

Middle East & Africa Endothelial Dysfunction Market Forecast to 2028 - Regional Analysis - by Cause (Hypertension, Diabetes, Hypercholesterolaemia, Bechet's Disease, Obesity, and Others), Test Type [Invasive Tests and Non-Invasive Tests (Flow Mediated Dilatory, Peripheral Arterial Tonometry (PAT), Venous Occlusion Pletismography, Circulating Markers, and Others)], and End User (Hospitals, Ambulatory Surgery Centers, Specialty Clinics, and Others)

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Abstracts

The Middle East & Africa endothelial dysfunction market is expected to grow from US\$ 62.11 million in 2022 to US\$ 75.11 million by 2028. It is estimated to grow at a CAGR of 3.2% from 2022 to 2028.

Use of Non-invasive Methods to Assess Endothelial Dysfunction Fuels Middle East & Africa Endothelial Dysfunction Market

Endothelial dysfunction is a strong prognostic factor for cardiovascular events and mortality in the population. Assessment of endothelial function can aid in selecting therapies and assessing their response. While invasive angiography remains the gold standard for measuring coronary endothelial function, several noninvasive imaging techniques have evolved to study both coronary and peripheral endothelial function. Available endothelial testing methods are helpful for mechanistically understanding diseases and risk stratification and prognoses, such as high-resolution B-mode

ultrasound and Doppler, computed tomography angiography, cardiovascular magnetic resonance (CMR), magnetic resonance imaging (MRI), and positron emission tomography (PET).

Noninvasive methods for assessing endothelial function are mainly used in scientific research since there is a significant risk of complications due to the specificity of endovascular interventions. One of the noninvasive methods to assess endothelial function is to measure fluorescence. Flow-mediated skin fluorescence (FMSF) is based on the fluorescence measurement of the reduced nicotinamide adenine dinucleotide (NADH) emitted by skin cells in response to UV light excitation. The test consists of three phases: recording the fluorescence's background intensity, occlusion phase, and reaction registration. FMSF allows the determination of tissue and vascular bed response during ischemia, while classical Flow-Mediated Dilatation (FMD) techniques are based on a study of vasomotor reactivity. The classic FMD method for assessing the intensity of reactive hyperemia comprises three phases: measurement of the diameter of a selected artery (e.g., brachial artery), stimulation phase, and measurement after stimulation. Reactive peripheral arterial hyperemia tonometry (RH-PAT) is a modified FMD method used in EndoPAT devices. The method has been extensively validated in numerous publications as a diagnostic and predictive tool for assessing vascular risk. The closed zone FMD method (EZ-FMD) is based on oscillometric blood pressure measurement.

Middle East & Africa Endothelial Dysfunction Market Overview

Middle East & Africa consists of countries such as Saudi Arabia, the UAE, South Africa, and the Rest of Middle East. The growth of the market is attributed to increasing cases of chronic diseases that are primary factors or endothelial dysfunction, growing collaborations between governments to enhance healthcare facilities in South Africa, and growing incidences of obesity.

Middle East & Africa Endothelial Dysfunction Market Revenue and Forecast to 2028 (US\$ Million)

Middle East & Africa Endothelial Dysfunction Market Segmentation

The Middle East & Africa endothelial dysfunction market is segmented into cause, test type, end user, and country.

Based on cause, the Middle East & Africa endothelial dysfunction market is segmented

into hypertension, hypercholesterolaemia, obesity, diabetes, behcet's disease, and others. The hypertension segment registered the largest Middle East & Africa endothelial dysfunction market share in 2022.

Based on test type, the Middle East & Africa endothelial dysfunction market is segmented into invasive test and non-invasive test. The invasive test segment held a larger Middle East & Africa endothelial dysfunction market share in 2022. The non-invasive test segment is further subsegmented into flow mediated dilatatory, peripheral arterial tonometry (PAT), venous occlusion pletismography, circulating markers, and others.

Based on end user, the Middle East & Africa endothelial dysfunction market has been categorized into hospitals, diagnostic centers, clinics, and others. The hospitals segment held the largest Middle East & Africa endothelial dysfunction market share in 2022.

Based on country, the Middle East & Africa endothelial dysfunction market is segmented into the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa endothelial dysfunction market in 2022.

ZOLL Medical Corp, The Polymath Co, Perimed AB, SMART Medical Ltd, and Medizinische Messtechnik GmbH are some of the leading companies operating in the endothelial dysfunction market in the region.

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