

“The MULTIX Impact system allows us to increase patient throughput by 20 to 25 percent while also improving image quality [...]. Quality usually requires more time, but a major advantage in this case is that quality actually requires less time.”

Dr. med. Thomas Ullein,
Diagnostic Radiology Specialist,
Radiologiepraxis im Dürerhof, Bayreuth, Germany

Improving the Image

Radiologists in private practice must cater to the needs of three stakeholder groups: patients, referring physicians, and their own staff. The right technology will succeed on all three fronts.

Text: Andrea Lutz



The five physicians working at Radiologiepraxis im Dürerhof Bayreuth, Germany, regard themselves as medical service providers. For their team, the ability to quickly produce high-quality clinical images is crucial, as these images form the basis for the diagnoses made by their referring colleagues. Another priority is providing their patients with professional, considerate, and personalized care – in today's healthcare market, the patient experience during a visit to the doctor is vitally important.

Accordingly, rigorous demands are placed on the imaging systems used. The radiologists in

Bayreuth invested in a MULTIX Impact ergonomic flat-panel detector X-ray system that makes examinations more comfortable, particularly for patients with limited mobility. At the same time, the system must offer outstanding image quality and ease of operation for its users. Can it deliver?

“We use the system for all standard X-ray examinations, from chest X-rays to joint imaging,” explains radiologist Josef Liebisch. As this involves a range of different requirements, the digital X-ray system must deliver precisely what its name promises: impact! After the first quarter, the verdict is positive. The team works quickly



and reliably, while spending more time by the patient's side. "As a result of the seamless and adaptable integration of MULTIX Impact into the IT workflow, we've been able to reduce our error rate and increase our efficiency," reports practice manager Andreas Kiefer.

Optimized processes every step of the way

"Quality usually requires more time, but a major advantage in this case is that quality actually requires less time.," says radiologist Thomas Ulllein, MD. This is due to several factors: Both the transmission of the examination requirements

as well as the setting for each X-ray image are automated. Patient data and preconfigured examination parameters are displayed directly on the X-ray tube touchscreen, where they can also be adapted. A camera in the control room monitors correct patient positioning. Co-ordinated system movements enable faster and more precise positioning, which in turn gives the radiology technologist more time with the patient to answer questions or offer encouragement if needed. With no cassettes to be developed, the images are available for assessment in a matter of seconds. The overall workflow has thus improved significantly, making it more comfortable for everyone involved.

"We're very satisfied with the image quality. We previously had an analog X-ray machine and are thrilled with the new digital unit. It's very helpful for image generation as well as transfer to the referring physician."

Josef Liebisch, Radiology Specialist,
Radiologiepraxis im Dürerhof, Bayreuth, Germany



Catering to the needs of referring physicians with customized imaging

"The images have a clarity that I have never seen before [in conventional radiography] and only know from fully digital mammography units," remarks Ullein, adding that "Pulmonologists and rheumatologists have special requirements for the image impression. We can now meet the demands of referring physicians and individually adjust the scans. The preconfigured image flavors allow us to provide the ideal contrast for the organ to be examined based on the patient's constitution. Scans can therefore be personalized. All of the automated features result in a further optimization of the scan for specific medical issues."

Patients award stars online

This customization is not just important to medical professionals; patients, too, have increasingly high expectations. No one wants to be just a number when they visit the doctor. "Our practice and our physicians are rated multiple times per week on Internet portals," says Ullein. If a patient is injured or in pain, the attention they receive from care providers is particularly important both for the patients themselves and for their relatives. "MULTIX Impact has made it possible for us to reduce the workload for staff and create a relaxed work environment. As a result, our patients are also more satisfied."



Monika Hackel is an experienced practitioner, who has been employed as a radiology technologist for 43 years. She joins the praise for MULTIX Impact: "I can honestly say that this is the best unit I've ever worked with."

The statements by Siemens Healthineers customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.