

Arterial Blood Gas Kits Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Syringe Type (Luer Slip Syringe and Luer Lock Syringe), Type (Vented and Non-Vented), Usage (Pre-Set Plunger Mode and Manual Aspiration), Application [In Vitro Diagnostics (pH Blood Gas, Oxygen Content, and Others) and Electrolyte Analysis], Needle Gauge (Less Than 23G, 23G to 25G, and Greater Than 25G), Syringe Volume (1 ml, 3 ml, and Others), End User (Hospitals and Clinics, Diagnostic Laboratories, and Others), and Geography

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Abstracts

The healthcare manikins market is expected to grow from US\$ 712.46 million in 2023 to US\$ 1,298.03 million by 2031; it is anticipated to record a CAGR of 7.8% from 2023 to 2031.

Key segments that contributed to the derivation of the arterial blood gas kits market analysis are syringe type, usage, type, needle gauge, syringe volume, application, and end user.

Based on syringe type, the arterial blood gas kits market is segmented into adult Luer slip syringe and Luer lock syringe. The Luer lock syringe segment held a larger market share in 2023. A Luer lock syringe features a standardized, threaded tip called a Luer

lock. One of the primary advantages of Luer lock syringes is their ability to provide a tight, leak-free, secure, and reliable connection, thereby lowering the chances of contamination. The threaded design allows a firm twist-lock mechanism that prevents accidental detachment, ensuring the safety of both patients and healthcare professionals during medical procedures. Luer lock syringes offer versatility and compatibility with a wide range of medical devices. Standardized Luer lock fittings are widely adopted in healthcare settings, making it easy to use different components interchangeably without the need for specialized connectors. This interoperability allows healthcare professionals to select and connect the appropriate accessories based on specific patient needs, ensuring efficient and effective treatment.

By type, the market is segmented into vented and non-vented. The vented segment held a larger share of the market in 2023.

Based on usage, the market is segmented into pre-set plunger mode and manual aspiration. The pre-set plunger mode segment held a larger share of the market in 2023. Pre-set syringes are single-use sterile blood collection syringes with needles specifically intended for the collection, primary containment, and preservation of blood specimens derived from the human body for in-vitro examinations. The device includes a user-activated safety shield to reduce the risk of an accidental needle stick injury. Pre-set plunger mode allows healthcare professionals to set the required amount of volume of blood for tests. Therefore, healthcare professional can achieve consistent and accurate sample collection, reducing the risks of errors or variability in the blood volume required. Pre-setting the volume also lowers the time required for manual adjustments and increases the ease of use, which in turn contribute to patient's comfort. Pre-set plunger mode ensures enhanced accuracy, efficiency, and safety during arterial blood gas sampling procedures

By application, the market is segmented into in vitro diagnostics and electrolyte analysis. The vitro diagnostics segment is further segmented into pH blood gas, oxygen content, and others. The in vitro diagnostics segment held a larger share of the market in 2023. Arterial blood gas kits for in vitro tests are designed to measure and analyze the levels of electrolytes, pH, partial pressure of oxygen (PaO₂), partial pressure of carbon dioxide (PaCO₂), bicarbonate (HCO₃⁻), and base excess (BE) from arterial blood samples, which helps healthcare professionals assess a patient's acid–base balance, oxygenation, and overall respiratory functions. According to the National Committee for Clinical Laboratory Standards (NCCLS), arterial blood gas analysis has a greater impact on patient care than any other laboratory test. The sudden changes in some blood parameters may result in life-threatening situations; therefore, rapid results

are frequently required for the effective management of chronic diseases, including chronic lung diseases, respiratory failure, chronic obstructive pulmonary disease (COPD), asthma, pneumonia, and metabolic disorders. Arterial blood gas analysis benefits through rapid test results and ventilator management, and it also provides guidance through treatment plans. Additionally, pH analysis using arterial blood gas is a crucial in vitro test for monitoring patients' acid–base balance, gas exchange effectiveness, and voluntary respiratory control in clinical settings. The kits with pH measurement capabilities allow healthcare professionals to obtain real-time information about a patient's respiratory and metabolic status. pH measures the hydrogen ion concentration in blood, indicating whether it is acidic, neutral, or alkaline. It is vital for assessing acid–base imbalances, caused by acidosis or alkalosis, which can result from respiratory or metabolic disorders. By using an arterial blood gas kit for pH blood gas analysis, healthcare providers can quickly determine if a patient's blood is within the normal pH range (7.35–7.45). Deviations from this range can provide critical diagnostic insights. For instance, respiratory acidosis, caused by inadequate elimination of carbon dioxide, can be detected by a low pH level. By measuring pH levels, healthcare professionals can diagnose and manage respiratory and metabolic disorders promptly. This information guides appropriate interventions, ensuring optimal patient care in critical and emergency care settings. Leading manufacturers of these kits are engaged in developing innovative products for in vitro diagnostics. Pulset Arterial Blood Gas Complete Kits by AirLife, ICU Medical Pro-Vent Plus Arterial Blood Gas Sampling Kits by Thermo Fisher Scientific Inc, and BD Preset Eclipse Arterial Blood Collection Syringes are a few of the products available in the market

Based on needle gauge, the arterial blood gas kits market is segmented into 23G, 23G to 25G, and greater than 25G. The 23G to 25G segment held the largest market share in 2023.

Based on syringe volume, the arterial blood gas kits market is segmented into 1 ml, 3 ml, and others. The 3 ml segment held the largest market share in 2023.

Based on end user, the market is segmented into hospitals and clinics, diagnostic laboratories, and others. The hospitals and clinics segment dominated the market in 2023.

The scope of the healthcare manikins market report covers North America (the US, Canada, and Mexico), Europe (Spain, the UK, Germany, France, Italy, and the Rest of Europe), Asia Pacific (South Korea, China, Japan, India, Australia, and the Rest of Asia Pacific), Middle East & Africa (South Africa, Saudi Arabia, the UAE, and the Rest of

Middle East & Africa), and South & Central America (Brazil, Argentina, and the Rest of South & Central America). North America is the biggest contributor to the global healthcare manikins market. Asia Pacific is predicted to show the highest CAGR in the market during 2023–2031. The arterial blood gas kits market in Asia Pacific is sub segmented China, Japan, India, Australia, South Korea, Kazakhstan, and the Rest of Asia Pacific. Rising geriatric population, increasing chronic diseases, growing technological advancements, and surging number of startups are the factors favoring the market progress in this region. In India, respiratory diseases are responsible for the poor quality of life among the people. A surge in the awareness of respiratory diseases such as asthma, COPD, and respiratory syndrome would offer lucrative growth opportunities to the arterial blood gas kits market in the country. Respiratory distress syndrome (RDS) is a common breathing disorder observed in premature babies in India, causing 150,000 deaths annually. According to a Global Burden of Disease (GBD) report, chronic obstructive pulmonary disease (COPD) is the second largest cause of death and disability-adjusted life years (DALYs) in India. As per the Lancet Global Health data in April 2020, ~300 million people in the world were affected by asthma, and 37.9 million of these were Indians.

Statistics by the Government of India indicate that India, the world's second-most populated country, has seen a tremendous demographic shift in the last 50 years, with nearly a tripling of the elderly population over the age of 60. According to a BQ Prime article, ~138 million people in India aged 60 years and above in 2021, which is expected to reach 194 million by the end of 2031. India's elderly population is estimated to surpass the population of children under 14 years by 2050. Aging is an independent predictor of acute respiratory disease, particularly in critically ill older individuals.

European Union (EU), Organisation for Economic Co-operation and Development (OECD), and National Library of Medicine (NLM) are a few key primary and secondary sources referred to while preparing the report on the healthcare manikins market.

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