

State-of-the-Art Imaging Technology Raises Healthcare in South America to a New Level

High-end 3D imaging with reduced dose and other innovative medical imaging is important and a matter of fact in highly developed countries like the U.S, Canada, Japan, or the European Union. For South America this is still not the standard equipment for hospitals. With the biplane AXIOM Artis *dBA* the Neurosurgery Institute of Santiago, Chile, became the first public hospital in South America with new high-end medical imaging equipment.

In December 2007, the President of Chile, Michelle Bachelet, inaugurated the first AXIOM Artis *dBA* with *syngo* DynaCT in South America. The system was installed at Neurosurgery Institute in Santiago. The renowned institute is the most prestigious in Chile and the first in South America with an installed biplane FD Artis angiography system from Siemens.

A great imaging tool

President Bachelet and the Minister of Health, Soledad Barría, had the opportunity to see the system in action. Dr. Jaime Lavados, Director of the institute and Dr. Eduardo Bravo, Head of the Neuroradiology Department, presented the various benefits and features of the new AXIOM Artis biplane system. The system is equipped with the *syngo* DynaCT application to create cross-sectional images during an angiography procedure, which had helped us reach a fast and reliable treatment decision in 121 procedures performed between June 2007 and January 2008. The insti-



President of Chile, Michelle Bachelet, and the team of the Neuroradiology Department at the Neurosurgery Institute in Santiago, Chile

Source: Presidency of the Republic of Chile

tute confirms that the application is a great imaging tool and has fast acquisition and processing times.

"For us AXIOM Artis *dBA* is special in two ways", says Dr. Bravo. "The two C-arms allow us to acquire two views

“Working with the biplane system reduces the expenses for contrast agent and speeds up procedures because it is not necessary to change C-arm positioning during the procedures.”

Dr. Eduardo Bravo, MD, Head of Neuroradiology Department, Neurosurgery Institute in Santiago, Chile

during a neuroradiological intervention, so we can see the same pathology in two different planes, which provides us with a 3D view of millimetrical structures for greater safety in our work and minor risk for the patient.”

The other great benefit is that it enables the physician to see complications in the treatment of patients in the same room without moving the patient to another imaging modality. “Without moving the patient, it is possible to see any kind of complication during treatment in a very user-friendly way”, affirmed Bravo.

Improved patient care

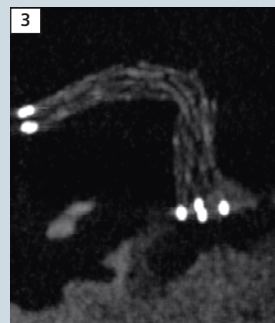
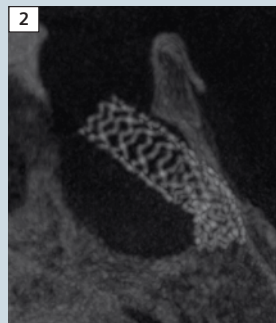
Among advanced imaging capabilities, AXIOM Artis *dBA* brings other advantages to the facility. Dr. Bravo is very satisfied with the new system, mainly because it is the first in a public hospital in South America and because of the financial benefits. “Working with the biplane system reduces the expenses for contrast agent and speeds up the procedure because it is not necessary to change C-arm positioning during the procedures,” he explains.

At the end of February 2008, the same

institute hosted a workshop with 37 Latin American neuro-interventionalists focusing on *syngo* DynaCT and how its soft tissue imaging capabilities can display details that no other angiography system on the market can offer. These details range from hemorrhages in the brain to stent visualization. Many live cases were discussed with the participating radiologists who also confirmed the high clinical value of *syngo* DynaCT.

Contact

antonio.carlos@siemens.com



1 Vertebral aneurysm treated with stent and coils. The 6 months control angiography and *syngo* DynaCT showed stent herniation into the embolized aneurysm.

2 Cavernous segment aneurysm treated with a cardiological stent visualized with *syngo* DynaCT MIP images.

3 Ruptured basilar tip aneurysm treated with stent and coils. The stent was positioned from the basilar artery to the right P1 segment.