Medici DR Systems

Reference

Medici DR System in the Radiology Centre of the Fulda Clinic, Germany

OR Technology

Clinic for Diagnostic and
Interventional Radiology
Pacelliallee 4, 36043 Fulda, Germany

Tel. +49 6 61 84 – 62 01
info@klinikum-fulda.de

Bernhard Hering
Medical physics expert (MPE) in the Radiology Centre

Medici DR Systems

Reference

About the clinic:

Fulda Clinic is the modern and efficient maximum-care hospital in eastern Hesse. With more than 1,000 inpatient beds and a wide range of specialised consultations and outpatient clinics, it ensures high-quality medical care for the more than 500,000 citizens of the region. The Radiology Centre of the Fulda Clinic has, among other things, the Clinic for Diagnostic and Interventional Radiology, headed by Prof. Dr. Christoph Manke, and the Clinic for Diagnostic and Interventional Neuroradiology, headed by Priv.-Doz. Dr. Kai Kallenberg. A total of 17 doctors and 45 MTRA are employed there. The equipment for imaging procedures includes computer tomographs, DSA devices, digital mammography and mamma biopsy, as well as four fully automatic digital X-ray machines. An MVZ (Medical Care Centre East Hesse) with a practice for orthopaedics and trauma surgery is also located in the building complex of the hospital.

Requirements and motivations:

We started with digital radiology in 1996. Until 2003, we still used analogue x-rays in some cases, and then only digital direct radiography (solid-state detectors) or imaging plates," says Bernhard Hering, medical physicist expert (MPE) at the Radiology Centre of Fulda Clinic. The Fulda Clinic is continuously investing in digitalisation.

"We replaced our imaging plate devices because it was no longer feasible to transfer the dose values of the images into our dose management system over the years. We came across the company OR Technology through an internet search," says Hering.

Further information is available under
www.or-technology.com

"The decisive factors for purchasing the Medici DR retrofit set were the quality, the formats (size and weight) of the detectors, the functionality and usability of the software and - last but not least - the price."

The solution:

Since November 2020, the digital Medici DR system has been in use at both the hospital and the MVZ Osthessen. The existing X-ray system was digitised with the retrofit set. The acceptance test and commissioning of the Medici DR system took place on 27.11.2020. The advantages quickly became apparent: accurate examination results and high-quality X-ray images support precise and holistic diagnostics.

From the daily X-ray routine and the resulting benefits for the hospital and the MVZ:

"The great advantage of the retrofit sets is the possibility of bringing analogue X-ray equipment into the digital X-ray age far more effectively than with imaging plates," explains Hering. "There are many notable advantages. The images are immediately available and can be shared throughout the hospital and the MVZ. The dose values of the images instantly can be analysed and archived in the dose management system. Another plus point is the much wider dose range of the image area that can be displayed, i.e. there are almost no more overexposed or underexposed images.

The possibility of image post-processing through digital filtering and multi-frequency analysis, adapted to the diagnosis and the object represented, facilitates daily work. Digital image archiving and image distribution are now easy to implement outside our facility."

Further information is available under
www.or-technology.com

The X-ray system is equipped with the *dicomPACS®DX-R* acquisition software, which is easy to operate via a touch screen and provides X-ray images of the highest quality. The workflow for image creation is design to be easy. The image quality is consistently good and stable - also proven by consistency tests that have been carried out without any problems so far. The integrated multimedia X-ray assistant is a very good aid and makes things easier for less experienced staff. "The connection to the RIS we use was problem-free and works well. The workflow depends on a good connection to the RIS system," the medical physicist expert concludes. "The so-called "RIS codes" for order transmission must be carefully adapted. Furthermore, good training of the users is very important."

Installation and maintenance:

"The quality of the installation and also the provision of the necessary information were really good. The overall package with cable routing, computer set-up and the IT information for integration into the hospital's own IT environment worked out great. We are very satisfied with the support and remote maintenance. The communication in case of questions or small problems was always good. OR Technology employees were and are always competent and friendly," concludes Hering.

Further information is available under
www.or-technology.com

Version OR004007-001-02-2023

Digitise your X-ray system:
DR retrofits for your existing stationary X-ray system

Medici DR Systems

Medici DR systems are available for nearly every X-ray unit manufactured. After choosing the appropriate size of wireless or tethered flat panel detector, the system can be configured according to your needs.

The *dicomPACS® DX-R* image acquisition software is easy to operate, has a touchscreen interface, improves workflow and produces outstanding X-ray images. Naturally, Medici DR systems can be integrated with your practice management software and programmed to transfer X-ray images to an image management system (PACS).

Auto Exposure Detection (AED) means you no longer have to access the X-ray unit or make manual adjustments to the system. Just as easy to install as a CR system.

OR Technology

www.or-technology.com

OR Technology (Oehm und Rehbein GmbH), 18057 Rostock, Germany, Neptunallee 7c
Tel. +49 381 36 600 500, Fax +49 381 36 600 555
www.or-technology.com, info@or-technology.com

Info-Hotline: +49 381 36 600 600