

Hernia Mesh Devices Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Hernia Type (Inguinal Hernia, Incisional Hernia, Femoral Hernia), By Mesh Type (Biologic Mesh, Synthetic Mesh), By Region, By Competition Forecast & Opportunities, 2018-2028F

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Abstracts

In 2022, the Global Hernia Mesh Devices Market reached a valuation of USD4.03 billion, and it is expected to grow with a Compound Annual Growth Rate (CAGR) of 6.90% through 2028. The Global Hernia Mesh Devices Market stands out as a dynamic and rapidly expanding sector within the medical device industry. Hernias, which manifest when an organ or fatty tissue protrudes through a weakened spot in the abdominal wall, represent a common medical condition necessitating surgical intervention. Hernia mesh devices are deployed in hernia repair surgeries to provide support and reinforce the weakened abdominal wall.

Several key drivers propel this market's growth. These include the escalating prevalence of hernias due to factors such as aging populations and increasing rates of obesity. Furthermore, advancements in surgical techniques and materials have fostered the development of innovative hernia mesh devices that offer improved outcomes and shorter recovery periods for patients.

The market's trajectory is also influenced by the burgeoning awareness of the advantages associated with minimally invasive hernia repair procedures, which employ hernia mesh devices. Such procedures result in reduced post-operative pain, shorter hospital stays, and quicker resumption of normal activities. Nonetheless, the market confronts challenges, including concerns regarding the safety and effectiveness of



certain hernia mesh products, leading to legal actions and regulatory scrutiny. Ensuring the safety and quality of these devices remains a paramount concern for both manufacturers and regulatory bodies.

In summary, the Global Hernia Mesh Devices Market continues to expand to meet the surging demand for effective hernia repair solutions, driven by demographic trends and technological advancements in the realm of surgery.

Key Market Drivers

High incidence of hernia

The Global Hernia Mesh Devices Market is experiencing robust growth, primarily due to the high incidence of hernias on a global scale. Hernias, characterized by the protrusion of an organ or tissue through a weakened abdominal wall, have become increasingly prevalent, driving the demand for hernia mesh devices. One of the fundamental drivers of this market is the demographic shift towards an aging population. As the world's population continues to age, the risk of developing hernias increases. Elderly individuals often experience weakened abdominal muscles, making them more susceptible to hernias. This demographic trend has led to a substantial increase in the number of hernia cases, boosting the need for hernia mesh repair solutions. Furthermore, lifestyle factors, such as obesity and sedentary behavior, have contributed to the rising incidence of hernias. Obesity, in particular, places excessive strain on the abdominal wall, making individuals more prone to hernias. The global obesity epidemic has amplified the occurrence of hernias, particularly in regions with high obesity rates.

The adoption of unhealthy lifestyles, including poor dietary choices and lack of physical activity, has played a role in hernia development. These lifestyle factors have led to an increase in intra-abdominal pressure, further contributing to hernia formation. Consequently, individuals in both developed and developing countries are at an elevated risk of developing hernias. Moreover, the expanding prevalence of chronic cough conditions, such as chronic obstructive pulmonary disease (COPD) and persistent smokers' cough, has added to the burden of hernia cases. These chronic coughs exert continuous pressure on the abdominal wall, creating an environment conducive to hernia development. The global healthcare community has recognized the importance of timely hernia repair in improving patients' quality of life and preventing complications. This awareness, combined with the increasing incidence of hernias, has driven the demand for hernia mesh devices. Surgeons are increasingly opting for mesh-based hernia repair techniques due to their effectiveness in providing support and



reducing the risk of hernia recurrence.

However, it's important to note that while the high incidence of hernias drives market growth, it also underscores the significance of patient safety and product quality. As the demand for hernia mesh devices continues to rise, ensuring the safety and efficacy of these devices becomes paramount. Regulatory bodies and manufacturers are closely monitoring product quality and patient outcomes to maintain the integrity of the global hernia mesh devices market. Therefore, the high incidence of hernias, driven by demographic shifts, lifestyle factors, and the prevalence of chronic conditions, has fueled the global hernia mesh devices market's growth. This market expansion reflects the increasing demand for effective hernia repair solutions to enhance patients' well-being and address the rising burden of hernia-related healthcare concerns worldwide.

Technological advancements

Technological advancements have been a driving force behind the growth and evolution of the Global Hernia Mesh Devices Market. These advancements have significantly improved the safety, efficacy, and outcomes of hernia repair surgeries, making them more appealing to both surgeons and patients. One of the key technological advancements in hernia mesh devices is the development of innovative materials. Traditional hernia repairs often used synthetic mesh materials, which had limitations such as a higher risk of complications and discomfort. However, the introduction of newer, bio-compatible materials has transformed hernia repair. These materials, including bio-absorbable meshes and composite meshes, integrate more effectively with the patient's tissues, reducing the risk of complications and improving patient comfort.

Advancements in mesh design have also been instrumental in enhancing the performance of hernia mesh devices. Three-dimensional meshes with unique structures and configurations provide better support to the weakened abdominal wall and reduce the risk of mesh migration or complications. Additionally, the incorporation of antiadhesion barriers within the mesh design helps prevent the formation of scar tissue and adhesions, which can be painful and lead to recurrent hernias. Surgical techniques have also evolved with the aid of technology. Minimally invasive procedures, such as laparoscopic and robotic-assisted hernia repairs, have gained popularity due to reduced post-operative pain, shorter recovery times, and improved cosmetic outcomes. These techniques rely on advanced imaging and surgical instruments that allow for precise placement of hernia mesh devices. Surgeons can navigate with greater accuracy and perform complex procedures through smaller incisions, reducing the trauma to surrounding tissues.



Real-time imaging and navigation systems have become invaluable tools during hernia repair surgeries. Surgeons can visualize the hernia defect, surrounding structures, and the placement of the mesh with exceptional clarity. This technology ensures precise positioning of the mesh and minimizes the risk of complications. Furthermore, the integration of biologics and regenerative medicine into hernia repair has opened new avenues for tissue repair and healing. Bioactive coatings and growth factors incorporated into mesh materials promote tissue regeneration and reduce inflammation, further enhancing patient outcomes. The advent of 3D printing technology has allowed for the customization of hernia mesh devices based on a patient's specific anatomy. Personalized meshes fit more securely, reduce the risk of complications, and improve patient comfort. As the healthcare industry continues to embrace digitalization, electronic health records (EHRs) and telemedicine platforms enable seamless communication between healthcare providers, streamlining patient care and follow-up after hernia repair surgeries.

Overall, technological advancements have revolutionized the field of hernia mesh devices. Innovations in materials, mesh design, surgical techniques, real-time imaging, biologics, and digitalization have collectively enhanced the safety, efficacy, and patient experience in hernia repair. These advancements continue to drive the global hernia mesh devices market by offering surgeons and patients more effective and minimally invasive options for hernia treatment.

Improved patient outcomes by using meshes.

The Global Hernia Mesh Devices Market is experiencing significant growth, and one of the primary drivers behind this expansion is the substantial improvement in patient outcomes achieved through the use of meshes in hernia repair procedures. Historically, hernia repair surgeries often resulted in high rates of recurrence and post-operative complications. However, the introduction of hernia mesh devices has transformed the landscape of hernia treatment by providing substantial benefits to patients. One of the fundamental ways in which meshes enhance patient outcomes is by providing robust support to the weakened abdominal wall. In hernia repair surgeries, these devices are strategically placed over the hernia defect to reinforce the abdominal muscles and prevent the protrusion of organs or tissues. This support significantly reduces the risk of hernia recurrence, a problem that plagued traditional hernia repair techniques. Patients who undergo mesh-based hernia repairs experience lower rates of hernia recurrence, translating into improved long-term outcomes and reduced healthcare costs associated with revision surgeries. Meshes also contribute to shorter recovery times and reduced



post-operative pain. Traditional hernia repairs often involve extensive tissue dissection and suturing, resulting in significant discomfort and a more extended recovery period. Mesh-based procedures, on the other hand, are often minimally invasive, allowing for smaller incisions and less tissue trauma. This minimizes post-operative pain and accelerates the patient's return to normal activities, improving their overall quality of life.

Furthermore, the use of biocompatible and bio-absorbable mesh materials has led to improved patient comfort. These materials integrate seamlessly with the patient's tissues and gradually dissolve over time, reducing the risk of discomfort or foreign body sensation. Patients experience fewer complications related to mesh materials, such as infections or allergic reactions. Meshes also play a crucial role in preventing complications such as mesh migration and adhesions. Mesh migration occurs when the mesh shifts from its original placement, potentially causing discomfort and complications. Adhesions, on the other hand, are the formation of scar tissue between the mesh and surrounding organs, which can lead to pain and bowel obstructions. Modern mesh designs incorporate features to minimize these issues, ensuring better patient outcomes. Innovations in mesh design have further improved patient outcomes. Three-dimensional meshes with unique structures provide enhanced support to the abdominal wall, reducing the risk of complications. Meshes with anti-adhesion barriers prevent the formation of scar tissue, enhancing patient comfort.

The use of biologics and regenerative medicine in conjunction with meshes promotes tissue regeneration and reduces inflammation, fostering improved healing and reducing complications. Overall, the improved patient outcomes associated with the use of meshes in hernia repair surgeries have led to increased patient satisfaction and better long-term results. As a result, patients and healthcare providers are increasingly choosing mesh-based procedures, driving the growth of the global hernia mesh devices market. The combination of reduced recurrence rates, shorter recovery times, enhanced comfort, and fewer complications makes hernia mesh devices a vital component of modern hernia treatment and contributes significantly to the market's expansion.

Advancements in Surgical Techniques

Advancements in surgical techniques have played a pivotal role in driving the growth of the Global Hernia Mesh Devices Market. Hernias, which occur when organs or tissues protrude through weakened muscles, have historically been repaired using traditional open surgery. However, over the years, significant innovations in surgical approaches have revolutionized the treatment of hernias, with minimally invasive techniques and robotic-assisted surgeries taking center stage. One of the most influential



advancements in hernia repair has been the development of minimally invasive techniques, such as laparoscopic surgery. Unlike traditional open surgeries that involve large incisions and extensive tissue dissection, laparoscopic hernia repair relies on several small incisions and the use of specialized instruments. Surgeons insert a tiny camera called a laparoscope into one incision, allowing them to view the hernia site in detail on a monitor. This minimally invasive approach offers several advantages. First, it significantly reduces post-operative pain and discomfort for patients. Smaller incisions mean less trauma to surrounding tissues, resulting in quicker recovery times and a faster return to normal activities. Patients experience less pain, require fewer pain medications, and generally report higher levels of satisfaction with the procedure. Second, minimally invasive techniques result in improved cosmetic outcomes. Smaller incisions leave minimal scarring, which is especially appealing to patients concerned about the aesthetics of their surgical scars.

Moreover, the reduced risk of complications associated with minimally invasive techniques has contributed to their widespread adoption. These techniques have been shown to have lower rates of surgical site infections, wound complications, and post-operative hernia recurrence compared to open surgery. Robotic-assisted surgery is another significant advancement that has impacted the hernia repair landscape. The use of robotic systems allows for even greater precision and control during surgery. Surgeons can manipulate robotic arms to perform intricate tasks with exceptional accuracy. This level of precision is particularly beneficial in complex hernia cases, where the anatomy can be challenging to navigate.

Additionally, robotic-assisted surgery provides a three-dimensional view of the surgical field, enhancing visualization and reducing the risk of inadvertent damage to nearby structures. Surgeons can more precisely position hernia mesh devices, reducing the likelihood of complications. The adoption of minimally invasive and robotic-assisted techniques has been facilitated by extensive training programs and educational resources for surgeons. This has resulted in a growing number of healthcare providers who are proficient in these advanced approaches. Therefore, advancements in surgical techniques, particularly minimally invasive and robotic-assisted procedures, have transformed the landscape of hernia repair. These techniques offer numerous benefits to patients, including reduced pain, quicker recovery, improved cosmetic outcomes, and lower complication rates. As a result, patients and surgeons alike are increasingly choosing these approaches, driving the demand for hernia mesh devices and contributing to the growth of the global hernia mesh devices market. The continued evolution of surgical techniques is expected to further shape the future of hernia repair.



Key Market Challenges

High cost of Hernia Mesh Devices

The high cost of hernia mesh devices poses a significant challenge to the Global Hernia Mesh Devices Market. While these devices offer numerous advantages in hernia repair, their expense can be a deterrent for both healthcare providers and patients. Here, we explore how the high cost of hernia mesh devices becomes a challenge for the market. One of the primary challenges is the financial burden placed on healthcare systems and institutions. Hernia mesh devices are often more expensive than traditional suture-based repairs. This increased cost can strain healthcare budgets, especially in regions with limited resources, leading to potential disparities in access to advanced hernia treatments. Insurance coverage and reimbursement policies can vary widely, affecting patients' ability to access hernia mesh procedures. In some cases, insurance plans may not fully cover the cost of hernia mesh devices, leaving patients responsible for a substantial portion of the expense. This financial barrier can lead to delayed or deferred hernia repairs.

High deductibles, co-payments, and out-of-pocket expenses for patients can make hernia mesh repair unaffordable for some individuals. This can lead to patients opting for less expensive but potentially less effective alternatives, such as suture-based repairs or watchful waiting, despite the potential for higher recurrence rates and complications. The cost of hernia mesh devices can exacerbate healthcare disparities, with patients in underserved or economically disadvantaged communities facing greater challenges in accessing advanced hernia repair procedures. This can result in disparities in healthcare outcomes and outcomes for patients of different socioeconomic backgrounds. In regions with limited healthcare infrastructure and resources, the high cost of hernia mesh devices can pose a substantial barrier to adoption. Healthcare facilities may struggle to allocate resources for the purchase of expensive medical devices, limiting their availability to patients. Surgeons and healthcare providers may also consider the economic implications of using hernia mesh devices. The initial investment in these devices, coupled with ongoing maintenance costs and the need for specialized training, can impact a surgeon's decision to adopt these techniques. The competitive landscape of hernia mesh devices can lead to pricing pressure. Manufacturers may engage in pricing wars to gain market share, potentially reducing profit margins and affecting the sustainability of the market.

To address these challenges, there is a need for greater transparency in pricing, improved insurance coverage, and reimbursement policies that ensure equitable access



to hernia mesh procedures. Additionally, ongoing research and development efforts aimed at creating more cost-effective hernia mesh solutions can help mitigate some of the financial challenges associated with these devices. Therefore, the high cost of hernia mesh devices presents challenges for the market by affecting healthcare budgets, patient access, healthcare disparities, and economic considerations for healthcare providers. Addressing these challenges requires a multifaceted approach that considers affordability, insurance coverage, and market dynamics to ensure that patients receive the benefits of advanced hernia repair techniques while minimizing financial barriers.

lack of skilled professionals

The lack of skilled professionals represents a substantial challenge for the Global Hernia Mesh Devices Market. While these devices offer innovative solutions for hernia repair, their effective use depends significantly on well-trained surgeons and healthcare providers. Here, we delve into how the shortage of skilled professionals becomes a multifaceted challenge for the market: Skilled professionals are essential for the successful implementation of advanced hernia repair techniques, particularly those involving hernia mesh devices. These surgeons possess the expertise needed to navigate complex surgeries and address potential complications. In regions or healthcare settings where such professionals are scarce, patients may have limited access to advanced procedures, potentially resulting in delayed or suboptimal treatments. The shortage of skilled professionals can directly impact surgical outcomes. Hernia repair surgeries, especially those incorporating mesh devices, demand precision, experience, and meticulous technique. Inexperienced or inadequately trained surgeons may face higher rates of complications, such as surgical site infections, hernia recurrence, and other adverse events. These unfavorable outcomes can undermine patient confidence in advanced hernia repair methods. Inadequate training and skills can raise safety concerns during hernia mesh procedures. Errors or incorrect techniques can lead to patient harm, including injuries, tissue damage, and devicerelated complications. Such safety concerns can deter both patients and healthcare providers from pursuing advanced hernia repair options, contributing to the underutilization of these devices.

Surgeons with limited training or experience in hernia mesh procedures may lack confidence in their ability to perform these complex surgeries effectively. This lack of confidence can result in hesitancy when recommending hernia mesh repair to patients, even when it may be the most appropriate option. It can also hinder a surgeon's ability to address unexpected complications during surgery. The shortage of skilled



professional's places strain on healthcare systems and institutions. Hospitals and medical facilities may struggle to meet the demand for advanced hernia repair procedures due to a limited pool of qualified surgeons. This can lead to extended waiting times for patients in need of timely surgery, potentially exacerbating their conditions. Addressing the shortage of skilled professionals necessitates comprehensive training and education programs. Developing and implementing such programs can be resource-intensive and time-consuming. Furthermore, continuous education and skill maintenance are crucial to ensure that professionals remain current with the latest techniques and devices, requiring ongoing investment and commitment.

Skilled professionals are often concentrated in urban or well-established healthcare centers, resulting in geographic disparities in access to advanced hernia repair options. Patients residing in rural or underserved areas may encounter greater challenges in locating experienced surgeons capable of performing these procedures. To mitigate the challenge of a shortage of skilled professionals, concerted efforts are needed. This includes expanding training programs, promoting continuing medical education, and incentivizing healthcare professionals to specialize in hernia repair techniques. Collaboration between healthcare organizations and educational institutions can be instrumental in closing the skills gap, ensuring that patients have access to well-trained professionals capable of safely and effectively utilizing hernia mesh devices.

Key Market Trends

Minimally Invasive Procedures

Minimally invasive procedures have emerged as a prominent trend in the Global Hernia Mesh Devices Market, revolutionizing the field of hernia repair. This trend is characterized by the increasing preference for minimally invasive surgical techniques, such as laparoscopic and robotic-assisted procedures, over traditional open surgeries. Here's an in-depth exploration of how minimally invasive procedures are shaping the hernia mesh devices market: Minimally invasive approaches offer several advantages over traditional open surgeries, including reduced postoperative pain, shorter hospital stays, and faster recovery times. Patients undergoing minimally invasive hernia repair often experience less discomfort, which contributes to higher patient satisfaction and improved quality of life during the recovery period. Minimally invasive procedures result in smaller incisions and, consequently, less visible scarring. This cosmetic benefit is particularly appealing to patients, as it addresses concerns about the aesthetic impact of surgery. The reduced scarring can boost patient confidence and overall satisfaction with the procedure.



Minimally invasive techniques are associated with a lower risk of complications such as surgical site infections, wound dehiscence, and hernia recurrence. The use of hernia mesh devices in laparoscopic or robotic procedures aids in reinforcing weakened abdominal walls more effectively, reducing the likelihood of hernia recurrence. Surgeons performing minimally invasive hernia repair benefit from enhanced visualization and precision. High-definition cameras and specialized instruments provide detailed views of the surgical site, allowing surgeons to navigate complex anatomy with precision. This results in more accurate mesh placement and better outcomes. Minimally invasive procedures are generally associated with shorter operative times compared to open surgeries. This efficiency can lead to reduced healthcare costs and enhanced surgical throughput, allowing more patients to access timely hernia repair.

Surgeons are increasingly becoming proficient in minimally invasive techniques for hernia repair. This growing expertise is a critical driver of the trend, as patients and referring physicians seek out experienced surgeons who can provide the benefits of minimally invasive procedures. Minimally invasive hernia repair techniques are now being applied to a broader range of hernia types, including inguinal, ventral, and incisional hernias. This expansion of indications broadens the potential patient population benefiting from minimally invasive approaches. Hernia mesh devices tailored for minimally invasive procedures are continuously evolving. These devices are designed to facilitate laparoscopic or robotic placement, ensuring optimal positioning and fixation within the abdominal wall. Patients are increasingly informed about treatment options and often express a preference for minimally invasive approaches due to the perceived benefits. This patient demand contributes to the adoption of these procedures. As minimally invasive techniques continue to gain momentum in the hernia repair landscape, the hernia mesh devices market is poised for growth. These procedures offer not only clinical advantages but also improved patient satisfaction and cosmetic outcomes, driving their increased utilization in hernia treatment.

Telemedicine and Remote Monitoring

Telemedicine and remote monitoring are emerging as significant trends in the Global Hernia Mesh Devices Market, transforming the way patients receive postoperative care and healthcare providers manage hernia surgery outcomes. These trends reflect the growing integration of telehealth technologies into the field of hernia repair. Here's an indepth exploration of how telemedicine and remote monitoring are shaping the hernia mesh devices market. Telemedicine allows healthcare providers to conduct postoperative follow-up consultations with patients remotely. Instead of requiring



patients to visit the clinic in person, which may be challenging for those recovering from surgery, telehealth platforms enable virtual check-ins. This convenience improves patient compliance with follow-up appointments, ensuring that surgeons can monitor recovery progress and address any concerns promptly. Patients can access consultations with healthcare providers from the comfort of their homes using telemedicine platforms. This is particularly advantageous for patients in rural or underserved areas who may face geographical barriers to in-person care. Telehealth consultations ensure that patients receive timely guidance and reassurance from their surgeons without the need for travel.

Remote monitoring devices and applications enable patients to capture images of their surgical site and share them with healthcare providers. This visual feedback helps surgeons assess wound healing, identify signs of infection or complications, and make informed decisions about ongoing care. It enhances patient engagement and self-management of recovery. Telemedicine reduces the need for in-person appointments, leading to potential cost savings for both patients and healthcare systems. It minimizes travel expenses, time away from work, and administrative overhead associated with in-person visits. Patients are more likely to adhere to their postoperative care plans when telehealth options are available.

Remote monitoring allows for early detection of complications or issues related to hernia surgery. Surgeons can intervene promptly if they notice any concerning developments, preventing the escalation of problems and the need for more extensive interventions. Telehealth platforms enhance the convenience of healthcare interactions. Patients appreciate the flexibility of scheduling virtual consultations at their convenience, which can lead to greater patient satisfaction and engagement in their recovery. The COVID-19 pandemic accelerated the adoption of telemedicine across healthcare specialties, including hernia surgery. It highlighted the importance of having telehealth options in place to ensure continued patient care during crises or disruptions. Telemedicine platforms are increasingly integrated with electronic health records (EHRs), streamlining the exchange of patient information and ensuring that healthcare providers have access to a patient's complete medical history during virtual consultations.

Wearable and home monitoring devices enable patients to track vital signs, activity levels, and other health metrics remotely. This data can be shared with healthcare providers for real-time assessment, allowing for personalized and data-driven care. Telemedicine platforms provide opportunities for patient education, enabling healthcare providers to share information, instructions, and resources with patients digitally.



Informed patients are better equipped to manage their recovery effectively. The integration of telemedicine and remote monitoring into hernia surgery care pathways enhances patient engagement, accessibility, and convenience while facilitating timely intervention and cost-effective care delivery. These trends are expected to continue shaping the hernia mesh devices market, especially as healthcare systems prioritize digital health solutions and patient-centered care.

Segmental Insights

Hernia Type Insights

In 2022, the inguinal hernia segment emerged as the dominant force in the hernia mesh devices market, claiming a substantial revenue share of over 63%. This dominance can be attributed to the sheer prevalence of inguinal hernias, which constitute nearly 80% of all hernia cases. Moreover, the fact that inguinal hernias are ten times more common in men than in women underscores the necessity for hernia repair procedures, further bolstering this segment's prominence. Additionally, tension-free procedures and reduced complications associated with modern operative techniques make inguinal hernia repair a preferred choice among patients.

On the other hand, the femoral hernia segment is expected to hold a noteworthy market share in 2022. Femoral hernias are more prevalent in women, particularly older women, primarily due to the wider shape of the female pelvis. In contrast, femoral hernias are rare among children. When compared to the widespread occurrence of inguinal hernias, femoral hernias represent a distinct and less common category within the hernia landscape.

Mesh Type Insights

The biologic mesh segment is poised to be the fastest growing in the forecast period. While biologic meshes are relatively more expensive than synthetic counterparts, their preference is growing due to their ability to address issues like inflammation and foreign body reactions associated with synthetic meshes. Furthermore, technological advancements are expected to further drive the growth of the biologic mesh market in the coming years.

In contrast, the synthetic mesh segment dominated in 2022, capturing the largest revenue share. This was primarily due to the easy availability of materials and the cost-effectiveness of synthetic mesh products. The introduction of new products, coupled



with their widespread availability and affordability, played a significant role in establishing synthetic meshes as the market leaders in terms of mesh device sales. For instance, in September 2020, Surgical Innovation Associates received CE Mark approval for DuraSorb, an absorbable mesh that offers scaffolding and mechanical support. This innovation provides an alternative to permanent synthetic or biologic meshes, catering to a broader patient base. Moreover, synthetic meshes are economically viable for the majority of patients and are considered a favorable alternative to biologic meshes, offering fewer postsurgical complications.

Regional Insi



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