

# **Middle East & Africa Patient Simulators Market Forecast to 2028 - COVID-19 Impact and Regional Analysis By Product (Adult Patient Simulator, Infant Simulator, and Childbirth Simulator) and End User (Academic Institutes, Hospitals, and Military Organizations)**

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## **Abstracts**

The Middle East & Africa patient simulators market is expected to grow from US\$ 95.47 million in 2022 to US\$ 215.49 million by 2028. It is estimated to register a CAGR of 14.5% from 2022 to 2028.

### **Growing Technological Advancements in Patient Simulators Fueling Middle East & Africa Patient Simulators Market Growth**

There have been rapid advancements in healthcare technologies over the last few decades with the emergence of technologies such as virtual reality, augmented reality, artificial intelligence, robotics, 3D printing, and nanotechnology; and these will continue to shape the future of healthcare in the years to come. Advanced technology has made it possible that computer software can be integrated into manikins. The organs of one of these lifelike medical simulators, including their heart, blood vessels, lungs, and gastrointestinal tract, can also be made to respond to various human interventions during clinical simulation engagements. The computer software allows human patient simulators to replicate normal and abnormal bodily responses for educational and training purposes. Often these responses are initiated by several physical events, such as an asthma attack. Therapeutic interventions can also be replicated under certain circumstances, including representing a side effect of a medication. More advanced simulators allow learners to use mixed reality viewer lenses to visualize the internal

anatomy of a simulated patient. With these lenses, students can learn skills through observation and remote active participation. For instance, Gaumard's most advanced product combines mixed reality technology with a high-fidelity birthing simulator. With mixed reality goggles, a learner can visualize the baby and cardinal movements during descent while engaging in the hands-on exercise of delivering the baby. In the event of a complication, the learner can observe the mother's and baby's anatomy. Suppose the baby is not descending through the birth canal. In that case, learners can now manipulate the simulator in a specific way and receive visual feedback indicating that their legs have been moved to the proper position. With patient simulators, learners can practice these skills repeatedly to gain the muscle memory and critical thinking skills needed to react quickly during complicated procedures. Thus, the growing technological advancement in simulation is expected to introduce new trends to the Middle East & Africa patient simulator market.

### Middle East & Africa Patient Simulators Market Overview

The Middle East & Africa patient simulators market has been segmented into the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa. South Africa is expected to account for the largest market share and develop moderately in the Middle East & Africa. With the iSTAN patient sims and a LapVR interventional simulator for laparoscopic surgery training, the Sunskill Laboratory at Stellenbosch University in South Africa has poised to transform healthcare education in the Sub-Saharan region. Medical students can now train on high-fidelity medical simulators while receiving state-of-the-art practice in virtual reality and simulated patient care. The sunskill simulation laboratory at Stellenbosch University is a result of a multimillion-dollar partnership between the university and global tech firm Medtronic. The penetration of patient simulators across several end-user applications is expected to increase product developments during the forecast period. Such conducive factors are anticipated to offer a favorable environment in the South Africa market by 2028.

### Middle East & Africa Patient Simulators Market Revenue and Forecast to 2028 (US\$ Million)

### Middle East & Africa Patient Simulators Market Segmentation

The Middle East & Africa patient simulators market is segmented based on product, end user, and country.

Based on product, the Middle East & Africa patient simulators market is segmented into

adult patient simulator, infant simulator, and childbirth simulator. The adult patient simulator segment held the largest Middle East & Africa patient simulators market share in 2022.

Based on end user, the Middle East & Africa patient simulators market is segmented into academic institutes, hospitals, and military organizations. The academic institutes segment held the largest Middle East & Africa patient simulators market share in 2022.

Based on country, the Middle East & Africa patient simulators market has been categorized into the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa. South Africa dominated the Middle East & Africa patient simulators market in 2022.

CAE Inc, Gaumard Scientific Co Inc, Kyoto Kagaku Co Ltd, Laerdal Medical AS, Limbs & Things Ltd, Mentice AB, Simulab Corp, Surgical Science Sweden AB, and VirtaMed AG are among the leading companies operating in the Middle East & Africa patient simulators market.

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