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Medical Imaging Products

US Industry Study with Forecasts for 2019 & 2024

Study #3315 | September 2015 | \$5300 | 218 pages

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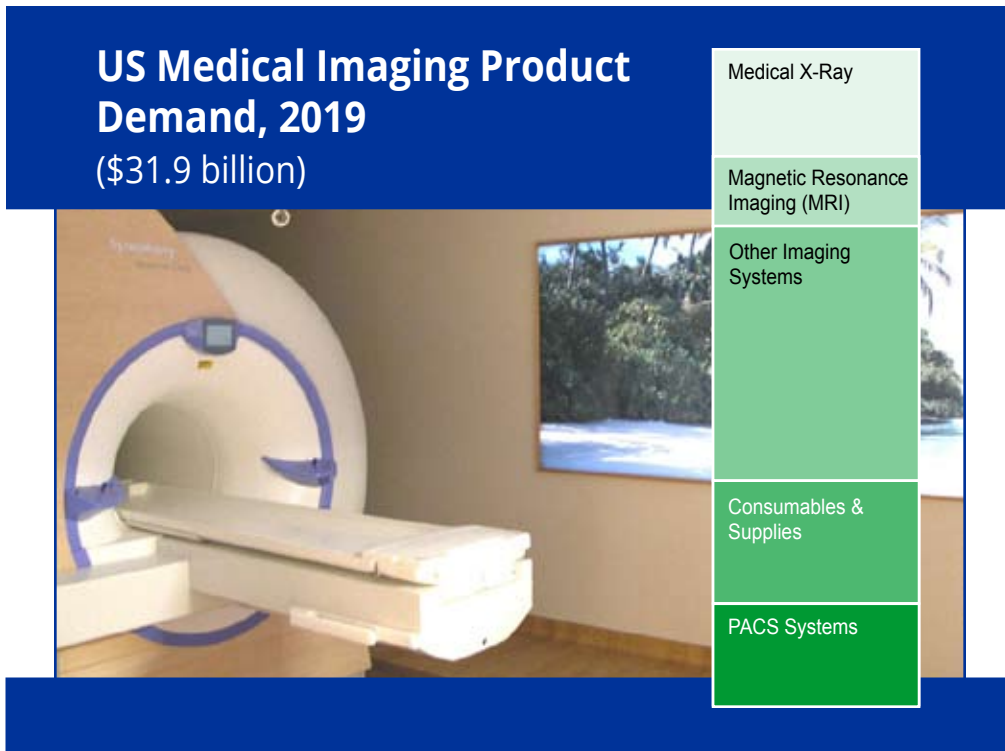
Gains will be driven in part by enhanced and expanded medical imaging products that help hospitals and large outpatient facilities improve the accuracy, quality, and efficiency of diagnostic procedures.

US demand to rise 5.8% annually through 2019

Demand for medical imaging products in the US is projected to rise 5.8 percent annually to \$31.9 billion in 2019, reflecting advancing technologies, aging demographic trends, evolving epidemiological patterns, and changing patient care strategies. New equipment, consumables, and data management systems with enhanced and expanded performance capabilities will build sales among hospitals and large outpatient facilities as they pursue improvements in the accuracy, quality, and efficiency of diagnostic procedures. The aging of the population will lead to an increasing level of diseases, disorders, and other health problems that are detected and analyzed through in vivo techniques. Trends promoting value-based patient care approaches will impact favorably on the market for medical imaging products that yield fast and accurate testing results and enable the long-term monitoring of therapeutic outcomes.

CT scanners to be fastest growing imaging systems

Demand for medical imaging equipment is forecast to rise 6.2 percent per year to \$20.7 billion in 2019. CT scanners will generate the fastest revenue growth as an increasing number of currently installed systems reach the end of their product life cycles and are replaced with higher value-added new-generation models. High-slice CT models will fare



particularly well in the marketplace based on the higher resolution of images, broader disease detection capabilities, and faster testing times that they offer. These scanners are able to detect the smallest of tumors or plaque deposits rapidly, making them well suited to the diagnosis of cancer and heart disease.

MRI, PET/CT systems among best opportunities

Among other medical imaging equipment, MRI, combination PET/CT, digital radiology systems, and handheld ultrasound devices will account for the fastest unit and revenue growth. High-field scanners will dominate new MRI

installations due to their ability to visualize exceptionally fine anatomical detail and to provide images of physiological processes. Combination PET/CT systems will expand applications in nuclear medicine based on dual anatomical and metabolic screening capabilities and advantages in blood flow analysis. Benefits of enhanced image quality and direct computerized processing and storage will promote the continuing replacement of computed radiology and analog X-ray machines with digital radiology equipment. Handheld ultrasound devices will command rapid sales growth as they provide for timely and cost-effective patient testing and therapeutic decision-making at point-of-care sites.

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Sample Text, Table & Chart

PRODUCTS

Medical Imaging Equipment

US demand for medical imaging equipment is projected to reach \$7 billion in 2019. Programs implemented in hospitals and facilities to modernize aging patient care facilities will drive gains. Accordingly, advanced medical imaging will see the fastest revenue growth in all product categories. Medical imaging provides for the visualization of internal structures for diagnosis and/or monitoring of complex conditions. Various modalities enable the detection of abnormalities such as plaque, tumors, and other abnormalities hidden in skin tissue. Medical imaging also confirms the presence of normal anatomical structures, physiological conditions and the absence of disease markers.

Growth prospects for medical imaging equipment will vary by type depending on the average age and technological status of existing installations, trends in the incidence or prevalence of conditions tested, availability of current-generation refurbished or reconditioned models, and degree of competition from alternative products. X-ray systems will continue to post the largest share of revenues over the long term based on versatile applications, overall cost effectiveness, and ongoing changeover by medical and dental providers to digital radiography units. However, CT and MRI scanners will generate the fastest growth in demand value due to the large percentage of existing installations at or near the end of their product life cycles. Moreover, CT and MRI technologies have advanced rapidly over the past few years, resulting in the introduction of new-generation models with greatly expanded performance capabilities over previous equipment.

The continuing substitution of lower cost portable and handheld devices for fixed systems will slow revenue growth generated by ultrasound scanners to below average levels through 2019 and 2024. Nuclear medicine systems will fare better in the US marketp

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SAMPLE
TEXT

TABLE III-13

NUCLEAR MEDICINE SYSTEM DEMAND BY TYPE

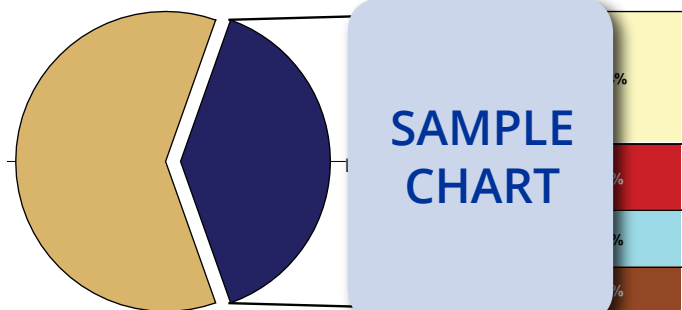
Item	2004	2009	2014	2019	2024
Nuclear Medicine Installations (units)					
% additions & replacements					
Nuclear Medicine System Demand (units)					
SPECT & SPECT/CT					
PET & PET/CT					
Other Gamma Cameras					
000\$/unit					
Nuclear Medicine System Demand (mil \$)					
SPECT & SPECT/CT					
PET & PET/CT					
Other Gamma Cameras					
% nuclear medicine systems					
Medical Imaging Equip Demand (mil \$)					

SAMPLE
TABLE

Source: The Freedonia Group, Inc.

CHART V-1

MEDICAL IMAGING PRODUCTS MARKET SHARE, 2014 (\$24.1 billion)



Sample Profile & Table, & Study Coverage

TABLE IV-3
HOSPITAL MEDICAL IMAGING PRODUCT DEMAND
 (million dollars)

Item	2004	2009	2014	2019	2024
Number of Hospitals 000\$ imaging products/hospital					
Hospital Demand					
Medical Imaging Equipment:					
Medical X-Ray					
Magnetic Resonance Imaging					
Ultrasound					
Computed Tomography					
Nuclear Medicine					
Other					
Consumables					
PACS Systems					
% hospitals Medical Imaging Product Markets					

Source: The Freedonia Group, Inc.

COMPANY PROFILES

Acceleware Limited
 435 - 10th Avenue Southeast
 Calgary, Alberta T2G 0W3
 Canada
 403-249-
 http://w
 Revenue
 Employ

Key Pro tomogra one beam computed

Acc parallel computing software systems primarily for the oil and gas, and computer-aided engineering markets. The Company also provides high-performance computing consulting services.

Acceleware participates in the US medical imaging equipment industry through the development of AXRECON image reconstruction software for medical imaging, security, and non-destructive testing applications. This software is designed to work with existing cone beam computed tomography (CT) systems to reduce image processing time from hours to minutes, thereby accelerating imaging workflow. AXRECON software is intended to substantially accelerate filtered back projection computations, allowing users to more rapidly reconstruct their data and improve image quality.

In April 2013, Acceleware licensed AXRECON image reconstruction software's source code to SCANCO Medical AG (Switzerland). Under the terms of the agreement, SCANCO Medical serves as the exclusive provider of AXRECON software to the global medical imaging market. SCANCO Medical intends to continue developing AXRECON

SAMPLE PROFILE

SAMPLE TABLE

STUDY COVERAGE

This Freedonia study, *Medical Imaging Products*, presents historical demand data (2004, 2009, 2014) plus forecasts (2019, 2024) by product and market in the US. The study also considers key market environment factors, details industry structure, assesses company market share and profiles 26 US industry competitors.

Related Studies

Biocompatible Materials

US demand for biocompatible materials is forecast to increase 4.9 percent annually to \$5.6 billion in 2018. Ceramic materials will grow the fastest based on improved nanotechnology compounds for orthopedic implants, spinal fixation devices and dental products. Natural polymers will be the second fastest growing segment, paced by hyaluronic acid. This study analyzes the \$4.4 billion US biocompatible materials industry, with forecasts for 2018 and 2023 by product and application. The study also evaluates company market share and profiles industry players.

#3223..... December 2014.....\$5200

World Medical Disposables

Global demand for medical disposables is forecast to rise 6.6 percent annually to \$245 billion in 2018. The Asia/Pacific region will remain the largest and fastest growing market. Products used to treat widely prevalent chronic conditions such as kidney failure, urinary incontinence and arthritis-related pain will grow the fastest. This study analyzes the \$178 billion world disposable medical supply industry, with forecasts for 2018 and 2023 by product, world region, and for 16 countries. The study also evaluates company market share and profiles industry competitors.

#3205..... September 2014.....\$6400

Infection Prevention Products & Services

US demand for infection prevention products and services will expand 4.8 percent annually to \$24.6 billion in 2018. Safety enhanced medical devices and infectious waste disposal items will be the fastest growing supplies, while protective apparel and textiles remain the largest segment. Infection prevention services will outpace both supplies and equipment. This study analyzes the \$19.5 billion US infection prevention industry, with forecasts for 2018 and 2023 by type and market. The study also evaluates company market share and profiles industry players.

#3162..... May 2014.....\$5200

Home Medical Equipment

US demand for home medical equipment will increase 8.2 percent annually to \$12.6 billion in 2018, driven by technological advances and cost containment efforts. Remote monitoring and real-time systems based on telemedicine technology will be the fastest growing type. Home therapeutic equipment will remain the largest segment, with growth led by dialysis machinery. This study analyzes the \$8.5 billion US home medical equipment industry, with forecasts for 2018 and 2023 by product. The study also evaluates company market share and profiles industry players.

#3141..... March 2014.....\$5100

Disposable Medical Supplies

US demand for disposable medical supplies is forecast to expand 4.1 percent annually to \$49.3 billion in 2018. Drug delivery and related products will remain the fastest growing and largest single category. Among other supplies, safety enhanced devices and infection resistant nonwovens will see the most rapid growth. This study analyzes the \$40.3 billion US disposable medical supplies industry, with forecasts for 2018 and 2023 by raw material, product and market. The study also evaluates company market share and profiles industry players.

#3111..... February 2014.....\$5300

About The Freedonia Group

The Freedonia Group, Inc., is a leading international industry market research company that provides its clients with information and analysis needed to make informed strategic decisions for their businesses. Studies help clients identify business opportunities, develop strategies, make investment decisions and evaluate opportunities and threats. Freedonia research is designed to deliver unbiased views and reliable outlooks to assist clients in making the right decisions. Freedonia capitalizes on the resources of its proprietary in-house research team of experienced economists, professional analysts, industry researchers and editorial groups. Freedonia covers a diverse group of industries throughout the United States and other world markets. Industries analyzed by Freedonia include:

- Automotive & Transport • Chemicals • Construction & Building Products • Consumer Goods • Energy & Petroleum • Industrial Components • Healthcare & Life Sciences • Machinery & Equipment • Metals, Minerals & Glass • Packaging • Plastics & Other Polymers • Security • Services • Textiles & Nonwovens • Water Treatment

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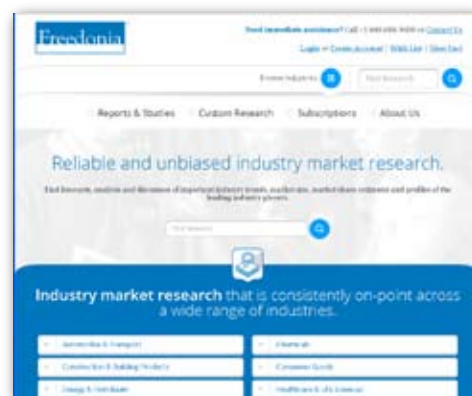
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