beyond the reading room.

Multi Modality Tumor Tracking

Complex cases require clinicians to review and analyze multi-modality images, as this approach provides deep, comprehensive clinical insight that can support a confident diagnosis. In IntelliSpace Portal, all three teams enjoy a single, robust solution that allows them to accomplish this. It also works well with other systems, such as the PACS, radiology information system, and even

solutions from third-party vendors. For patient follow-up, the radiology oncology team relies heavily on the Multi Modality Tumor Tracking application. "IntelliSpace Portal and its rich set of tools for CT and MR are very useful in cardiac imaging," adds Dr. Rodriguez, "and I always use them for my multi-modality cases." Neuroradiologists handle nearly 60 MR cases a week.

* Please contact your local Philips representative
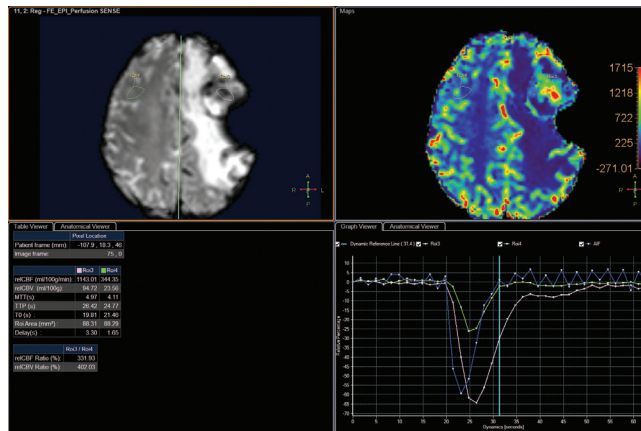 for details on multi-vendor coverage.

PHILIPS

Increasing diagnostic confidence

Across the hospital, radiologists leverage the anatomical, functional, spatial, and temporal dimensions provided by CT, MR, NM, and US on a single platform. "When I review PET-CT thoracic and cardiac images, I now feel much more confident in spotting small lesions," says Dr. Rodriguez. Dr. Botella appreciates IntelliSpace Portal's MR capabilities. "I usually use CT in abdominal imaging," he explains, "but MR can show small lesions that CT misses."

Visualization and image enhancement tools allow radiologists to focus on details. "MR T2* (Neuro) Perfusion, especially the AIF feature, is excellent," notes Dr. de Villoria. "It delivers superb quantification and lets neurologists generate so many kinds of output."
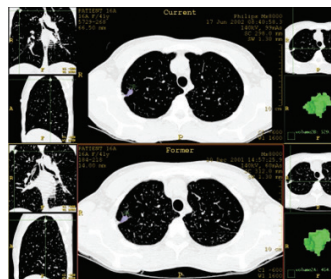
Working efficiently in teams

Today, radiologists spend more time analyzing and less time processing images. "My liver segmentations, which I did manually, took up to an hour," recalls Dr. Botella, "now I'm done in 10 minutes." Dr. de Villoria sums up IntelliSpace Portal as a solution that, as he puts it, makes his life easier. "We have all the applications we need right on one computer. It's so easy to use with no compromise in performance," he says.

The hospital also enjoys a more collaborative environment between radiologists and surgeons. "IntelliSpace Portal really helps us communicate," explains Dr. Botella. "I can obtain 3D models using CT Liver Analysis and share that information with surgeons." Dr. Rodriguez works in a similar way, adding, "Our analyses are performed jointly with the cardiologist – we actually sign off the report together."

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MR T2* (Neuro) Perfusion with AIF

Matching the speed of innovation

With its annual development heartbeat, IntelliSpace Portal keeps radiologists in multiple clinical specialties connected to the clinical IT advances of their solution. "Every release offers more benefits through new tools and new applications," remarks Dr. Rodriguez. Dr. de Villoria agrees: "The enhancements made to MR SpectroView and MR T2* (Neuro) Perfusion have a direct impact on our diagnostic confidence." Dr. Rodriguez also understands the value of switching to thin-client IT design. "IntelliSpace Portal has evolved from a workstation solution to an enterprise solution. From here on out, we'll be able to work in an entirely new way, and it's exciting to consider those possibilities."

CT Lung Nodule Assessment

Benefits at a glance:
- Deep analysis supported by quantified information linked from multiple modalities
- More time for communication and analysis made possible by automated processing and collaborative tools
- Extra degree of mobility added by thin-client, "workstation-less" design

Please visit www.philips.com/intellispaceportal