

2015 US Critical Care Diagnostic Testing Market: Ancillary Hospital Locations (ER, OR, ICU)

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Abstracts

This 973-page report contains 153 tables and provides 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. 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 Venture Planning Group's proprietary data files.

Contains 973 pages and 153 tables

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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. Ferritin
16. Folate/Folic Acid
17. Fructosamine

18. Gamma-Glutamyl Transpeptidase (GGT)
19. Glucose
20. High Density Lipoprotein (HDL)
21. Iron
22. Lactate Dehydrogenase (LDH)
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24. Phosphorus
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27. Troponin
28. Uric Acid
29. Urinalysis
30. Vitamin B12 Infectious Disease Tests
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 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. Carcinoembryonic 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
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3. Gastrin
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11. Free T4
12. TBG
13. TSH

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4. Gentamicin
5. Lidocaine
6. Lithium
7. Phenytoin/Dilantin
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11. Valproic Acid

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9. Fibrinogen
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12. Phencyclidine

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1. Chemistry Analyzers Manufactured by:

Abaxis

Abbott

Alfa Wassermann

Awareness Technologies

Beckman Coulter/Danaher

bioMeriux

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

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4. Biosensors

5. IT and Automation

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Ligase Chain Reaction

Branched DNA

Q-Beta Replicase

Strand Displacement Activation

Self-Sustained Sequence Replicase

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U.S.A.

Market Overview

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 - b. Cost Consciousness
 - c. Reimbursement
 - d. Industry Consolidation
 - e. Managed Care
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 - HMO
 - f. Hospitals
 - g. Admissions
 - h. Length of Stay
 - i. Industry Diversification
 - j. Physician Demographics
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 - Disease Incidence
 - Susceptibility to Iatrogenesis
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- D. Coagulation

DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

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- 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
Helena Laboratories
Hologic/Gen-Probe
Horiba
Instrumentation Laboratory
International Technidyne/Nexus DX
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