Global Hernia Mesh Market Size to Grow at 2.8% CAGR, Reaching USD 6.47 Billion by 2030

The global hernia mesh market size was USD 5.02 Billion in 2021 and register a revenue CAGR of 2.8% during the forecast period.

Reports And Data

NEW YORK, NY, UNITED STATES, May 3, 2023 /EINPresswire.com/ -- The Global Hernia Mesh Market is projected to grow with a revenue CAGR of 2.8% during the forecast period, with a market size of USD 5.02 billion in 2021. Factors such as the increasing prevalence of hernia, growing geriatric population, rising cases of obesity, and rapid adoption of alternative lifestyles are driving market revenue growth. Meshes are increasingly used in surgical procedures due to factors such as reduced discomfort, cost-effectiveness, product availability, and decreased operating time. Innovations in technology and the launch of new items are also contributing to revenue growth of the market. Hernia mesh, made up of animal and synthetic components, is a medical device designed to provide extra support for weakened or injured tissues.

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Mesh repair is generally acknowledged to be better than basic suture repair in most countries, with tensile strength and porosity being factors that influence mesh weight and biocompatibility. The U.S. Food and Drug Administration (FDA) states that utilizing hernia mesh may improve a patient's results after surgery and reduce recovery time compared to other therapy options. According to the American College of Surgeons (ACS), approximately 90,000 Americans undergo hernia repair procedures each year. During the procedure, a synthetic or animal-based surgical mesh repair is sewn over the weakened portion of the abdominal wall to provide support or prevent it from rupturing again. The vast majority of hernia cases are treated and discharged without the need for hernia repair surgery, accounting for around 10% of all emergency department visits annually.

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Surgical mesh patches are the most effective option for hernia repair when surgery is necessary. This type of patch involves the use of synthetic or animal-based mesh, which is sewn in place to provide support and prevent recurrence. The use of surgical mesh has been shown to reduce the incidence of hernia recurrence by up to 50%, with some studies reporting recurrence rates as low as 5%.

Hernias can occur at any age, including in infants during their first few months of life, due to a weakness in the abdominal muscles. The majority of inguinal hernias, which occur in the groin area, affect males. Epigastric hernias, a common type of hernia in which part of the intestine protrudes through the abdominal wall, are prevalent in up to 10% of the population but only a fraction of people experience symptoms.

Advanced hernia surgical mesh devices have been developed by medical device manufacturers in recent decades, and they have proven helpful for hernia treatments. For intestinal blockage caused by a hernia, clinicians often recommend surgery to correct the hernia and stimulate tissue development. Epigastric hernias, which are two to three times more common in men, are repaired surgically in approximately 1.6 to 3.6% of all abdominal hernias and 0.5 to 5% of all abdomen hernias. The attachment of the diaphragm that causes additional stress in the epigastric area remains, and the condition typically peaks between the ages of 20 and 50.

Segments Covered in the Report

The hernia mesh market can be categorized by hernia type, mesh type, synthetic structure type, and synthetic product type. The four main types of hernias are inguinal, incisional, femoral, and others. Inguinal hernias are the most common and affect mainly men. An incisional hernia occurs at the site of a previous surgery. Femoral hernias are more common in women and occur in the upper thigh area. Other hernias include umbilical and hiatal hernias.

The two main types of mesh used for hernia repair are biological and synthetic. Biological mesh is made from human or animal tissue and can be used in patients who cannot tolerate synthetic materials. Synthetic mesh is made from various materials, such as polypropylene or polyester, and is used more frequently than biological mesh. It has higher tensile strength and is less likely to cause an adverse reaction.

Synthetic mesh can be further categorized based on its structure type, either absorbable or non-absorbable. Absorbable mesh is designed to degrade over time and eventually be absorbed by the body. Non-absorbable mesh, on the other hand, remains in the body permanently. Mesh can also be classified based on its product type, such as flat mesh or 3D mesh. Flat mesh is a flat sheet of material that is placed over the hernia defect. 3D mesh is a more complex mesh that is

molded to fit the shape of the hernia defect, providing more support and a better fit.

The end-use outlook for hernia mesh includes ambulatory surgical centers, clinics, and hospitals. Ambulatory surgical centers are facilities that provide same-day surgical procedures, while clinics and hospitals offer more extensive medical services. These facilities all require hernia mesh for hernia repair surgeries. The demand for hernia mesh is expected to grow as the number of hernia cases increases, and more patients opt for surgical treatment options.

Strategic development:

Futura Surgicare Pvt. Ltd., a medical device manufacturer based in India, recently launched a new line of surgical meshes called Dolphin Mesh, which are designed for tension-free laparoscopic hernia repair procedures. The dual surgical meshes offer a wide range of benefits for patients undergoing hernia surgery.

Deep Blue Medical Advances received marketing approval from the FDA for their latest medical innovation, T-Line Hernia Mesh, on August 14, 2020. The 510(k) license granted to the Durham-based medical technology firm allows them to commercialize the hernia mesh, which has improved anchoring strength. This surgeon-created product can help prevent the recurrence of hernias following abdominal surgery.

Competitive Landscape:

The global hernia mesh market features a highly fragmented competitive landscape with the presence of several prominent players operating at both regional and global levels. These key players are primarily focused on product development and strategic alliances to enhance their product portfolios and expand their market presence worldwide. Some of the major companies operating in the market include Medical Device Business Services Inc., Stryker Corporation, Koninklijke DSM N.V., Medtronic plc, Becton, Dickinson and Company, W. L Gore & Associates Inc., B. Braun Melsungen AG, LifeCell International Pvt Ltd., Baxter International Inc., and Cook.

These companies are investing significantly in research and development activities to come up with innovative products that cater to the growing demand for hernia mesh devices. They are also adopting various strategic initiatives such as partnerships, collaborations, and mergers and acquisitions to strengthen their market position and expand their geographical reach. Furthermore, the market players are also focusing on improving their manufacturing capabilities to enhance their production capacity and efficiency.

Overall, the global hernia mesh market is highly competitive and dynamic, with intense competition among the key players. The companies are striving to enhance their product

offerings and maintain their market position by continuously investing in product development and expanding their distribution channels to reach a wider customer base.

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