



Advancing cancer care in Jordan with **Philips SmartPath to Elition X**

Solving regional healthcare challenges through partnership and innovation

In the heart of Jordan, the King Hussein Cancer Center (KHCC) stands as a beacon of hope for countless individuals battling cancer across the Middle East. Renowned as a leading oncology hub, KHCC welcomes patients from Jordan and neighboring countries, offering advanced care in the face of rising cancer cases in the region.

This increase puts immense pressure on the center's resources and even with five MRI scanners, patients sometimes face waiting times of up to four weeks. KHCC is dedicated to meeting these challenges head-on, fueled by unwavering dedication to quality care, innovative partnerships, and the pursuit of better technology to deliver hope and healing.

Challenges facing KHCC and the region

KHCC has become one of the premier cancer centers in the region, receiving the most challenging and complex cancer cases including those in advanced stages. When other facilities are unable to provide solutions, patients turn to KHCC as their best—and often only—option for expert care. Regional instability and a lack of specialized centers mean KHCC's facilities are used by thousands each year, resulting in long waiting lists. As a non-profit, KHCC needs to maximize investments and extend the life of existing machines wherever possible. Swift, precise MRI scans are vital for diagnosis and treatment, but older scanners can slow down workflows, extend waiting times and make early detection more difficult.



Commitment to quality for every patient

KHCC is dedicated to delivering world-class cancer care to every patient regardless of background or financial status. This mission carries the accompanying pressure to make MRI technology faster, more efficient, and more comfortable—

without incurring the high costs of entirely new machines. The benefits of improved technology also translate directly into an improved patient experience.



“Since the acquisition time is very short, patients are more comfortable and more cooperative”

Mohammed al Gaqheer, Senior MRI technician, KHCC, Amman, Jordan.



Philips SmartPath to Elition X: A strategic solution

Philips SmartPath to Elition X provided KHCC with a transformative upgrade pathway, allowing the center to optimize existing Ingenia 3.0T MRI systems into advanced Elition X platforms without the financial burden of entirely new equipment. Philips SmartPath delivered on three key priorities for KHCC—cost efficiency, productivity, and sustainability—facilitating that high-end systems deliver even greater value over time. By equipping KHCC's MRI scanners with advanced functionalities such as Vega HP gradients, SmartWorkflow solutions, and SmartSpeed technology, the center benefits from enhanced precision in clinical imaging, automated workflows, and faster exam times.

Touchless patient sensing, in-room guidance for set-up, and exam initiation on the patient's side all streamline the MRI experience, while innovations like the ComfortPlus mattress and a quieter scanning environment make procedures less intimidating for patients. VitalEye improves monitoring for oncology patients, while ScanWise supports those with conditional implants, enhancing safety and comfort.

Ultimately, these upgrades empower KHCC to extend the life of its resources, improve diagnostic confidence with accelerated scan speeds. Most importantly, by focusing on patient-friendly care, KHCC aims that every individual—regardless of background—receives world-class treatment with greater comfort, efficiency, and hope for healing.

Enhancing patient experience and overcoming MRI anxiety

KHCC cares for many cancer patients requiring regular MRI scans, and they noticed substantial changes after the SmartPath to Elition X upgrade. In one case, a patient with significant claustrophobia who previously required anesthesia for imaging agreed to undergo a scan without it after learning about the faster, more comfortable process. The exam duration was reduced from 30 minutes to just 7 minutes, greatly improving comfort and efficiency.

“We have reduced the number of patients requiring anesthesia, which is a great benefit for them.”

Mohanned al Gaghbeer, Senior MRI technician, KHCC, Amman, Jordan.

AI-driven MRI at KHCC

The integration of artificial intelligence, namely the SmartSpeed acceleration software, has transformed MRI at KHCC. Previously unfamiliar with AI, staff now benefit from automated workflows, sharper images with improved

signal-to-noise ratio, and scans that are up to 3 times faster than before¹. These advancements support more accurate and timely diagnoses while significantly enhancing the patient experience.

“We didn’t know much about artificial intelligence before. And now, we have the capability to work with machines that have this new technology. Previously, performing a brain MRI would take around 20 to 30 minutes. Now we can do a brain MRI in, let’s say, 6 to 7 minutes,”

Mohanned al Gaghbeer, Senior MRI technician, KHCC, Amman, Jordan.



Enhancing patient safety with ScanWise and workflow with VitalEye Technology

The implementation of VitalEye technology revolutionized MRI workflows at KHCC. Replacing traditional patient belts, VitalEye² enables rapid setup—routine exams can begin in under one minute, providing clarity and confidence. Coupled with ScanWise³, which

simplifies MRI setup for patients with implanted devices like pacemakers or ICDs, this innovation empowers technologists to conduct scans with confidence, achieving superior image quality while minimizing disruptions and easing patient anxiety.

“And it’s very precise, actually. We can safely perform MRI scans for implant patients, like pacemaker or ICDs, obtaining the best image quality, with minimal interruption and less anxiety to the patient.”

Mohammed al Gaghbeer, Senior MRI technician, KHCC, Amman, Jordan.

Leading healthcare forward in Jordan

KHCC's commitment to patient care serves as an inspiration for hospitals throughout Jordan and the Middle East. By combining resourcefulness with the right technology and strategic partnerships, the center has demonstrated that quality care is possible even in challenging circumstances.

The story of KHCC and Philips SmartPath to Elition X is more than just a technical upgrade—it is a testament to commitment, innovation, and partnership, paving the way for hope and healing for thousands in Jordan and beyond.

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1 SmartSpeed AI can speed up scan time nearly 3 times with no loss in image quality, Compared to SENSE imaging

2 Allows for integrated automated breathing detection without accessories or manual adjustments

3 ScanWise Implant is a wizard that guides the user through simple steps to enter MR parameter values of the implant conditions

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