

FDR NANO USER'S VOICE

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Digital radiology

Clinical experience with FDR Nano

Hospital Universitario de Valme in Seville, Spain



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Introduction



The Hospital Universitario de Valme is part of the South Health Management Area of Seville, covering a population of more than 400,000 inhabitants. It covers an extensive geographical area that includes twenty towns: Alcalá de Guadaíra, Dos Hermanas, Los Palacios, Morón de la Frontera, Lebrija, Montellano, Pruna, Utrera, Arahal, Paradas, Mairena del Alcor, El Viso del Alcor, Las Cabezas de San Juan...

Alongside the Hospital Universitario de Valme, this health area has another center for specialized care: the Hospital El Tomillar, located between Dos Hermanas and Alcalá de Guadaíra, and with more than a hundred beds. The hospitalisation area of the hospital is dedicated to fragile and vulnerable patients, and to a small part to citizens in need of major outpatient surgery.

The Radiodiagnosis Service manages the entire radiology system in the southern health area of Seville. It has X-ray units in different health centers:

Morón de la Frontera, Arahal, Alcalá de Guadaíra, Dos Hermanas, Montequinto, Los Palacios, Las Cabezas, Lebrija and Utrera; as well as three peripheral speciality centers in Dos Hermanas, Alcalá de Guadaíra and Morón de la Frontera. In addition to the Hospital El Tomillar, a new high resolution center has just been opened in Mairena del Alcor: El CARE de Mairena del Alcor. It is equipped with conventional digital radiology equipment, TC scanner with dose reduction systems, mammography system, an ultrasound scanner and a portable digital X-ray machine.

The working team

Dr. Rafael Aznar Méndez (Head of the Radiodiagnostic Service of the South Health Management Area of Seville), Mr. Manuel Francisco Rodríguez Castillo (Head of Radiological Protection and Radiophysics) and the Imaging Technicians María de los Ángeles Lora Ruiz and Carmen González-Serna Amuedo talk about their experience with the FDR Nano equipment.

Why was the mobile FDR Nano purchased for El Tomillar Hospital?

One of the issues that made us decide for this equipment was its handling and versatility, especially the comfort of its chassis. We chose this equipment because it was the simplest and the one that gave us the highest resolution in terms of image quality and features. It has certain physical characteristics, such as its weight and dimensions, which best adapted to the needs of the center.

Access with the Nano equipment is much more

comfortable, especially in the hospital rooms.

What kind of patients do you have at El Tomillar Hospital?

An important part of the beds are dedicated to very critical patients with a long stay and a high degree of vulnerability. In addition, a specific section has now been set up for Covid care.

What kind of tests do you carry out with this equipment?

The portable system is mainly used for direct chest scans. Although sometimes here, in the radiology department, we also use it to scan the abdomen of patients coming from the Care Continuity Unit in order to avoid moving them, making the process of transferring them to the examination table less uncomfortable. The image quality we obtain of the abdomen is very good.

What difference do you see in terms of image quality and patient dose?

We optimize the previous situation, better image quality and lower patient dose. Radiologists noticed a big change. Even the internal medicine doctors are also very happy. It has been a transcendental change, going from analogue equipment with CR technology to digital DR equipment, both in terms of image quality and patient dose reduction.

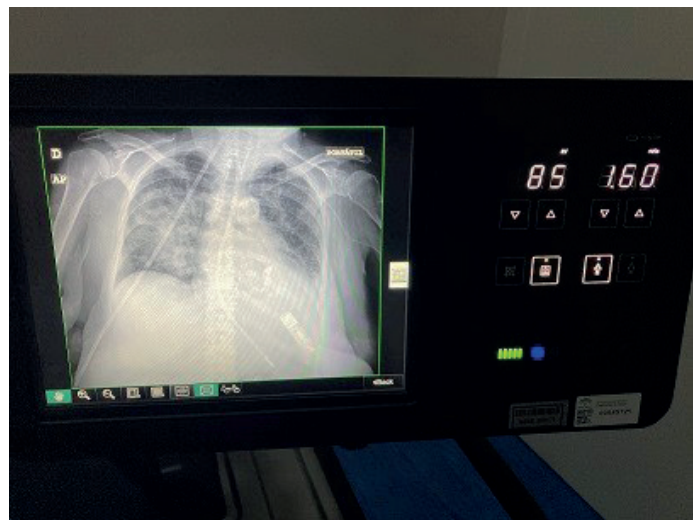
What has the FDR Nano brought to the hospital?

In particular, the detector has a much better sensitivity and resolution than the previous system. The equipment itself, despite its apparent low power, perfectly fulfils the clinical tasks of the hospital and its high maneuverability makes it very comfortable to use. Both the staff who operate it, orderlies and technicians, as well as the petitioners, radiologists and other specialists, are very satisfied with it

Regarding the dose given to patients, we have noticed a substantial decrease and with DICOM SR DOSE we can monitor each patient's dose



Mr. Manuel Rodríguez, Head of Radiological Protection Service and Head of Radiophysics..



Fujifilm's FDR nano is ultra-lightweight and ultra-mobile. With a weight of only 90 kg and equipped with multi-directional wheels, this extremely mobile DR X-ray unit, fully capable of moving around anywhere by anyone, enables fast image acquisition in challenging environments such as the surgery room, emergency room, ICU and neonatal unit. At the same time, it offers excellent image quality thanks to the patented Virtual Grid and Dynamic Visualization II imaging technologies.