

# 2019 Hospital ER, OR and ICU Diagnostic Testing Market: Reagent and Instrument Supplier Shares, Sales Segment Forecasts for 300 Tests, Emerging Technologies, Instrumentation Review, Competitive Landscape, Opportunities for Suppliers

https://marketpublishers.com/r/21D275013FFEN.html

Date: June 2019 Pages: 973 Price: US\$ 7,500.00 (Single User License) ID: 21D275013FFEN

# Abstracts

VPGMarketResearch's new report provides comprehensive analysis of POC market segments, including their dynamics, size, growth, regulatory requirements, technological trends, competitive landscape, and emerging opportunities for instrument and consumable suppliers.

# Rationale

The growing economic pressures on hospitals, coupled with advances in diagnostic technologies, intensifying competition among suppliers and physicians, and changing consumer demands are shifting diagnostic testing from hospitals and commercial laboratories closer to the patient.

# Market Segmentation

Review of POC market segments, including their dynamics, trends, structure, size, growth and major suppliers.

Five-year test volume and reagent sales forecasts for chemistry, immunodiagnostic, microbiology, hematology and coagulation procedures by market segment:

**Emergency Rooms** 



#### **Operating/Recovery Suites**

ICUs/CCUs and by test category: Routine and Special Chemistry

Microbiology/Infectious Diseases

Hematology

Flow Cytometry

Coagulation

Immunoproteins

Drugs of Abuse

TDM

**Endocrine Function** 

**Tumor Markers** 

Sales and Market Share Analysis

Sales and market shares of major reagent and instrument suppliers.

Current and Emerging Tests and Instrumentation

Analysis of over 130 diagnostic procedures.

Review of leading chemistry, immunoassay, hematology and coagulation analyzers market by Abaxis, Abbott, Alfa Wasserman, Awareness technologies, Beckman Coulter/Danaher, Becton Dickinson, Behnk Elektronik, Biocode, Bio/Data, bioMerieux, Cardiovascular Diagnostics, Carolina Chemistries, Diagnostica Stago, Diesse Ves Matic, Drew-Scientific, Helena Laboratories,



Horiba, Instrumentation Laboratory, Inverness, ITC Hemochron, Medica, Menarini, Nihon Kohden, Nova Biomedical, Ortho-Clinical Diagnostics, Polymedco, Randox, Roche, Siemens, Sysmex, Teco Medical Instruments, Trinity Biotech, and other suppliers.

#### **Technology Review**

Emerging technologies and their applications for POC testing.

Comprehensive listings of companies developing or marketing POC diagnostic technologies and products, by test.

#### Strategic Recommendations

Specific opportunities for new POC instruments and reagent systems with potentially significant market appeal during the next five years.

Design criteria for POC testing products.

Alternative business expansion strategies.

Potential market entry barriers and risks.

#### **Competitive Assessments**

Assessments of major suppliers and emerging market entrants, including their sales, product portfolios, marketing tactics, joint ventures, and new products in R&D.

#### Methodology

This report is based on a combination of primary and secondary sources of information, including review of recent technical and business publications, manufacturer product literature, industry analyst reports, and VPGMarketResearch's proprietary data files.

Contains 973 pages and 153 tables



# **Contents**

#### INTRODUCTION

#### **RATIONALE FOR TESTING DECENTRALIZATION**

- 1. Overview
- 2. Regulatory Trends
- 3. Economic Trends
- 4. Demographic Trends
- 5. Technological Trends
- 6. Social Trends
- 7. Quality of Care
- 8. Defensive Medicine
- 9. Quality Control Issues

#### WORLDWIDE MARKET AND TECHNOLOGY OVERVIEW

#### **MAJOR ROUTINE CHEMISTRY TESTS**

- 1. Albumin
- 2. Alkaline Phosphatase
- 3. ALT/SGPT
- 4. Ammonia
- 5. Amylase
- 6. AST/SGOT
- 7. Bilirubin
- 8. Blood Gases
- 9. Blood Urea Nitrogen (BUN)
- 10. Calcium
- 11. Cholesterol
- 12. Cholinesterase
- 13. Creatinine
- 14. Electrolytes
- a. Carbon Dioxide/Bicarbonate
- b. Chloride
- c. Potassium
- d. Sodium
- 15. Ferratin



- 16. Follate/Folic Acid
- 17. Fructosamine
- 18. Gamma-Glutamyl Transpeptidase (GGT)
- 19. Glucose
- 20. High Density Lipoprotein (HDL)
- 21. Iron
- 22. Lactate Dehydrogenase (LDH)
- 23. Magnesium
- 24. Phosphorus
- 25. Protein
- 26. Triglycerides
- 27. Troponin
- 28. Uric Acid
- 29. Urinalysis
- 30. Vitamin B12

#### INFECTIOUS DISEASE TESTS

- 1. AIDS
- 2. Adenovirus
- 3. Campylobacter
- 4. Candida
- 5. Chlamydia
- 6. Clostridium Difficile
- 7. Cytomegalovirus
- 8. Enteroviruses
- 9. Epstein-Barr Virus
- 10. Gonorrhea
- 11. Helicobacter Pylori
- 12. Hepatitis
- a. Hepatitis A
- b. Hepatitis B
- c. Hepatitis C
- d. Hepatitis D
- 13. Herpes Simplex Virus
- 14. Human Herpes Virus-6 (HHV-6)
- 15. Influenza Viruses
- 16. Legionella
- 17. Lyme Disease



- 18. Measles (Rubeola)
- 19. Meningitis
- 20. Mononucleosis
- 21. Mumps
- 22. Mycoplasma
- 23. Papillomaviruses
- 24. Pneumonia
- 25. Respiratory Syncytial Virus (RSV)
- 26. Rheumatoid Arthritis
- 27. Rotavirus (Reovirus)
- 28. Rubella (German Measles)
- 29. Salmonellosis
- 30. Shigellosis
- 31. Staphylococcus Aureus
- 32. Streptococci
- 33. Syphilis

#### **TUMOR MARKERS**

- 1. Alpha-Fetoprotein (AFP)
- 2. Carcinoembrionic Antigen (CEA)
- 3. Occult Blood
- 4. Prostatic Acid Phosphatase (PAP)
- 5. Prostate-Specific Antigen (PSA)

#### MAJOR ROUTINE AND SPECIAL HEMATOLOGY TESTS

- 1. CBC Analysis
- a. Hemoglobin Concentration
- b. Hematocrit Determination
- c. Red Blood Cell Count
- d. Platelets

#### **ENDOCRINE FUNCTION TESTS**

- 1. Cortisol
- 2. Follicle-Stimulating Hormone (FSH)
- 3. Gastrin
- 4. Human Chorionic Gonadotropin (HCG)



- 5. LH
- 6. Prolactin
- 7. T3
- 8. T3 Uptake
- 9. Free T3
- 10. Thyroxine (T4)
- 11. Free T4
- 12. TBG
- 13. TSH

# THERAPEUTIC DRUG MONITORING (TDM)

- 1. Overview
- 2. Carbamazepine
- 3. Digoxin
- 4. Gentamicin
- 5. Lidocaine
- 6. Lithium
- 7. Phenytoin/Dilantin
- 8. Procainamide
- 9. Quinidine
- 10. Theophylline
- 11. Valproic Acid

# **COAGULATION TESTS**

- 1. Introduction
- 2. Activated Partial Thromboplastin Time (APTT)
- 3. Alpha-2 Antiplasmin
- 4. Antithrombin III
- 5. Bleeding Time
- 6. D-Dimer
- 7. Factor VIII
- 8. Fibrin Degradation Products
- 9. Fibrinogen
- 10. Heparin
- 11. Proteins C and S
- 12. Prothrombin Time (PT)
- 13. Thrombin Time

2019 Hospital ER, OR and ICU Diagnostic Testing Market: Reagent and Instrument Supplier Shares, Sales Segment...



#### **IMMUNOPROTEIN TESTS**

- 1. CRP
- 2. Immunoglobulins

#### DRUGS OF ABUSE

- 1. Overview
- 2. Test Methodologies
- 3. Amphetamines
- 4. Barbiturates
- 5. Benzodiazepines
- 6. Cannabinoids/Marijuana
- 7. Cocaine
- 8. Lysergic Acid Diethylamide (LSD)
- 9. Methadone
- 10. Methaqualone
- 11. Opiates
- 12. Phencyclidine

#### INSTRUMENTATION

1. Chemistry Analyzers Manufactured by:

Abaxis

Abbott

Alfa Wassermann

Awareness Technologies

Beckman Coulter/Danaher

bioMeriuex

- Carolina Chemistries
- Horiba
- Inverness
- Medica
- Nova Biomedical
- **Ortho-Clinical Diagnostics**
- Polimedco
- Randox
- Roche



2. Hematology Analyzers Manufactured by:

Abbott

**Becton Dickinson** 

Beckman Coulter/Danaher

Biocode

**Drew-Scientific** 

**Diesse Ves Matic** 

Horiba

Menarini

Nihon Kohden

Polymedco

Sysmex

- 3. Coagulation Analyzers Manufactured by:
  - Behnk Elektronik

Bio/Data

- Cardiovascular Diagnostics
- Diagnostica Stago
- Helena Laboratories
- Instrumentation Laboratory
- **ITC Hemochron**

Roche

- Siemens
- Sysmex

Teco Medical Instruments

Trinity Biotech

#### **CURRENT AND EMERGING TECHNOLOGIES**

- 1. Monoclonal Antibodies
- 2. Immunoassays
  - a. Technological Principle
  - b. Enzyme Immunoassays (EIA)
    Overview
    ELISA
    Dot Immunobinding Assays
    Capillary Immunoassays
    Particle-Membrane Capture Immunoassay
    Enzyme Amplification
  - c. Fluorescent Immunoassays



**Fluorescent Polarization** 

Time-Resolved Pulse Fluorescence

- d. Luminescence Chemiluminescence Bioluminescence
- e. Latex Agglutination
- f. Immunoprecipitation
- 3. Dry Chemistry
- 4. Biosensors
- 5. IT and Automation
- 6. Molecular Diagnostics
  - a. Technology Overview
  - b. Amplification Methods
    Polymerase Chain Reaction
    Ligase Chain Reaction
    Branched DNA
    Q-Beta Replicase
    Strand Displacement Activation
    Self-Sustained Sequence Replicase

#### WORLDWIDE BUSINESS ENVIRONMENT

#### U.S.A.

Market Overview

- 1. Business Environment
- a. Health Care Expenditures
- b. Cost Consciousness
- c. Reimbursement
- d. Industry Consolidation
- e. Managed Care
- PPO

HMO

- f. Hospitals
- g. Admissions
- h. Length of Stay
- i. Industry Diversification
- j. Physician Demographics
- k. Aging Population

2019 Hospital ER, OR and ICU Diagnostic Testing Market: Reagent and Instrument Supplier Shares, Sales Segment.



More Chronic Illness

Disease Incidence

Susceptibility to latrogenesis

- Multiple Illnesses Cases
- I. Laboratory Regulations
- 2. Market Structure
  - a. Hospitals
- b. Commercial/Private Laboratories
- Ancillary Hospital Locations
  - 1. Introduction
  - a. Emergency Departments
  - b. Operating Suites
  - c. Intensive Care Units
  - 2. Emergency Departments
  - a. Market Summary
  - b. Test volume and Sales Forecasts
  - 3. Operating and Recovery Suites
  - a. Market Summary
  - b. Test Volume and Sales Forecasts
  - 4. ICUs/CCUs
    - a. Market Summary
  - b. Test Volume and Sales Forecasts

# MAJOR SUPPLIERS' INSTRUMENT PLACEMENTS, INSTALLED BASE, CONSUMABLE SALES AND MARKET SHARES

# MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

- A. Routine and Special Chemistry
- B. Microbiology/Infectious Diseases
- C. Hematology and Flow Cytometry
- D. Coagulation

# DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

# ALTERNATIVE MARKET PENETRATION STRATEGIES

- A. Internal Development
- B. Collaborative Arrangements



- C. University Contracts
- D. Distribution Strategies for Decentralized Testing Markets
  - 1. Marketing Approaches
  - 2. Product complexity
  - 3. Customer Preference
  - 4. Established Suppliers
  - 5. Emerging Suppliers
  - 6. Major Types of Distributors
- 7. Market Segmentation

#### POTENTIAL MARKET ENTRY BARRIERS AND RISKS

- A. Market Maturity
- B. Cost Containment
- C. Competition
- D. Technological Edge and Limitations
- E. Patent Protection
- F. Regulatory Constraints
- G. Decentralized Testing Market Challenges

#### **COMPANY PROFILE**

Abbott ADI/America Diagnostica **Agilent Technologies** Axis-Shield Beckman Coulter/Danaher **Becton Dickinson** Bio/Data Biomerieux **Bio-Rad** Biosite/Inverness/Alere Cepheid Chrono-Log Corgenix Decode Diadexus Diagnocure Diagnostica Stago/Trinity Biotech



Diamedix Diasorin Eiken Chemical **EKF** Diagnostics Fujirebio/Innogenetics Grifols Helena Laboratories Hologic/Gen-Probe Horiba Instrumentation Laboratory International Technidyne/Nexus DX Kreatech Kyowa Medex Lonza Mackay Life Sciences Matritech Nihon Kohden **Ortho-Clinical Diagnostics** Polartechnics Polymedco Qiagen Roche SDIX Sequenom Siemens Sienco Sysmex Takara Bio ThermoFisher/Life Technologies Tosoh Wako Zycare/Alere





# **List Of Tables**

#### LIST OF TABLES

Major Companies Developing or Marketing Albumin Tests Major Companies Developing or Marketing Alkaline Phosphatase Tests Major Companies Developing or Marketing ALT/SGPT Tests Major Companies Developing or Marketing Amylase Tests Major Companies Developing or Marketing AST/SGOT Tests Major Companies Developing or Marketing Bilirubin Tests Major Companies Developing or Marketing Blood Gas Analyzers Major Companies Developing or Marketing BUN Tests Major Companies Developing or Marketing Calcium Tests Major Companies Developing or Marketing Cholesterol Tests Major Companies Developing or Marketing Creatinine Tests Major Companies Developing or Marketing Electrolyte Tests Major Companies Developing or Marketing Ferritin Tests Major Companies Developing or Marketing GGT Tests Major Companies Developing or Marketing Glucose Tests Major Companies Developing or Marketing HDL Tests Major Companies Developing or Marketing Iron Tests Major Companies Developing or Marketing LDH Tests Major Companies Developing or Marketing Magnesium Tests Major Companies Developing or Marketing Phosphorus Tests Major Companies Developing or Marketing Protein Tests Major Companies Developing or Marketing Triglycerides Tests Major Companies Developing or Marketing Uric Acid Tests Major Companies Developing or Marketing Vitamin B-12/Folate Tests Major Companies Developing or Marketing AIDS Tests Major Companies Developing or Marketing Adenovirus Tests Major Companies Developing or Marketing Campylobacter Tests Major Companies Developing or Marketing Candida Tests Major Companies Developing or Marketing CMV Tests Major Companies Developing or Marketing EBV Tests Major Companies Developing or Marketing Gonorrhea Tests Major Companies Developing or Marketing Helicobacter Pylori Tests Major Companies Developing or Marketing Hepatitis Tests Major Companies Developing or Marketing Herpes Tests Major Companies Developing or Marketing Influenza Tests



Major Companies Developing or Marketing Legionella Tests Major Companies Developing or Marketing Lyme Disease Tests Major Companies Developing or Marketing Measles Tests Major Companies Developing or Marketing Meningitis Tests Major Companies Developing or Marketing Mononucleosis Tests Major Companies Developing or Marketing Mumps Tests Major Companies Developing or Marketing Mycoplasma Tests Major Companies Developing or Marketing Pneumonia Tests Major Companies Developing or Marketing RSV Tests Major Companies Developing or Marketing Rotavirus Tests Major Companies Developing or Marketing Rubella Tests Major Companies Developing or Marketing Salmonella Tests Major Companies Developing or Marketing Shigella Tests Major Companies Developing or Marketing Streptococci Tests Major Companies Developing or Marketing Syphilis Tests Major Companies Developing or Marketing AFP Tests Major Companies Developing or Marketing CEA Tests Major Companies Developing or Marketing Occult Blood Tests Major Companies Developing or Marketing Prostatic Acid Phosphatase Tests Major Companies Developing or Marketing PSA Tests Major Companies Developing or Marketing FSH Tests Major Companies Developing or Marketing HCG Tests Major Companies Developing or Marketing LH Tests Major Companies Developing or Marketing Prolactin Tests Major Companies Developing or Marketing T3 Tests Major Companies Developing or Marketing T4 Tests Major Companies Developing or Marketing TSH Tests Major Companies Developing or Marketing TDM Tests Major Companies Developing or Marketing Digoxin Tests Major Companies Developing or Marketing Lithium Tests Major Companies Developing or Marketing Phenytoin/Dilantin Tests Major Companies Developing or Marketing Theophylline Tests Major Companies Developing or Marketing Valproic Acid Tests Major Companies Developing or Marketing APTT Tests Major Companies Developing or Marketing Alpha-2 Antiplasmin Tests Major Companies Developing or Marketing Altithrombin III Tests Major Companies Developing or Marketing Bleeding Time Tests Major Companies Developing or Marketing D-Dimer Tests Major Companies Developing or Marketing Factor Assays Tests



Major Companies Developing or Marketing Fibrin Degradation Product Tests

- Major Companies Developing or Marketing Fibrinogen Tests
- Major Companies Developing or Marketing Heparin Tests
- Major Companies Developing or Marketing Protein C Tests
- Major Companies Developing or Marketing Protein S Tests
- Major Companies Developing or Marketing PT Tests
- Major Companies Developing or Marketing Thrombin Time Tests
- Major Companies Developing or Marketing CRP Tests
- Major Companies Developing or Marketing Drugs of Abuse Tests
- Ancillary Hospital Locations Estimated Number
- Ancillary Hospital Locations
- Annual Utilization
- Hospital Emergency Departments Total Diagnostics Sales Forecast by Market Segment Hospital Emergency Departments Reagent Sales Forecast by Market Segment
- Hospital Emergency Departments Instrument Sales Forecast by Market Segment
- Hospital Emergency Departments Routine and Special Chemistry Test Volume Forecast
- Hospital Emergency Departments
- Profiles Panels and Individual Tests
- Hospital Emergency Departments
- Drugs of Abuse Test Volume Forecast
- Hospital Emergency Departments Routine Hematology Test Volume Forecast
- Hospital Emergency Departments Coagulation Test Volume Forecast
- Hospital Emergency Departments
- Selected Infectious Disease Test Volume Forecast
- Hospital Emergency Departments Routine and Special Chemistry Reagent Market
- Forecast by Test
- Hospital Emergency Departments
- Drugs of Abuse Reagent Market Forecast by Test
- Hospital Emergency Departments Hematology Reagent Market Forecast
- Hospital Emergency Departments
- **Coagulation Reagent Market Forecast**
- Hospital Emergency Departments
- Selected Infectious Disease Reagent Market Forecast by Test
- Hospital Operating and Recovery Suites Total Diagnostics Sales Forecast by Market Segment
- Hospital Operating and Recovery Suites Reagent Sales Forecast by Market Segment Hospital Operating and Recovery Suites Instrument Sales Forecast By Market Segment Hospital Operating and Recovery Suites Routine and Special Chemistry Reagent Test



#### Volume Forecast

Hospital Operating and Recovery Suites Routine Hematology Test Volume Forecast Hospital Operating and Recovery Suites Coagulation Test Volume Forecast Hospital Operating and Recovery Suites Routine and Special Chemistry Reagent Market Forecast by Test Hospital Operating and Recovery Suites Hematology Reagent Market Forecast Hospital Operating and Recovery Suites **Coagulation Reagent Market Forecast** Hospital ICUs/CCUs Total Diagnostics Sales Forecast by Market Segment Hospital ICUs/CCUs Reagent Sales Forecast by Market Segment ICUs/CCUs Instrument Sales Forecast by Market Segment Hospital ICUs/CCUs Routine and Special Chemistry Test Volume Forecast Hospital ICUs/CCUs Routine Hematology Test Volume Forecast Hospital ICUs/CCUs Coagulation Test Volume Forecast Hospital ICUs/CCUs Routine and Special Chemistry Reagent Market Forecast by Test Hospital ICUs/CCUs Hematology Reagent Market Forecast Hospital ICUs/CCUs Coagulation Reagent Market Forecast Major Suppliers of Clinical Chemistry Diagnostic Products, Estimated Sales and Market Shares Major Suppliers of Clinical Chemistry Reagents, Estimated Sales and Market Shares Major Suppliers of Clinical Chemistry Analyzers, Estimated Sales and Market Shares Major Suppliers of Immunodiagnostic Products, Estimated Sales and Market Shares Major Suppliers of Immunoassay Reagents, Estimated Sales and Market Shares Major Suppliers of Immunoassay Analyzers, Estimated Sales and Market Shares AIDS Testing Market Estimated Market Shares of Major Suppliers Chlamydia Testing Market Estimated Market Shares of Major Suppliers CMV Testing Market Estimated Market Shares of Major Suppliers Gonorrhea Testing Market Estimated Market Shares of Major Suppliers Helicobacter Pylori Testing Market Estimated Market Shares of Major Suppliers Hepatitis Testing Market Estimated Market Shares of Major Suppliers Herpes Testing Market Estimated Market Shares of Major Suppliers Influenza Testing Market Estimated Market Shares of Major Suppliers



Lyme Disease Testing Market Estimated Market Shares of Major Suppliers Mononucleosis Testing Market Estimated Market Shares of Major Suppliers Rubella Testing Market Estimated Market Shares of Major Suppliers Streptococci Testing Market Estimated Market Shares of Major Suppliers Syphilis Testing Market Estimated Market Shares of Major Suppliers AFP Testing Market by Major Supplier CA 15-3/27-29 Testing Market by Major Supplier CA 19-9 Testing Market by Major Supplier CEA Testing Market by Major Supplier PAP Testing Market by Major Supplier PSA Testing Market by Major Supplier Hematology Analyzers Estimated Placements and Installed Base Flow Cytometers Estimated Placements and Installed Base Hematology Diagnostics Market Estimated Market Shares of Major Suppliers Hematology Instrument Market Estimated Market Shares of Major Suppliers Hematology Consumable Market Estimated Market Shares of Major Suppliers Flow Cytometry Diagnostics Market Estimated Market Shares of Major Suppliers Flow Cytometry Consumable Market Estimated Market Shares of Major Suppliers Flow Cytometry Instrument Market Estimated Market Shares of Major Suppliers Major Suppliers of Coagulation

Diagnostic Products, Estimated Market Shares of Major Suppliers



#### I would like to order

Product name: 2019 Hospital ER, OR and ICU Diagnostic Testing Market: Reagent and Instrument Supplier Shares, Sales Segment Forecasts for 300 Tests, Emerging Technologies, Instrumentation Review, Competitive Landscape, Opportunities for Suppliers

Product link: https://marketpublishers.com/r/21D275013FFEN.html

Price: US\$ 7,500.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: info@marketpublishers.com

#### Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/21D275013FFEN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

\*\*All fields are required

Custumer signature \_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below



and fax the completed form to +44 20 7900 3970