

2/23/2023

Deep Blue Medical Advances, Inc. % Nancy Lince President and CEO Lince Consulting, LLC 111 Deerwood Road, Suite 200 San Ramon, California 94583

Re: K230227

Trade/Device Name: T-Line Hernia Mesh Regulation Number: 21 CFR 878.3300 Regulation Name: Surgical Mesh

Regulatory Class: Class II

Product Code: FTL Dated: January 25, 2023 Received: January 27, 2023

#### Dear Nancy Lince:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm</a> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's

requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801 and Part 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <a href="https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products">https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products</a>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <a href="https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems">https://www.fda.gov/medical-device-problems</a>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</a>) and CDRH Learn (<a href="https://www.fda.gov/training-and-continuing-education/cdrh-learn">https://www.fda.gov/training-and-continuing-education/cdrh-learn</a>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</a>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Deborah A. Fellhauer -S

Deborah Fellhauer RN, BSN
Assistant Director
Plastic Surgery Skin and Wound Devices Team
DHT4B: Division of Infection Control and Plastic Surgery
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Devices
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CDRH | Food and Drug Administration

Enclosure

Confidential Appendix E, Page 1 of 1

## DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

### **Indications for Use**

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2023

See PRA Statement below.

510(k) Number (if known)
K230227
Device Name
T-Line Hernia Mesh
Indications for Use (Describe)
The T-Line Hernia Mesh is indicated for the reinforcement of soft tissue where weakness exists for the repair of ventral
hernias performed via an open onlay or sublay approach in adults (greater than 21 years of age).
Type of Use (Select one or both, as applicable)
CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

#### \*DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.\*

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#### 510(k) SUMMARY

**DATE PREPARED** January 25, 2023

SUBMITTER Deep Blue Medical Advances, Inc.

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Establishment Registration No.: 3017492634

CONTACT PERSON

Nancy Lincé

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**DEVICE** T-Line<sup>®</sup> Hernia Mesh

Common Name: Surgical MeshProduct Code(S): FTL

CFR Classification and Name: 21 CFR§878.3300 Mesh, Surgical,

Polymeric

PREDICATE DEVICE K221556, K193144 T-Line® Hernia Mesh

Reference Device: K172636 VitaMESH Macroporous PP Surgical Mesh

DEVICE DESCRIPTION

The T-Line® Hernia Mesh is manufactured by knitting and heat pressing standard medical grade polypropylene monofilament yarn using well-established standard processes that are used to manufacture other commercially available hernia meshes. Mesh extensions are used to apply the device to the abdominal wall. The extensions of the T-Line® Hernia Mesh are incorporated directly into the mesh body. The mesh design incorporates continuous, uninterrupted, seamless extensions from the mesh body to facilitate mesh securement to tissue. After knitting, needles are swaged onto the ends of the extensions to allow the extensions to be sewn into the abdominal fascia by surgeons akin to how sutures are sewn into fascia.

INTENDED USE

The T-Line® Hernia Mesh is indicated for the reinforcement of soft tissue where weakness exists for the repair of ventral hernias performed via an open onlay or sublay approach in adults (greater than 21 years of age).

COMPARISON TO PREDICATE TECHNOLOGICAL CHARACTERISTICS The T-Line® Hernia Mesh is substantially equivalent to the T-Line® Hernia Mesh cleared under K221556 and K193144. The subject and predicate devices are identical in terms of intended use, indications for use, function, technology, safety, performance as well as procedural steps and labeling. This 510(k) was limited to a change in contract manufacturer of the T-Line® Hernia Mesh, including the supplier of the raw materials used.

# PERFORMANCE DATA

A risk analysis was conducted and confirmed there are no new risks associated with the subject T-Line® Hernia Mesh. Appropriate evaluations (non-clinical testing) have shown that the modified T-Line® Hernia Mesh continues to meet the same pre-determined functional and performance requirements and external standard requirements as the predicate device and do not raise any new questions of safety or effectiveness.

#### CONCLUSION

Based on the indications for use, technological characteristics, performance testing, and comparison to the predicate and reference devices, substantial equivalence of the modified T-Line® Hernia Mesh has been demonstrated.