

2024 Critical Care Diagnostics Market in Ancillary Hospital Locations (ER, OR, ICU): Supplier Shares and Strategies, Instrumentation Review, Emerging Technologies

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Abstracts

This 973-page report contains 153 tables and provides a comprehensive analysis of the diagnostic testing markets outside the main hospital laboratory (ERs, ORs, and ICUs). The report includes analysis of the market dynamics, size, growth, regulatory requirements, technological trends, competitive landscape, and emerging opportunities for instrument and consumable suppliers. We trust, this report will help diagnostic products suppliers develop more effective business, R&D and marketing strategies. The report is available by section, and can be customized to specific information needs and budget.

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 closer to the patient.

Market Segmentation Analysis

Review of the ER, OR and ICU market segments, including their dynamics, trends, structure, size, growth and major suppliers.

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

Emergency Rooms

Operating/Recovery Suites

ICUs/CCUs

and 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 Products

Analysis of over 130 diagnostic procedures.

Review of leading POC chemistry, immunoassay, hematology and coagulation analyzers, both currently marketed and those in development, including their

operating characteristics, features and selling prices.

Technology Review

Emerging technologies and their applications for POC testing.

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

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.

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.

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

2. 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

2. 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
12. Cholesterol
13. Cholinesterase
13. Creatinine
14. Electrolytes
 - a. Carbon Dioxide/Bicarbonate
 - b. Chloride
 - c. Potassium
 - d. Sodium
15. Ferritin
16. Folate/Folic Acid
17. Fructosamine

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

Infectious Disease Tests

2. AIDS
2. Adenovirus
3. Campylobacter
4. Candida
5. Chlamydia
6. Clostridium Difficile
7. Cytomegalovirus
8. Enteroviruses
9. Epstein-Barr Virus
10. Gonorrhoea
12. Helicobacter Pylori
13. 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
22. Mumps

- 23. Mycoplasma
- 23. Papillomaviruses
- 24. Pneumonia
- 25. Respiratory Syncytial Virus (RSV)
- 26. Rheumatoid Arthritis
- 27. Rotavirus (Reovirus)
- 28. Rubella (German Measles)
- 29. Salmonellosis
- 30. Shigellosis
- 32. Staphylococcus Aureus
- 33. Streptococci
- 33. Syphilis

Tumor Markers

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

Major Routine and Special Hematology Tests

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

Endocrine Function Tests

- 2. 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)
- 12. Free T4
- 13. TBG
- 13. TSH

Therapeutic Drug Monitoring (TDM)

- 2. Overview
- 2. Carbamazepine
 - 3. Digoxin
 - 4. Gentamicin
 - 5. Lidocaine
 - 6. Lithium
 - 7. Phenytoin/Dilantin
 - 8. Procainamide
 - 9. Quinidine
 - 10. Theophylline
 - 12. Valproic Acid
- Coagulation Tests
 - 2. 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
 - 12. Proteins C and S
 - 13. Prothrombin Time (PT)
 - 13. Thrombin Time
- Immunoprotein Tests
 - 2. CRP
 - 2. Immunoglobulins
- Drugs of Abuse
 - 2. Overview
 - 2. Test Methodologies
 - 3. Amphetamines
 - 4. Barbiturates
 - 5. Benzodiazepines
 - 6. Cannabinoids/Marijuana
 - 7. Cocaine
 - 8. Lysergic Acid Diethylamide (LSD)
 - 9. Methadone
 - 10. Methaqualone

12. Opiates

13. Phencyclidine

Instrumentation

2. Chemistry Analyzers Manufactured by:

Abaxis

Abbott

Alfa Wassermann

Awareness Technologies

Beckman Coulter/Danaher

bioMérieux

Carolina Chemistries

Horiba

Medica

Nova Biomedical

Ortho-Clinical Diagnostics

Polymedco

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

Roche

Siemens Healthineers

Sysmex

Teco Medical Instruments

Trinity Biotech

Current and Emerging Technologies

2. 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

2. 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

More Chronic Illness

Disease Incidence

Susceptibility to Iatrogenesis

Multiple Illnesses Cases

l. Laboratory Regulations

2. Market Structure

a. Hospitals

b. Commercial/Private Laboratories

Ancillary Hospital Locations

2. 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 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
 - 2. 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 PROFILES

Abbott
Accriva
Agilent Technologies
Axis-Shield
Beckman Coulter/Danaher

Becton Dickinson
Bio/Data
bioMerieux
Bio-Rad
Cepheid
Chrono-Log
Corgenix
Decode Genetics
Diagnostica Stago
Diamedix
DiaSorin
Eiken Chemical
EKF Diagnostics
Fujirebio
Grifols
Helena Laboratories
Hologic
Horiba
Instrumentation Laboratory/Werfen
Kyowa Medex
Leica Biosystems
Lonza
Nihon Kohden
Ortho-Clinical Diagnostics
Polymedco
Qiagen
Roche
SDIX
Sekisui Diagnostics
Sequenom
Siemens Healthineers
Sienco
Sysmex
Takara Bio
Thermo Fisher
Tosoh
Wako

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 Gonorrhoea 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

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