Abdominal Surgical Robots -- Markets Reach $15.8 Billion By 2023

LEXINGTON, Massachusetts (May 25, 2017) – WinterGreen Research announces that it has published a new study Abdominal Surgical Robots: Market Shares, Strategy, and Forecasts, Worldwide, 2017 to 2023. The 2017 study has 524 pages, 202 tables and figures. Worldwide Abdominal Surgical Robot markets are poised to achieve significant growth with increasing use of robots to replace open surgery. Visualization of the surgical site is improving, letting surgeons better control the surgical site. The robots are more accurate and steadier than the human open surgery.

The robotic approach to surgery is useful for the treatment of benign and malignant gynecologic as well as urologic and abdominal disease conditions. Challenges still exist on a systems level. Implementation of a robotic program have a long learning curve, resistance by surgeons on the team who are not adept at using the systems, quality of life, and financial challenges based on high capital expense, and organizational challenges.

Intuitive Surgical da Vinci System – The Gold Standard for Robotic Abdominal Surgery

Source: Intuitive Surgical

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This is being addressed as more surgeons are trained and gain experience in the market. The world market for abdominal surgical robots is at $2.9 billion in 2017. The Robotic surgery equipment industry revenue is projected to increase to $12.9 billion by 2022. Robotic surgery equipment continues to comprise a fast-growing segment of the medical device industry. Demand for the less invasive procedure is high among patients and doctors. The number of procedures and disposable instruments increases.

Existing open surgery is set to be replaced by robotic-assisted surgery. Young surgeons have steady hands, but even the greatest surgeons have off days and they age. As this happens, the advantages of the robot are evident because the hand is steady every time with the robot.

During a robot assisted surgical procedure, the patient-side cart is positioned next to the operating table with the electromechanical arms arranged to provide access to the initial ports selected by the surgeon.

Technologies for abdominal robotic surgery applications has had growing adoption and commercialization. These technologies work in solving surgical approaches to many gynecology, urology, and general surgical issues. Robotic surgical procedures have reached a level of market acceptance that proves their value. Market saturation is a distance away, the industry is still in its infancy.

The technology available is becoming more sophisticated in order to overcome hurdles. The objectives of overcoming the limitations of fixed port access, limited dexterity, and limited visualization remain. The industry leader, the only company with a commercial footprint, within the robotic surgical market is Intuitive Surgical, Inc. (NASDAQ: ISRG), maker of the da Vinci® Surgical System.

According to Susan Eustis, lead author of the team that prepared the study, “Growing acceptance of minimally invasive surgery and robotic surgery is because the robotic surgery provides an improvement over current surgical techniques. Open surgery is a difficult thing. Demand for less invasive procedures is coming as patients realize the benefits of quality of care from robotic surgery. Patients feel better after robotic surgery and the surgeries are more likely to be successful.”

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The worldwide market for abdominal surgical robots at $2.7 billion in 2016 grows to $15.8 billion by 2023. The complete report provides a comprehensive analysis of abdominal surgical robots in different categories, illustrating the diversity of uses for devices in surgery. A complete procedure analysis is done, looking at numbers of procedures and doing penetration analysis.

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Key Words: Abdominal Surgical Robotics, Medical Devices, Healthcare Robotics, Enabling Technology, Robotic-Assisted Minimally Invasive Surgery, Robotic Surgical System, Medical / Surgical Delivery Robots, Surgical Assistive Technology, Hospital Robots, Robotic Surgery Equipment, Surgical Robot Applications, Next Generation Robotic Surgery, Flexible Robot Platform, Minimally Invasive Surgery, MIS.

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