

BOEHRINGER



Caring for Lives through Innovation, Quality and Service

Minimizing trauma for patients.



UpLivt™

Suction-Based Liver Retractor Value Analysis Resource Guide

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A Novel Solution for Liver Retraction

Boehringer Laboratories, LLC proudly introduces UpLivr™. This liver retractor has been tried and tested on livers in bariatric procedures. Liver retraction is a crucial component of bariatric surgery, essential for lifting and securing the liver away from the surgical site to ensure clear visualization and access to the stomach and upper gastrointestinal structures. The left lobe of the liver obstructs the surgeon's view, particularly in obese patients where liver enlargement is common, making effective retraction a vital step in the procedure.¹

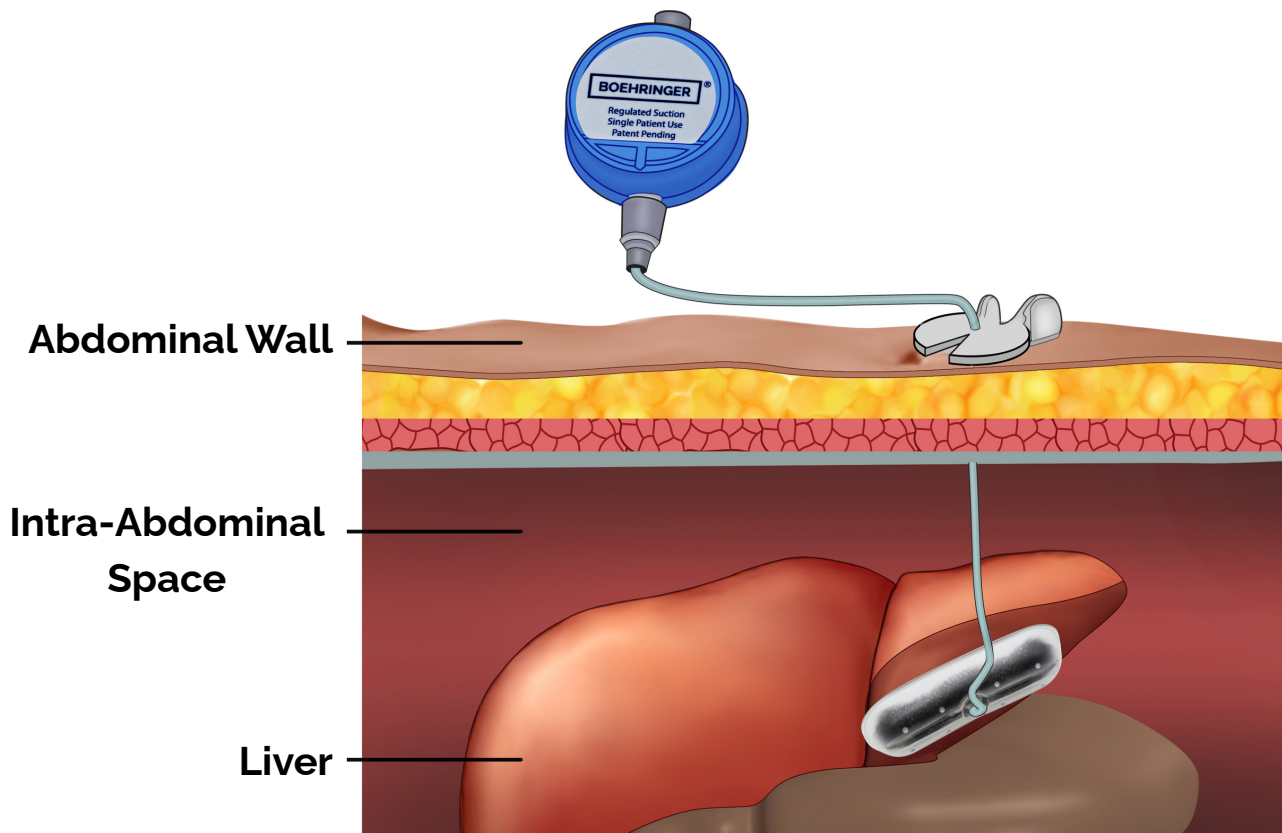
The primary goal of liver retraction is to establish a safe, unobstructed operative field. An optimal retraction solution should enhance precision while minimizing the risk of complications such as liver lacerations or compression injuries during the procedure.¹

Currently, various techniques are employed for liver retraction in bariatric surgery. However, most require additional large incisions and can exert excessive pressure on liver tissue, increasing the risk of postoperative complications such as pain, elevated liver enzymes, hematomas, and necrosis.^{2, 3}

UpLivr™ offers surgeons an innovative approach to liver retraction, enhancing efficiency in the operating room.



UpLivt™



UpLivt™ minimizes trauma for patients.

- Suction-based
- Atraumatic
- Minimally Invasive
- Physician Adjustable
- Streamlined Setup Process

ADDITIONAL INFORMATION

Supplied: Sterile

Flexible Tube Length: 18"

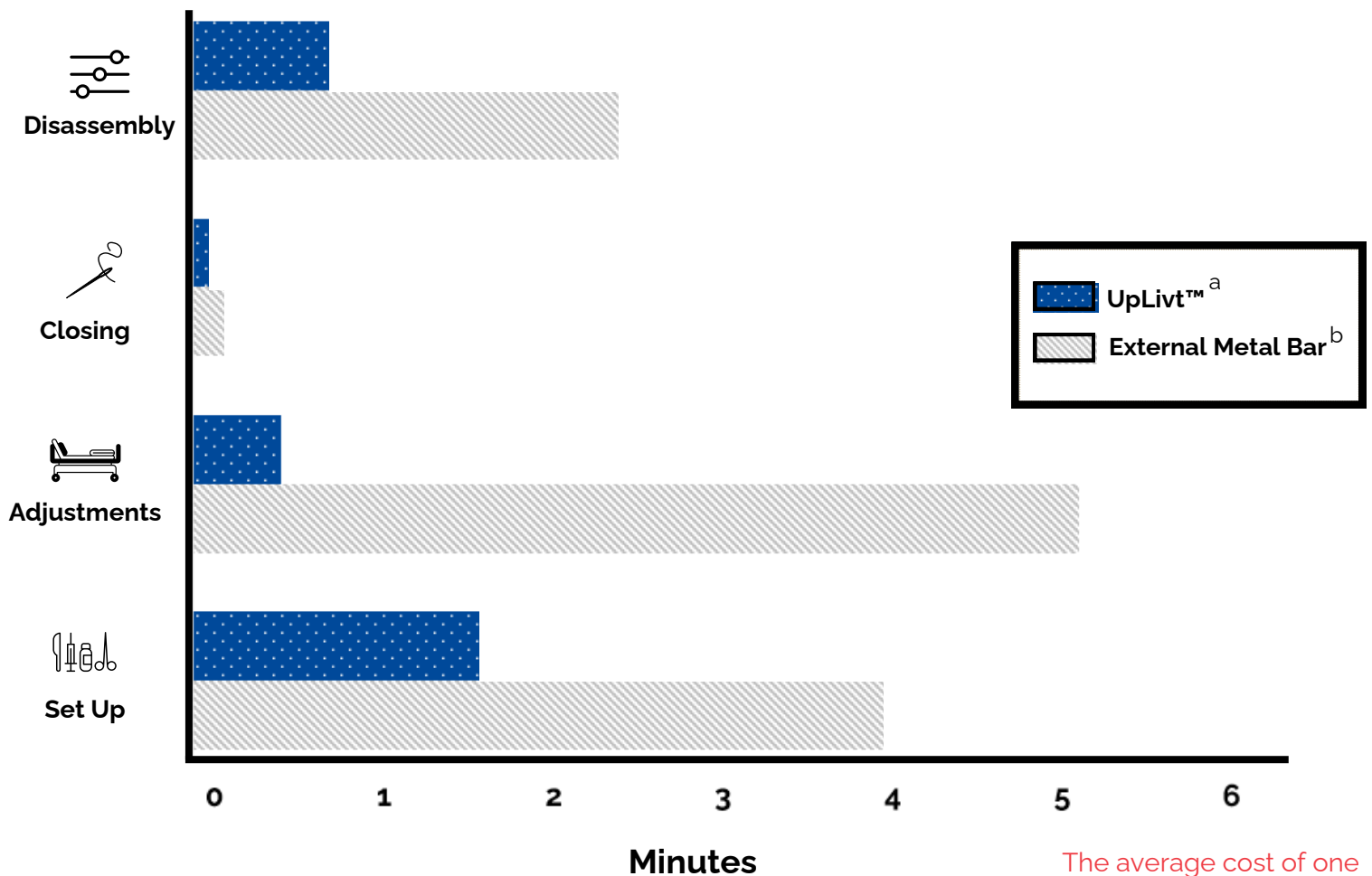
Suction Cup: 2.9" x 0.98" x 0.48" (L x W x H)

Packaging: Box of 10 individually packaged units

Part Number: 5200

Maximizing Efficiency with UpLivr™

External Metal Retractor vs UpLivr™:
Time Savings Associated with Liver Retraction Methods



a. UpLivr™ data on file- based on completed clinical trial with United States Bariatric Surgeons.

b. Nathanson data based on multiple discussions with United States Bariatric Surgeons

UpLivr™

510(K) CLEARANCE

Regulatory Pathway: 510(k)

K243399

Trade/Device Name: Boehringer Laboratories Liver Retractor

Regulation Number: 21 CFR 876.1500

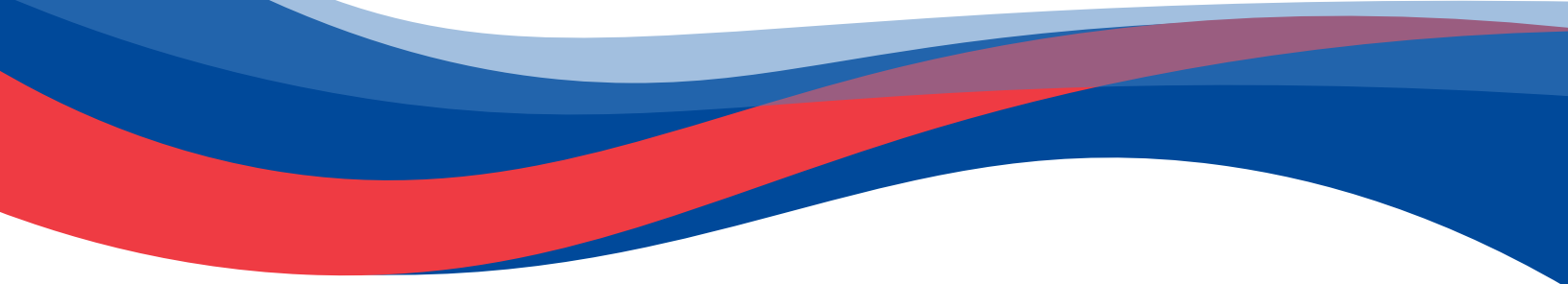
Regulation Name: Endoscope And Accessories

Regulatory Class: Class II

Product Code: GCJ

Approval Date: July 2, 2025

On July 2, 2025, Boehringer Laboratories' liver retractor, UpLivr™, was determined to be substantially equivalent to a legally marketed predicate device. Please see the attached documentation for the FDA regulatory clearance letter.



REFERENCES

1. Ahmad A, Arellano JJ, Agarwala A, Ahmad Z, Ahmad Z. A percutaneous technique of liver retraction in laparoscopic bariatric & upper abdominal surgery. *Surg Obes Relat Dis.* 2016 Sep-Oct;12(8):1626-1629. doi: 10.1016/j.soard.2016.08.014. Epub 2016 Aug 18. PMID: 27639986.
2. Ertekin, S.C., Onsal, U., Turgut, E. et al. A Comparative Analysis of the Liver Retraction with Long Surgical Gauze in Three-Port Sleeve Gastrectomy and the Four-Port Nathanson Retractor Technique. *OBES SURG* 35, 561–570 (2025). <https://doi.org/10.1007/s11695-024-07663-x>
3. Midya, S., Ramus, J., Hakim, A. et al. Comparison of Two Types of Liver Retractors in Laparoscopic Roux-en-Y Gastric Bypass for Morbid Obesity. *OBES SURG* 30, 233–237 (2020). <https://doi.org/10.1007/s11695-019-04142-6>
4. Smith, Tyler Scott, et al. "Cost of Operating Room Time Is \$46.04 Dollars per Minute." *Journal of Orthopaedic Business*, Texas Tech University Health Science Center El Paso Paul L. Foster School of Medicine, n.d., <https://www.jorthobusiness.org/index.php/jorthobusiness/article/view/23/20>.

ABOUT

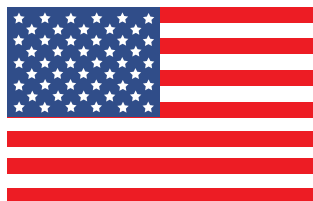
BOEHRINGER LABORATORIES

For over 50 years, Boehringer Laboratories, LLC has delivered expertly engineered solutions across respiratory therapy, suction control, and minimally invasive surgery. Our legacy of innovation is backed by numerous U.S. and international patents, reflecting our commitment to advancing medical technology. Among our many breakthroughs, the ViSiGi® stands out as the world's first and leading sleeve calibration system designed specifically for bariatric procedures. We take great pride in our ability to innovate, consistently providing safe, reliable, and cost-effective products that healthcare professionals can trust.

Our commitment to world-class quality is evident in every aspect of our devices—from thoughtful design and premium materials to the expert craftsmanship behind each product. In an industry where offshoring to reduce costs has become the norm, we take pride in manufacturing all of our products at our FDA-inspected facility just outside Philadelphia, Pennsylvania.

At Boehringer Laboratories, LLC, we are committed to developing world-class products that enhance patients' lives, empower clinicians to deliver exceptional care, and bring meaningful value to the healthcare system. We strive for continuous improvement in our skills and capabilities to better serve our customers, our community, and one another.

Made in the USA



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