

# New Frontiers in Physician Office Diagnostic Testing: Business Challenges, Emerging Technologies, Competitive Landscape

https://marketpublishers.com/r/NC127692D95EN.html

Date: May 2014 Pages: 970 Price: US\$ 10,000.00 (Single User License) ID: NC127692D95EN

# **Abstracts**

New Frontiers in Physician Office Diagnostic Testing: Business Challenges, Emerging Technologies, Competitive Landscape is Venture Planning Groups new report, which provides comprehensive analysis of the physician office market segment, including 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 thephysician office market segment, including dynamics, trends, structure, size, growth and major suppliers.

Five-year test volume and reagent sales forecasts for over 300 chemistry, immunodiagnostic, microbiology, hematology and coagulation procedures 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.

Routine Clinical Chemistry Tests Albumin, Alkaline Phosphatase, ALT/SGPT,



Ammonia, Amylase, AST/SGOT, Bilirubin, Blood Gases, BUN (Blood Urea Nitrogen), Calcium, Cholesterol, Cholinesterase, Creatinine, CK-MB, Electrolytes (Carbon Dioxide/Bicarbonate, Chloride, Potassium, Sodium), Ferritin, Follate/Folic Acid, Fructosamine, GGT, Glucose, HDL, Iron, LDH, Magnesium, Phosphorus, Potassium, Protein, Sodium, Triglycerides, Troponin, Uric Acid, Urinalysis, Vitamin B12.

Infectious Disease Tests AIDS/HIV, Adenovirus, Aeromonads, Bartonella, Blastocystis Hominis, Campylobacter, Candida, Chancroid, Chlamydia, Clostridium, Coronavirus, Coxsackievirus, Cryptosporidium, Cyclospora, CMV, E. Coli, Echovirus, Encephalitis, Enterovirus, EBV, Giardia, Gonorrhea, Granuloma Inguinale, Hantavirus, H. Pylori, Hepatitis (A, B, C, D, E), Herpes Simplex Virus, Human Herpes Virus-6 (HHV-6), Influenza, Legionella, Lyme disease, Pymphogranuloma, Malaria, Measles, Meningitis, Mononucleosis, Microsporidium, Mononucleosis, Mumps, Mycoplasma, Polyomaviruses, Parvovirus B19, Pneumonia, Polyomaviruses, Pseudomonas, Rabies, RSV, Rhinovirus, Rheumatoid Arthritis, Rotavirus , Rubella, Salmonellosis, Septicemia, Shigella, Staphylococci, Streptococci, Syphilis, Toxoplasmosis, Trichomonas, Tuberculois, Vibrio, West Nile, Yersenia.

**Tumor Markers** ACTH, AFP, Beta-2 Microglobulin, CA 15-3/27.29, CA 19-9, CA 125, Calcitonin, Cathepsin, CEA, Chromogranin, Colon-Specific Antigen, Cytokeratins, Estrogen Receptor, Ferritin, Gastrin, HCG, Insulin, Interferons, Interleukins, Lymphocyte Subtyping, Neuron-Specific Enolase, Nucleolar, Occult Blood, Oncogenes, Pancreatic Oncofetal Antigen, Pap Smear, Parathyroid Hormone, Progesterone Receptor, Prostatic Acid Phosphatase, Prostatic Specific Antigen, S-100 Protein, Serotonin, Sialic Acid, Squamous Cell Carcinoma Ag, TDT, Thymidine Kinase, Thyroglobulin, Tissue Polypeptide Antigen, and others.

**Routine and Special Hematology Tests** CBC + 5-Part Differential, Manual Differential/Review, Hematocrit (Automated, Manual), Hemoglobin (Automated, Manual), Sedimentation Rate, Reticulocytes, WBC (Automated, Manual), Platelets (Automated, Manual), Bone Marrow Analysis, RBC, Eosinophils and others.

**Flow Cytometry Tests** Cell Surface Markers (CD4/CD8/T&B Lymphocytes, CD34, Others), Chemotherapy Monitoring (Leukemia/Lymphoma, Others), HLA Typing, Sperm Analysis, Cell Cycle Kinetics, Cell Function Testing, Chromosomal Abnormalities, Fetal Cell Analysis, Granulocyte Function, Receptor DNA/RNA Analysis, Cell Culturing.

**Endocrine Function Tests** Cortisol, Estradiol, FSH, HCG, Gastrin, LH, Progesterone, PTH/IO PTH, Prolactin, T3, T3 Uptake, Free T3, T4, Free T4, TBG, Testosterone, TSH.



**Therapeutic Drug Monitoring (TDM) Tests** Amikacin, Carbamazepine, Digoxin, Gentamicin, Lidocaine, Lithium, Methotrexate, Phenobarbital, Phenytoin/Dilatin, NAPA/Procainamide, Quinidine, Theophylline, Tobramycin, Valproic Acid, Vancomycin.

**Coagulation Tests** Activated Clotting Time (ACT) (1), Activated Protein C Resistance, Activated PTT (APTT), Alpha 2-Antiplasmin, Antithrombin III, Bleeding Time, D-Dimer, Factor II, Factor V, Factor V Leiden, Factor VII, Factor VIII, Factor IX, Factor Ixa, Factor X (Stuart Factor), Factor Xa, Factor XI, Factor XII, Factor XIII, Fibrin Degradation Products, Fibrinogen, Fletcher Factor/Pre-Kallikrein Factor Activation, Heparin/Anti-Factor Xa, Heparin-Induced Thrombocytopenia, Plasmin, Plasminogen, Plasminogen Activator Inhib., Platelet Function/Aggregation, Protein C, Protein S, Prothrombin Mutation, Prothrombin Time (PT), Reptilase Time, Thrombin Time, Von Willebrand's Factor Fav/Ag, and others.

**Immunoprotein Tests** C3, C4, CRP, IgA, IgE Soecific, IgE Total, IgG, Immunoglobulins, Protein Electrophoresis, and others.

### **Drugs of Abuse**

Amphetamines, Barbiturates, Benzodiazepines, Cannabinoids/Marijuana, Cocaine, LSD, Methadone, Methaqualone, Opiates, Phencyclidine, Propoxyphene, and others.

#### **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.

#### The companies analyzed in the report include:

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

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Polartechnics

Polymedco

Qiagen

Roche

SDIX

Sequenom

Siemens

Sienco

Sysmex

Takara Bio

ThermoFisher/Life Technologies

Tosoh

Wako

Zycare/Alere

#### 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 970 pages and 152 tables



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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

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Chemiluminescence

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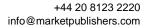
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#### **COMPANY PROFILE**

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





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