

Dubai World Trade Centre: Sheikh Saeed Hall 1, Booth #S1.D10

At Arab Health 2019, Siemens Healthineers presents its suite of AI-powered tools and systems enabling high-value care

- **AI-based digital companions increase productivity and quality in radiology and support personalized and standardized patient management along clinical pathways**
- **Remote scanning assistance with Syngo Virtual Cockpit¹ makes workforce management in radiology more flexible**
- **New MRI systems portfolio expands the reach of BioMatrix technology and revolutionizes patient experience with its all-new in-bore infotainment system Innovision²**

At this year's Arab Health (January 28 – 31, 2019) in Dubai, U.A.E., Siemens Healthineers is showcasing its products and solutions following the motto "We enable you to deliver high-value care". All of the company's innovations are designed to enable healthcare providers worldwide to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, improving patient experience and digitalizing healthcare. With its long-standing presence in the Middle East and intelligent, forward-looking, and AI-powered solutions that capitalize on the ever-increasing volume of healthcare data and translate it into concrete clinical, operational, and financial wins, Siemens Healthineers is extraordinarily qualified as the trusted digitalization partner for the entire region. The company's suite of AI-powered tools and digital offerings that are transforming care delivery is the centerpiece of Siemens Healthineers fair presence at Arab Health 2019 – including two new digital companions, the AI-Rad Companion Chest CT³ for radiology and the AI-Pathway Companion⁴ for support along clinical pathways.

"The ability to collect and process large amounts of data has a huge impact on the whole healthcare system. In this digital transformation, we believe that industry knowledge and experience are crucial when turning data into actionable insights. Thanks to our close

relations with healthcare professionals, we understand their challenges and needs. We systematically combine these insights with our in-depth knowledge in medical technology and data analytics to engineer solutions that help healthcare providers efficiently deliver the right treatment at the right time for every patient”, says Bernd Ohnesorge, President Europe, Middle East and Africa at Siemens Healthineers.

AI-Rad Companion Chest CT³ is a software assistant that brings artificial intelligence (AI) to computed tomography (CT). Siemens Healthineers first intelligent software assistant for radiology – and the first application of the company’s new AI-Rad Companion platform – identifies anatomies and potentially disease-relevant changes. Teams of Siemens Healthineers scientists trained the underlying algorithms based on extensive clinical datasets. Using CT images of the thorax (chest), the software can differentiate between the various structures of the chest, highlight them individually, and mark and measure potential abnormalities. This applies equally to organs such as the heart and lungs, the aorta and the vertebral bodies. And the companion goes even one step further: The software automatically turns the findings into a quantitative report and thus helps increase productivity and quality in radiology.

To expand precision medicine with artificial intelligence, Siemens Healthineers is presenting **AI-Pathway Companion⁴** at Arab Health. It is a clinical decision support system based on artificial intelligence that supports physicians in making diagnostic and therapeutic decisions along the clinical pathway. While numerous applications in the healthcare market make the workflows of individual clinical or administrative departments more efficient, the AI-Pathway Companion is designed to help optimize the processes along clinical pathways and thus support personalized as well as standardized patient management. The AI-Pathway Companion can provide physicians in multi-disciplinary disease boards with the clinical status of each patient, based on data integration and artificial intelligence, and can make recommendations for next steps to accelerate diagnostic and treatment decisions.

“Together with advancing engineering capabilities, Digitalization and Artificial Intelligence are key focus areas today. Advancements in these new frontiers allow us to improve healthcare by more accurately diagnosing and providing better-targeted treatments”, commented Ole Per Maloy, Managing Director, Siemens Healthineers, Middle East and Southern and Eastern Africa. He continued, “We have been on this journey of making

healthcare more precise, more personalized and more patient-centric for more than 40 years in the Middle East and are proud to have been a part and a partner in the development of the region's healthcare infrastructure."

Flexible workforce management and remote scanning assistance

The **Syngo Virtual Cockpit**¹ can be used by medical staff to connect remotely to scanner workplaces to assist personnel at a different location, especially where more sophisticated examinations are required. Syngo Virtual Cockpit can be utilized with CT and PET/CT scanners as well as with MRI and MR-PET systems from Siemens Healthineers. With the ability to deploy experienced technologists more flexibly across multiple locations healthcare providers can transform care delivery by improving access to healthcare and can easier achieve a higher level of standardization that leads to more accurate diagnoses by reducing unwanted variations in reports.

Syngo.Breast Care⁵, the brand new version of the mammography reading and reporting software from Siemens Healthineers, provides physicians with an innovative type of AI-based interactive decision support⁶ for faster, more accurate interpretation of mammography images. While lesion and case scores⁶ provide accurate information on probability of breast cancer to support precision medicine, SmartSort technology⁶ reduces workload with automated case prioritization. This enables radiologists to deliver results within a shorter period of time, transforms their reading workflows and ultimately improves care delivery.

In parallel to its suite of intelligent software solutions Siemens Healthineers is presenting its latest MRI systems at Arab Health, based entirely on the innovative **BioMatrix technology**. By extending the availability and functionality of this technology, Siemens Healthineers is transforming care delivery in radiology and improving productivity while ensuring consistent quality. Scan results are therefore highly reproducible, enhanced through the integration of artificial intelligence. Magnetom Altea⁷ (1.5 Tesla) and Magnetom Lumina^{7,8} (3 Tesla) are the latest additions to the new portfolio of BioMatrix scanners and feature a 70-cm bore. In the 60-cm bore product segment, the Magnetom Amira^{7,9} (1.5 Tesla) is now also available with BioMatrix technology.

With its new **Turbo Suite**, Siemens Healthineers introduces innovative acceleration techniques. Comprised of customized applications, Turbo Suite can reduce scan times for complete examinations by up to 50 percent with no compromise in image quality. This can help increase patient throughput and scanner productivity and lower the cost per scan, while patients benefit from shorter examination times.

All-new in-bore infotainment system revolutionizes MRI patient experience

While strengthening its scanner portfolio, Siemens Healthineers substantially improves patient satisfaction in MRI exams with the revolutionary in-bore infotainment system **Innovision²** that allows patients to watch their favorite video during a MRI exam. Available for all 70-cm Open-Bore systems, the innovation reduces the anxiety that can result in motion artifacts or even mean that the exam has to be stopped. Innovision features a wide screen monitor to create an immersive visual experience. It makes the inside of the scanner seem virtually larger and also displays the remaining scan time. Both can be beneficial to patients suffering from claustrophobia and anxiety. A specially designed pillow transmits clear audio signals and attenuates scanner noise substantially.

In the field of X-ray imaging Siemens Healthineers is showcasing for the first time at Arab Health **Multix Impact¹⁰**, its innovative floor-mounted radiography system that offers excellent value for money and makes access to high-quality imaging technology much easier. The intuitive to use operating system, the ergonomic design and modern wireless detectors used by the Multix Impact optimize clinical processes in radiography by improving both productivity and patient experience. Positioning camera and preconfigured organ programs allow even less experienced technicians to take accurate low-dose images.

With **Mobilett Elara Max¹⁰** Siemens Healthineers is setting new standards in mobile X-ray imaging. The easy-to-clean system design and surfaces with an antimicrobial coating reduce the risk of hospital acquired infections. A comprehensive IT security concept protects sensitive patient data and the secure integration of Mobilett Elara Max into the hospital's IT environment provides access to all relevant data at any time. Thanks to the smooth maneuverability and flexible positioning of the X-ray arm, the system facilitates easy access to the patient and optimizes workflows in radiology, thus increasing efficiency. Through its consistently high image quality, it provides diagnostic confidence directly at the patient's bedside.

¹ Syngo Virtual Cockpit is not yet commercially available. Its future availability cannot be ensured. Please note that Expert-i must be available on the Siemens Healthineers Scanner to use this software solution.

² The in-bore Infotainment system Innovision™ is still under development and not yet commercially available. Its future availability cannot be guaranteed.

³ AI-Rad Companion Chest CT is pending 510(k) clearance, and is not yet commercially available in the United States or other countries.

⁴ AI-Pathway Companion is currently under development. It is not for sale in the U.S. Its future availability cannot be guaranteed.

⁵ Syngo.Breast Care VB40 is currently under development; it is not for sale in the U.S. Its future availability cannot be guaranteed.

⁶ This feature is an option powered by Transpara™, ScreenPoint Medical and available with Syngo.via VB40.

⁷ Magnetom Lumina, Magnetom Altea, and Magnetom Amira with BioMatrix are expected to be available during the first half of 2019.

⁸ Magnetom Lumina is 510(k) pending. It is not for sale in the U.S. Its future availability cannot be guaranteed.

⁹ Magnetom Amira – A BioMatrix System is 510(k) pending. It is not for sale in the U.S. Its future availability cannot be guaranteed.

¹⁰ The products/features (mentioned herein) are not commercially available in all countries. Their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

This press release and press pictures are available at

www.healthcare.siemens.com/press-room/press-releases/pr-20190128002shs.html.

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Siemens Healthineers enables healthcare providers worldwide to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, improving patient experience and digitalizing healthcare. A leader in medical technology, Siemens Healthineers is constantly innovating its portfolio of products and services in its core areas of diagnostic and therapeutic imaging and in laboratory diagnostics and molecular medicine. Siemens Healthineers is also actively developing its digital health services and enterprise services.

In fiscal 2018, which ended on September 30, 2018, Siemens Healthineers generated revenue of €13.4 billion and adjusted profit of €2.3 billion and has about 50,000 employees worldwide. Further information is available at www.siemens-healthineers.com.