Medical Robotic Systems Market Size, Market Share, Application Analysis, Regional Outlook, Growth Trends, Competitive Scenario And Forecasts, 2012 To 2020

Description: Industry Insights

Rising penetration of automated or computerized surgical technologies such as nanorobots or telemedicine or bacteriobots for treating fatal diseases such as cancer is expected to boost market growth in coming six years. Other drivers of medical robotic systems market are advancement in technologies such as software or applications, capsule robot system, and imaging technology and increasing geriatric population as old age is considered as the highest risk factor for the development of disorders related to neurological, orthopedics and others.

The medical robotic systems are an evolving field which is designed to work with CT scan, MRI, ultrasound imaging and fluoroscopy. Introduction of technological advancements on the ground of dexterity, stability and precision is expected to serve medical robotic systems market as a high impact rendering driver. Other technological advances in the medical robotic systems include incorporation of magnetic resonance imaging and 3D ultrasound to facilitate real-time imaging for efficient procedure planning and easy future reference. The growing use of da Vinci surgical system for complex surgeries using a minimally invasive approach is expected to serve this market as a driver by catering to users in healthcare facilities. The introduction of cheaper and smaller SPORT medical robotic systems by Titan Medical and growing market penetration rates of advanced technologies such as lightweight robotics for medical applications to assist in surgical operations is also likely to boost market growth during the forecast period. There are several opportunities for in-vivo robotics in the area of medicine that are commercialized and a new revolution is brought about in the medical field. Researchers are trying to develop nanorobots for treating cancer as well as for noninvasive surgeries at the cellular level on patients with tumors.

Segment Insights

Medical robotic systems segment market consists of non-invasive surgery robots, surgical robots, rehabilitation robots and hospital/pharmacy robots. Surgical robots dominated the overall market in 2013 owing to presence of an extensive portfolio of FDA and CE approved products coupled with high usage rates is one of the primary drivers of this market. The rapid growth in surgical robotics is driven by a combination of advancement in medical robotic systems imaging such as 3D ultrasound, higher resolution, magnetic resonance imaging and technological improvements like control theory and acceptance of both laparoscopic procedures and robotic assistance. Surgical medical robotic systems include laparoscopy systems, orthopedic surgical robots, steerable robotic catheters and neurological surgical systems.

Application Insight

Application segment of medical robotic systems market includes orthopedics, Neurology, laparoscopy and special education. Laparoscopy is considered as one of the largest segments with share over 35% in 2013 due to growing demand for minimally invasive surgeries. Laparoscopy helps in reducing pain which in turn reduces morbidity along with hospital stay duration of the patient in comparison with conventional open surgeries. Laparoscopic robotic systems perform a wide range of surgical procedures with an established efficiency which has resulted in increased number of surgical procedures performed with the use of these systems. Robotic-assisted laparoscopic surgery is a relatively new field of gynecologic surgery.

Regional Insights

North America dominated the overall medical robotic systems market in 2013 owing to presence of sophisticated healthcare infrastructure, high healthcare expenditure and patient awareness levels coupled with higher market penetration rates of healthcare IT system are some drivers of this market. Asia Pacific is considered as the fastest growing regional market in the coming six years on accounts of rising healthcare investment, rapid development in rural healthcare services disposable income levels and the presence of high unmet medical needs and are some factors attributing to the rapid growth for medical robotic systems.
market in this region. In addition, growing geriatric population base, changing lifestyle of people, increasing awareness about system and growth in number of hospitals are also responsible to accelerate growth rate in Asia Pacific countries.

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- Hansen Medical, Inc.
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- Health Robotics S.R.L
- Or Productivity Plc
- Intuitive Surgical Inc.
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