Medical Robotic Systems Market Analysis by Product and Segment Forecasts to 2020

Description: Medical Robotic Systems Market Analysis By Product (Surgical, Orthopedic, Laparoscopy, Neurological, Rehabilitation, Assistive, Prosthetics, Orthotics, Steerable, Therapeutic, Exoskeleton, Non-Invasive, Hospital/Pharmacy, Telemedicine, I.V, Pharmacy, Emergency Response Robotic Systems) And Segment Forecasts To 2020

The global market for medical robotic systems is expected to reach USD 17,901.5 million by 2020, growing at an estimated CAGR of 12.7% from 2014 to 2020. Growing market penetration for healthcare IT is one of the most significant growth drivers for this market. In addition, introduction of advanced technologies such as capsule robot system, software/applications and imaging system, increasing geriatric population base and increasing per capita healthcare expenditure are also expected to boost market growth during the forecast period. Growing geriatric population base is expected to increase the demand for minimally invasive robotic surgeries owing to the fact that old age increases the susceptibility towards disorders such as orthopedics, neurological and others. Presence of untapped growth opportunities in emerging countries such as India, Brazil and China is expected to serve this market as a future growth opportunity.

Surgical robots dominated the overall market in terms of shares at over 65.0% in 2013 majorly owing to their high usage and market penetration rates and the presence of a relatively larger number of R&D programs aimed at new product development. However, the hospital and pharmacy robots are expected to be the fastest growing market segment, at a CAGR of over 16.0% from 2014 to 2020 due to increasing demand for population based therapeutic solutions and increasing demand for telemedicine robots.

Further key findings from the study suggest:

- Laparoscopy is one of the largest application segments of this market and accounted for a share of over 35.0% in 2013. Growing demand for minimally invasive surgeries and the introduction of advanced robotic systems such as Da Vinci Robotic Surgery Systems are some of the factors accounting for its large share.
- Neurology is one of the fastest growing application segments and is estimated to grow at a CAGR over 15.0% during the forecast period owing to increasing prevalence of neurological disorders such as strokes, neurodegenerative disorders, epilepsy, chronic migraine and others and growing physician adoption rates of innovative technologies.
- North America was the largest regional market in 2013 and accounted for over 48.0% of global demand. Presence of sophisticated healthcare infrastructure, high patient awareness levels, healthcare expenditure and market penetration rates of healthcare IT are some of the drivers of this market.
- Asia Pacific is expected to be the fastest regional market, at an estimated CAGR of over 15.0% from 2014 to 2020. Rise in healthcare investment, growing patient awareness and disposable income levels, rapid development in rural healthcare services and the presence of high unmet medical needs are some of the factors attributing to the rapid growth for medical robotics in the region.

For the purpose of this study, the report has segmented the medical robotic systems market on the basis of product, application and region:

Medical Robotic Systems Product Outlook
- Surgical Robots
  - Orthopedic Surgical Robots
  - Neurosurgical Robotic Systems
  - Laparoscopy Robotic Systems
  - Steerable Robotic Catheters:
- Rehabilitation Robots
- Assistive Robots
- Prosthetics
- Orthotics
Therapeutic Robots
- Exoskeleton Robotic Systems
- Noninvasive Radiosurgery Robots
- TrueBeam STx Radiosurgery System
- CyberKnife Robotic Radiosurgery System
- Gamma Knife Perfexion Radiosurgery System
- Hospital and Pharmacy Robots
- Telemedicine Robots
- I.V. Robots
- Pharmacy Robots
- Cart transportation robots
- Emergency Response Robots
- LS-1 Robotic System
- Auto Pulse Plus Robotic System

Medical Robotic Systems Application Outlook
- Neurology
  - Pathfinder Surgical System
  - Neuromate Surgical System
  - Renaissance Surgical System
- Orthopedics
  - iBlock Surgical System
  - Robodoc Surgical System
  - Navio PFS Surgical System
  - MAKO RIO Surgical System
  - Stanmore Sculptor Surgical System
- Laparoscopy
  - FreeHand Endoscope Holder System
  - Da Vinci Robotic Surgery System
  - Telelap ALF-X Surgical System
- Special Education

Medical Robotic Systems Regional Outlook
- North America
- Europe
- Asia Pacific
- RoW

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