

# U.S. Laparotomy Sponge Market Size, Share & Trends Analysis Report By Product (Radiopaque Laparotomy Sponge, Traditional Laparotomy Sponge, Radio-frequency Identification Laparotomy Sponge), By End-use (Hospitals & Clinics), And Segment Forecasts, 2025 - 2033

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## Abstracts

### U.S. Laparotomy Sponge Market Trends

The U.S. laparotomy sponge market size was valued at USD 422.7 million in 2024 and is projected to reach USD 706.9 million by 2033, growing at a CAGR of 5.9% from 2025 to 2033. Key factors driving growth include a rise in abdominal surgeries due to conditions such as cancer and hernias, as well as an increase in C-sections. Demand is further enhanced by concerns regarding retained surgical items, which have led to the adoption of radiopaque and RFID-enabled sponges. Additionally, the growth is fueled by the aging population, increased surgical volumes in outpatient settings, and advancements in sponge design and materials, all supported by regulatory emphasis on surgical safety and infection control.

Additionally, the U.S. is witnessing heightened focus on surgical safety, particularly in preventing retained surgical items (RSIs). RSIs, especially sponges, are among the most common and dangerous surgical errors, leading to severe complications, repeat surgeries, infections, and even fatalities. For instance, according to the National Quality Forum (NQF), 2,000-4,000 cases of retained surgical items (RSIs) are reported yearly in the U.S., where sponges are the most frequently retained objects.

Laparotomy sponges are used in sterile, high-bleeding-risk operations, including

resections. According to the American Cancer Society, approximately 106,180 new colorectal cases were recorded in the U.S., many of which require open (laparotomy) procedures, where sponges are essential for fluid management and tissue retraction.

Sustainability, ergonomic design, and targeted customization are emerging as influential factors in the evolution of laparotomy sponges in the U.S. healthcare market. As hospitals increasingly prioritize environmentally responsible procurement, manufacturers are responding by developing laparotomy sponges made with eco-friendly materials, reduced packaging waste, and biodegradable components. These innovations align with broader institutional goals of lowering medical waste and achieving greener operating room practices. In a market that has historically focused on functionality and cost, sustainability is now becoming a competitive differentiator, especially among large hospital systems aiming to meet ESG (Environmental, Social, and Governance) targets.

In parallel, ergonomic design and procedure-specific customization are enhancing surgical efficiency and safety. Modern laparotomy sponges are being developed with features such as reinforced edges for easier retrieval, improved texture for better fluid absorption, and color-coded systems to assist in intraoperative tracking. Some products are even customized based on surgical specialty—such as gynecologic oncology or trauma care, ensuring optimal size, shape, and absorbency for the intended use.

## U.S. Laparotomy Sponge Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. laparotomy sponge market report based on product and end-use:

Product Outlook (Revenue, USD Million, 2021 - 2033)

Radiopaque Laparotomy Sponge

Traditional Laparotomy Sponge

Radio-frequency Identification (RFID) Laparotomy Sponge

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals & Clinics

Others

**This report can be delivered to the clients within 3 Business Days**

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