

Volumetric Analysis of Blood Gas and Electrolyte Analyzer Market, by Type (Analyzers/Instruments and Consumables), and Overall Number of ICU, CCU, and NICU by Region (North America, Europe, Asia-Pacific, and LAMEA) - Global Opportunity Analysis and Industry Forecast, 2017-2023

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Abstracts

Volumetric Analysis of Blood Gas and Electrolyte Analyzer Market Overview:

The global market volume for blood gas and electrolyte analyzers was 2,733 thousand units in 2016, and is expected to grow with a CAGR of 8.2% from 2017 to 2023 to reach 4,749 thousand units by 2023.

Blood gas analyzers are used to measure different parameters such as pH, blood gas such as pCO₂ and pO₂, electrolytes, and metabolites from the whole blood sample.

Blood is collected from the patient and introduced into the analyzer.

The analyzer leads the blood into a measuring chamber, which has ion selective electrodes (IE), the electrodes that are sensitive only to the measurement of interest. This analysis of the blood sample helps to detect medical conditions such as kidney failure, heart failure, uncontrolled diabetes, hemorrhage, chemical poisoning, a drug overdose, shock, asthma, and chronic obstructive pulmonary disease (COPD). Doctors recommend for blood gas test if symptoms such as shortness of breath, difficulty in breathing, confusion, and nausea are witnessed. The pH value of blood, serum, or plasma is an indicator of the balance between the blood, renal (kidney), and lung (respiratory) systems, that is, depending on acidic or basic blood sample of the patients, the functioning of these vital organs of the body can be determined. The pCO₂ (a by-product of metabolism) and pO₂ value of arterial blood is a measure of how well the body eliminates carbon dioxide and can absorb oxygen in the lungs, which helps to determine the working of the lungs and related organs. Electrolytes and metabolites

give further information about body chemistry.

As blood gas and electrolyte analyzers have wide applications, they are used in a variety of medical facilities, including intensive care units (ICUs), neonatal intensive care units (NICUs), and coronary care units (CCUs). This report includes the study of number of ICUs, NICUs, and CCUs from 2016 to 2023 across North America, Europe, Asia-Pacific, and LAMEA. Furthermore, the report discusses about the number of these units (ICUs, NICUs, and CCUs) that do not use a point-of-care blood gas and electrolyte analyzer. In addition, the report includes market share analysis for devices and consumables by value and volume.

Key Benefits for Stakeholders

The study provides analysis of the blood gas analyzers and electrolyte analyzer market with current trends and future estimations to elucidate the imminent investment pockets in the market.

The report provides a quantitative analysis from 2016 to 2023 to enable stakeholders to capitalize on prevailing market opportunities.

Extensive analysis by volume helps to understand the usage of devices and consumables and prevailing opportunities in the respective market.

Comprehensive analysis of key market players within the market predicts the competitive outlook of the global blood gas and electrolyte analyzers market.

Volumetric Analysis of Blood Gas and Electrolyte Analyzer Market Key Segments: By Type

Analyzers/Instruments

By Product

Blood Gas Analyzers

Electrolyte Analyzers

Combined Analyzers

By Modality

Portable

Benchtop

Laboratory

Consumables

Contents

CHAPTER: 1 INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS
- 1.3. KEY SEGMENTS
- 1.4. RESEARCH METHODOLOGY
 - 1.4.1. Secondary research
 - 1.4.2. Primary research
 - 1.4.3. Analyst tools and models

CHAPTER: 2 MARKET OVERVIEW

- 2.1. MARKET DEFINITION AND SCOPE
- 2.2. POINT-OF-CARE (POC) & BENCHTOP BLOOD GAS AND ELECTROLYTE ANALYZERS MARKET
 - 2.2.1. Market size and forecast
- 2.3. MARKET SHARE ANALYSIS, 2016
 - 2.3.1. Market share analysis for the value market of global blood gas and electrolyte analyzers, 2016
 - 2.3.2. Market share analysis for the value market of blood gas and electrolyte analyzers/instruments, 2016
 - 2.3.3. Market share analysis for the value market of consumables used in blood gas and electrolyte analyzers, 2016
 - 2.3.4. Market share analysis for the volume market of blood gas and electrolyte analyzers/instruments, 2016
 - 2.3.5. Market share analysis for the volume market of consumables used in blood gas and electrolyte analyzers, 2016
 - 2.3.6. Market share analysis for the value market of North America blood gas and electrolyte analyzers/instruments, 2016
 - 2.3.7. Market share analysis for the value market of Europe blood gas and electrolyte analyzers/instruments, 2016
 - 2.3.8. Market share analysis for the value market of Asia-Pacific blood gas and electrolyte analyzers/instruments, 2016
 - 2.3.9. Market share analysis for the value market of LAMEA blood gas and electrolyte analyzers/instruments, 2016
- 2.4. DATA FOR ICUS, NICUS, AND CCUS
 - 2.4.1. ICUs

- 2.4.1.1. Number of ICUs and forecast
- 2.4.2. NICUs
 - 2.4.2.1. Number of NICUs and forecast
- 2.4.3. CCUs
 - 2.4.3.1. Number of CCUs and forecast

CHAPTER: 3 BLOOD GAS AND ELECTROLYTE ANALYZERS MARKET, BY TYPE

3.1. OVERVIEW

- 3.1.1. Market size and forecast

3.2. ANALYZERS/INSTRUMENTS

- 3.2.1. Key market trends
- 3.2.2. Key growth factors and opportunities
- 3.2.3. Market size and forecast, by product
 - 3.2.3.1. Blood gas analyzers
 - 3.2.3.1.1. Market size and forecast
 - 3.2.3.2. Electrolyte analyzers
 - 3.2.3.2.1. Market size and forecast
 - 3.2.3.3. Combined analyzers
 - 3.2.3.3.1. Market size and forecast
- 3.2.4. Market size and forecast, by modality
 - 3.2.4.1. Laboratory
 - 3.2.4.1.1. Market size and forecast
 - 3.2.4.2. Benchtop
 - 3.2.4.2.1. Market size and forecast
 - 3.2.4.3. Portable
 - 3.2.4.3.1. Market size and forecast

3.3. CONSUMABLES

- 3.3.1. Key market trends
- 3.3.2. Key growth factors and opportunities
- 3.3.3. Market size and forecast

List Of Tables

LIST OF TABLES

TABLE 1. NUMBER OF ICUS, BY REGION, (2016-2023)

TABLE 2. NUMBER OF NICUS, BY REGION, (2016-2023)

TABLE 3. NUMBER OF CCUS, BY REGION, (2016-2023)

TABLE 4. GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS VALUE
MARKET, BY TYPE, 2016-2023, (\$MILLION)

TABLE 5. GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS VOLUME
MARKET, BY TYPE, 2016-2023, (THOUSAND UNITS)

TABLE 6. GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS
VALUE MARKET, BY PRODUCT TYPE, 2016-2023, (\$MILLION)

TABLE 7. GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS
VOLUME MARKET, BY PRODUCT TYPE, 2016-2023, (THOUSAND UNITS)

TABLE 8. GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS
VALUE MARKET, BY MODALITY, 2016-2023, (\$MILLION)

TABLE 9. GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS
VOLUME MARKET, BY MODALITY, 2016-2023, (THOUSAND UNITS)

List Of Figures

LIST OF FIGURES

FIGURE 1. GLOBAL POC BLOOD GAS AND ELECTROLYTE ANALYZERS MARKET, (2016-2023) (\$MILLION)

FIGURE 2. MARKET SHARE ANALYSIS FOR GLOBAL BLOOD GAS AND ELECTROLYTE ANALYZERS VALUE MARKET, 2016

FIGURE 3. MARKET SHARE ANALYSIS FOR BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS VALUE MARKET, 2016

FIGURE 4. MARKET SHARE ANALYSIS FOR BLOOD GAS AND ELECTROLYTE ANALYZERS CONSUMABLES VALUE MARKET, 2016

FIGURE 5. MARKET SHARE ANALYSIS FOR BLOOD GAS AND ELECTROLYTE ANALYZERS/ INSTRUMENTS VOLUME MARKET, 2016

FIGURE 6. MARKET SHARE ANALYSIS FOR BLOOD GAS AND ELECTROLYTE ANALYZERS CONSUMABLES VOLUME MARKET, 2016

FIGURE 7. MARKET SHARE ANALYSIS FOR NORTH AMERICA BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS VALUE MARKET, 2016

FIGURE 8. MARKET SHARE ANALYSIS FOR EUROPE BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS VALUE MARKET, 2016

FIGURE 9. MARKET SHARE ANALYSIS FOR ASIA-PACIFIC BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS VALUE MARKET, 2016

FIGURE 10. MARKET SHARE ANALYSIS FOR LAMEA BLOOD GAS AND ELECTROLYTE ANALYZERS/INSTRUMENTS VALUE MARKET, 2016

FIGURE 11. BLOOD GAS ANALYZERS MARKET, BY VALUE AND VOLUME, 2016-2023

FIGURE 12. ELECTROLYTE ANALYZERS MARKET, BY VALUE AND VOLUME, 2016-2023

FIGURE 13. COMBINED ANALYZERS MARKET, BY VALUE AND VOLUME, 2016-2023

FIGURE 14. LABORATORY ANALYZERS MARKET, BY VALUE AND VOLUME, 2016-2023

FIGURE 15. BENCHTOP ANALYZERS MARKET, BY VALUE AND VOLUME, 2016-2023

FIGURE 16. PORTABLE ANALYZERS MARKET, BY VALUE AND VOLUME, 2016-2023

FIGURE 17. BLOOD GAS AND ELECTROLYTE ANALYZERS MARKET FOR CONSUMABLES, BY VALUE AND VOLUME, 2016-2023

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