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Dura Substitutes Market Size, Share & Trends Analysis Report By Type (Biological Dura Substitutes, Synthetic Dura Substitutes), By Region (North America, Europe, APAC, Latin America, Middle East And Africa), And Segment Forecasts, 2025 - 2030

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Abstracts

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Dura Substitutes Market Growth & Trends

The global dura substitutes market size is anticipated treach USD 287.68 million by 2030 and is projected tgrow at a CAGR of 3.63% over the forecast period, according ta new report by Grand View Research, Inc. The dura substitute industry is experiencing significant growth due tthe increasing prevalence of neurosurgical disorders worldwide. According tan article published by the World Federation of Neurology in October 2023, a recent Global Burden of Disease (GBD) study reveals that neurological disorders are the second leading cause of death and the primary cause of disability globally. Currently, over 40% of the population is affected by these conditions, with projections indicating this prevalence can almost double by 2050.

Moreover, the global aging population, rising incidence of traumatic brain injuries, and central nervous system tumors requiring surgical interventions are driving demand for these products. According tthe United Nations, in January 2023, the global geriatric population aged 65 years and above is expected tincrease from 761 million in 2021 tapproximately 1.6 billion in 2050. This elderly population is more vulnerable tneurological disorders, which can increase the demand for neurological procedures. In addition, advancements in neurosurgical techniques, including minimally invasive procedures, have increased the need for biocompatible and effective dura substitutes.

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Moreover, the adoption of synthetic dura substitutes is gaining traction due ttheir superior properties compared ttraditional autologous grafts. Synthetic substitutes, such as those made from expanded polytetrafluoroethylene (ePTFE) or silicone, offer consistent quality, reduced operative time, and minimized donor-site morbidity. Meanwhile, biological substitutes derived from bovine or porcine sources are preferred in cases requiring high biocompatibility and reduced immune response. The combination of expanding clinical applications and an increasing focus on patient safety is significantly driving the market for these advanced materials, enabling better acceptance in both developed and emerging economies.

Regulatory approvals and favorable reimbursement policies are alspositively contributing tmarket growth. Agencies such as the FDA and European CE are recognizing dura substitutes, ensuring their safety and efficacy for a broad range of neurosurgical applications. Moreover, growing awareness among healthcare providers regarding the benefits of these substitutes, including reduced postoperative complications and faster recovery times, has further increased their adoption in hospitals and specialized surgical centers, which is further expected tdrive the market growth over the forecast period.

Dura Substitutes Market Report Highlights

Based on type, the biological dura substitutes segment dominated the industry with the largest revenue share owing tits several advantages, such as its biodegradable nature and ability teffectively integrate with native tissues.

North America held the largest market share of 32.89% in 2024. This can be attributed tincreasing awareness about post-surgical healing, developed healthcare infrastructure, presence of key market players, and access tadvanced dura substitute solutions.

Market players operating in dura substitutes market include Medtronic; B. Braun SE; Stryker; DePuy Synthes (Johnson & Johnson); W. L. Gore & Associates, Inc.; Acera Surgical Inc.; Severn Healthcare Technologies Limited.; INTEGRA LIFESCIENCES; GUNZE LIMITED.

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CHAPTER 6. COMPETITIVE LANDSCAPE

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