

AI in Middle Eastern Healthcare

Medical AI · Practice Test · 8 Questions

1. Which UAE-based healthcare initiative utilized the 'Malaffi' AI platform to integrate real-time patient data, specifically for tracking chronic cardiovascular disease outcomes across Abu Dhabi?

- A) Department of Health - Abu Dhabi
- B) Dubai Health Authority
- C) Saudi Health Council
- D) Qatar Ministry of Public Health

2. In 2023, Saudi Arabia's King Faisal Specialist Hospital and Research Centre (KFSH&RC) implemented an AI-driven algorithm to automate the interpretation of which specific cardiac imaging modality to detect early-stage cardiomyopathy?

- A) Cardiac MRI
- B) Echocardiography
- C) Coronary CT Angiography
- D) Myocardial Perfusion Scintigraphy

3. Which AI-based diagnostic tool, deployed in Qatar by Hamad Medical Corporation, is specifically trained to analyze retinal fundus images for the early detection of diabetic retinopathy in the local population?

- A) IDx-DR
- B) DeepMind Health
- C) RetinaAI
- D) Google Health AI

4. Researchers at King Abdullah University of Science and Technology (KAUST) developed a deep learning model to predict the protein-folding structure of which pathogen, significant in Middle Eastern respiratory health research?

- A) Influenza A
- B) MERS-CoV
- C) Rhinovirus
- D) Adenovirus

5. The 'Saudi' AI framework has been utilized to analyze genomic datasets to identify susceptibility loci for which hereditary blood disorder, which is historically prevalent in the Eastern Province of Saudi Arabia?

- A) Hemophilia A
- B) Sickle Cell Anemia
- C) Thalassemia
- D) Von Willebrand Disease

6. Which Israeli-developed AI technology, widely adopted in Middle Eastern clinical trials, uses computer vision to assist pathologists in identifying malignant cells in biopsy slides for prostate cancer?

- A) Paige Prostate
- B) Ibex Medical Analytics
- C) Viz.ai
- D) Aidoc

7. In the context of the MENA region, which neural network architecture is primarily utilized by AI systems to segment complex 3D brain MRI images for the detection of glioblastoma multiforme?

- A) U-Net
- B) ResNet
- C) AlexNet
- D) YOLOv8

8. Which specific AI-integrated robotic surgical system, frequently utilized in specialized hospitals in Riyadh, provides haptic feedback to surgeons during delicate neurosurgical procedures?

- A) Da Vinci Surgical System
- B) CyberKnife
- C) Mazor X
- D) Rosa Brain