

# **U.S. Dural Sealants And Fibrin Glues Market Size, Share & Trends Analysis Report By CPT Procedure Code (61510 / 61512, 61320 - 61323, 61518, 62140 / 62141, 63707, 63709, 63710), By End Use, And Segment Forecasts, 2025 - 2035**

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## **Abstracts**

The U.S. dural sealants and fibrin glues market size was valued at USD 6.57 billion in 2024 and is expected to reach USD 10.99 billion by 2035, growing at a CAGR of 4.78% from 2025 to 2035. Growth is driven by increasing neurosurgical and spinal procedure volumes, particularly complex cranial, posterior fossa, and spinal duraplasty cases where cerebrospinal fluid (CSF) leak prevention is critical.

According to a 2024 study published in the Journal of Neurosurgery: Spine by Dykhouse et al., spine procedure volumes in the U.S. increased from approximately 800,000 in 2013 to over 1.1 million in 2022, representing a steady and sustained growth. This expansion is closely linked with a surge in degenerative spine disorders, aging demographics, and improved surgical safety, particularly for older patients.

Hospitals and ambulatory surgical centers prioritize sealants and glues that ensure watertight closure, reduce postoperative complications, and support value-based outcomes. The rising adoption of advanced products, such as PEG-based hydrogels, collagen grafts, and synthetic sealants, along with favorable reimbursement and increasing outpatient surgical volumes, further fuels market expansion. Hospitals and surgical centers are prioritizing products that minimize cerebrospinal fluid (CSF) leaks, shorten recovery times, and lower readmission rates. According to the Agency for Healthcare Research and Quality (AHRQ), postoperative CSF leaks account for up to 3-8% of neurosurgical complications, often requiring revision surgery. These reoperations not only elevate costs by nearly USD 25,000-USD 40,000 per case, but

also significantly extend hospital stays and increase infection risk.

Moreover, the accelerating adoption of robotic-assisted and image-guided surgery (IGS) presents a clear growth pathway for dural sealants and fibrin glues in the U.S. As neurosurgeons and spine teams migrate toward precision platforms, demand rises for adjunctive products that are reliable, compatible with minimally invasive workflows, and deliver predictable watertight closure in constrained operative fields. A 2025 scientometric analysis published in Cureus reviewed the publication trends for dural sealants in spine surgery. It found that nearly 40% of research originates in the U.S., and recent research topics have shifted from “types of sealants” to “clinical outcomes, safety, efficacy, and workflow integration”.

Furthermore, an industry review of surgical robotics published by MPO Magazine in October 2025 described the field entering a “new phase” where platforms emphasize software-led differentiation, outpatient redesign and compatibility with adjunct devices. These data points demonstrate a growing intersection between advanced surgical platforms (robotics/IGS) and dural adjunct technologies, creating a substantive momentum for sealants and glues optimized for these environments. These factors are collectively contributing to the growth of market.

## U.S. Dural Sealants And Fibrin Glues Market Report Segmentation

This report forecasts revenue growth at the country level and analyzes the latest industry trends in each sub-segments from 2024 to 2035. For this study, Grand View Research has segmented the U.S. dural sealants and fibrin glues market report based on CPT procedure codes and end use:

### CPT Procedure Codes Outlook (Revenue, USD Unit, 2024 - 2035)

61510 / 61512 - Craniotomy for supratentorial lesion removal

61320 - 61323 - Craniectomy or craniotomy, decompressive (with or without duraplasty)

61518- Craniotomy for infratentorial/posterior fossa lesion

62140 / 62141- Cranioplasty or dural reconstruction

63707- Repair of CSF leak, cranial or spinal, without laminectomy

63709 - Repair of CSF leak or pseudomeningocele with laminectomy

63710- Dural graft (spinal)

63030 - Laminotomy/laminectomy (lumbar), decompression of nerve root

63047 - Laminectomy, >1 vertebral segment, lumbar

22612 / 22630 - Posterior spinal fusion with decompression

End Use Outlook (Revenue, USD Unit, 2024 - 2035)

Hospitals

Ambulatory Surgical Centers

Specialty Clinics

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