



# Bringing insight to the body's most complex organ

## IntelliSpace Portal and its brain-related applications

### The customer

Dr. Ilan Shelef, M.D.  
Neuroradiologist and director of the Imaging Institute at Soroka Medical Center, Israel

- Major general, research, and teaching hospital
- All major departments and units represented
- 800 physicians
- 2,000 nurses
- 1,400 employees
- 500,000 ambulatory visits
- 200,000 emergency room visits
- 32,000 surgeries
- 14,000 births

### The challenge

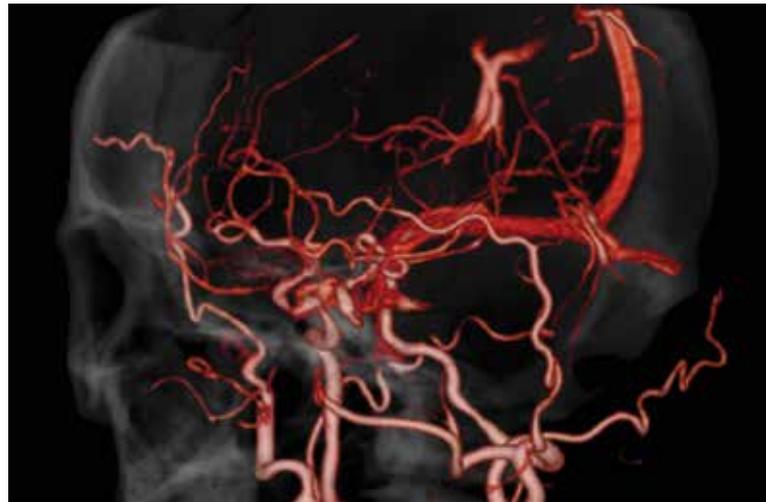
Unlock access to new technologies in neuroimaging while accelerating the speed of image to analysis

### The solution

Philips IntelliSpace Portal and its brain-related applications

- CT Advanced Brain Perfusion
- CT Advanced Vessel Analysis
- MR Neuro Perfusion
- MR Diffusion
- MR Permeability
- MR T1 Perfusion
- MR SpectroView

It's an exciting time to be in neuroimaging. Sophisticated technologies are emerging that allow neuroradiologists like Dr. Ilan Shelef to "see" the brain in detail. When evaluating a new system to leverage these developments for patient care, Shelef also knew the final choice couldn't burden his institute's busy workloads. The solution: Philips IntelliSpace Portal, a system for advanced visualization and analysis. Shelef praises the benefits as "access" – access to fast results and high-quality images, in more places, to help his team gain additional insight into patients' heads.



CT Advanced Vessel Analysis

"Although IntelliSpace Portal was introduced here only a short while ago," explains Shelef, "it has already demonstrated itself to be intuitive, user-friendly, and fast." Designed for outstanding interoperability, the solution "is easy to launch straight from our institute's PACS system. Every day, more than half of my 17-member team uses IntelliSpace Portal along with several CT

and MR brain-related applications running on it." Since IntelliSpace Portal also replaced individual, modality-based workstations with a server-based platform, providing input for patient treatment is even more convenient. Users can log in where they choose to – the office workstation, a PC of standard configuration, and even a mobile device.\*

\* Not intended for diagnosis





### Creating agile workflows

“The accessibility of IntelliSpace Portal is a huge advantage,” he remarks. “Multi-user design and remote access enable us to match the pace of our annual exams – 1,000 MR and 38,000 CT.” The team is also exploring how key features, such as bookmark sharing and pre-fetching of prior studies, can support efficient ways of working.

In terms of specific workflows, Shelef highlights CT Advanced Vessel Analysis (AVA) and MR T1 Perfusion. “CT AVA is a team favorite,” he admits, with its automatic centerline detection of multiple vessels and single-click bone removal. CT angiography is part of the institute’s acute stroke protocol, and CT AVA allows the team to generate urgent reports (including a quantified vessel analysis) in one step. “MR T1 Perfusion is also a valuable addition for us,” he continues. “It’s fast and performs well – for example, when we need to register source images or smooth out input data.”

### Benefits for Soroka Medical Center at a glance

- High-quality images increase confidence in interpretation
- Automation tools and remote access enable efficient use of time
- New applications promote collaboration\* and help professionals stay current in their field

### Growing more confident in diagnoses

The institute has taken its visualization and analysis to the next level. “The results from years past,” reveals Shelef, “can’t really be compared with those of today.” Case in point: the MR Permeability application. Instead of simply calculating maps, it visualizes the combination of quantitative results with the source as well as relevant anatomical data. In neuro-oncology, the application “helps us differentiate between progression, pseudo-progression, and radiation necrosis.”

“The summary maps on CT Advanced Brain Perfusion also assist us with treatment planning,” adds Shelef. Calculated by the application, these maps identify areas of salvageable tissue in acute stroke patients. “Every distinction we can make between still-viable and non-viable infarcted tissue can make a difference in the patient’s care.”

\* Not intended for diagnosis

### Capitalizing on change

Shelef believes a choice for IntelliSpace Portal is a choice for a platform that puts the latest developments in technology at users’ fingertips on a regular basis. “It’s early days, but IntelliSpace Portal and its brain-related applications have completely changed – for the better – how we approach advanced visualization and analysis. I highly recommend it if you’re in the market for a new system,” reflects Shelef.

He’s also very excited about the upcoming opportunity to work with Philips IntelliSpace Portal Multi Modality Tumor Tracking (MMTT), an application which provides efficient tools to monitor tumor progression or remission for oncology cases. With it, Shelef’s team can coordinate even more closely with radiology and oncology staff to evaluate each patient’s response to therapy using sequential PET/ CT, SPECT/ CT, MR, and CT.

Please visit [www.philips.com/intellispaceportal](http://www.philips.com/intellispaceportal)



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