

December 17, 2020

Spineart Franck Pennesi Chief Technical Officer 3 Chemin du Pré Fleuri Plan Les Ouates, Geneva 1228 Switzerland

Re: K203222

Trade/Device Name: PERLA TL Posterior Osteosynthesis System

Regulation Number: 21 CFR 888.3070

Regulation Name: Thoracolumbosacral Pedicle Screw System

Regulatory Class: Class II Product Code: NKB, KWP Dated: October 29, 2020 Received: November 2, 2020

#### Dear Franck Pennesi:

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); 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 (<a href="DICE@fda.hhs.gov">DICE@fda.hhs.gov</a>) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Colin O'Neill, M.B.E.
Assistant Director
DHT6B: Division of Spinal Devices
OHT6: Office of Orthopedic Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

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

#### **Indications for Use**

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2020 See PRA Statement below.

510(k) Number (if known) K203222

Device Name

PERLA® TL posterior osteosynthesis system

Indications for Use (Describe)

The PERLA® TL posterior osteosynthesis system is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine: degenerative disc disease; spondylolisthesis; fracture; dislocation; scoliosis; kyphosis; spinal tumor; and failed previous fusion (pseudarthrosis). When used for posterior non-cervical pedicle screw fixation in pediatric patients, the PERLA® TL posterior osteosynthesis system is indicated as an adjunct to fusion to treat adolescent idiopathic scoliosis. The PERLA® TL posterior osteosynthesis system is intended to be used with autograft and/or allograft. Pediatric pedicle screw fixation is limited to a posterior approach.

Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)

#### CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

# Traditional 510k Perla® TL Posterior Osteosynthesis System Extension line



### 510(k) SUMMARY

Basis for submission New devices  SPINEART 3 Chemin du Pré Fleuri 1228 PLAN LES OUATES GENEVA SWITZERLAND Franck PENNESI Chief Technical Officer Phone: +41 22 570 1200 Fax: +41 22 594 8306 Mail: [pennesi@spineart.com Regulatory contact: Dr Isabelle DRUBAIX (Idée Consulting) idrubaix@nordnet.fr  Date Prepared December 11, 2020 Common Name Pedicle screw spinal system  Trade Name PERLA® TL posterior osteosynthesis system  Classification Name Thoracolumbosacral pedicle screw system  Class II Product Codes NKB, KWP CFR section 888.3070, 888.3050 Device panel ORTHOPEDIC  Primary predicate: PERLA® TL Posterior Osteosynthesis System manufactured by Spineart (K193396) Additional predicate: ROMEO® 2 Posterior Osteosynthesis System manufactured by Spineart (K193396) Additional predicate: ROMEO® 2 Posterior Osteosynthesis System manufactured by Spineart (K172101), ELLIPSE Lumbar Posterior Osteosynthesis System manufactured by Spineart (K193396) The PERLA® TL posterior osteosynthesis system is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine: degenerative disc disease; spondylolisthesis; fracture; dislocation; scoliosis; kyphosis; spinal tumor; and failed previous fusion (pseudarthrosis). When used for posterior noncervical pedicle screw fixation in pediatric patients, the PERLA® TL posterior osteosynthesis system is intended to be used with autograft and/or allograft. Pediatric pedicle screw fixation is limited to a posterior approach	510k	TRADITIONAL
Submitted by  3 Chemin du Pré Fleuri 1228 PLAN LES OUATES GENEVA SWITZERLAND  Franck PENNESI Chief Technical Officer Phone: +41 22 570 1200 Fax: +41 22 594 8306  Mail: fpennesi@spineart.com Regulatory contact: Dr Isabelle DRUBAIX (Idée Consulting) idrubaix@nordnet.fr  Date Prepared December 11, 2020  Common Name Pedicle screw spinal system  Trade Name PERLA® TL posterior osteosynthesis system  Classification Name Thoracolumbosacral pedicle screw system  Class II  Product Codes NKB, KWP  CFR section 888.3070, 888.3050  Device panel ORTHOPEDIC  Primary predicate: PERLA® TL Posterior Osteosynthesis System manufactured by Spineart (K193396)  Additional predicate: ROMEO® 2 Posterior Osteosynthesis System manufactured by Spineart (K172101), ELLIPSE Lumbar Posterior Osteosynthesis System manufactured by Spineart in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine: degenerative disc disease; spondylolisthesis; fracture; dislocation; scoliosis; kyphosis; spinal tumor; and failed previous fusion (pseudarthrosis). When used for posterior noncervical pedicle screw fixation in pediatric patients, the PERLA® TL Posterior osteosynthesis system is intended to be used with autograft and/or allograft.	Basis for submission	New devices
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instabilities or deformities of the thoracic, lumbar, and sacral spine: degenerative disc disease; spondylolisthesis; fracture; dislocation; scoliosis; kyphosis; spinal tumor; and failed previous fusion (pseudarthrosis). When used for posterior noncervical pedicle screw fixation in pediatric patients, the PERLA® TL posterior osteosynthesis system is indicated as an adjunct to fusion to treat adolescent idiopathic scoliosis. The PERLA® TL posterior osteosynthesis system is intended to be used with autograft and/or allograft.		immobilization and stabilization of spinal segments in skeletally mature patients
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osteosynthesis system is indicated as an adjunct to fusion to treat adolescent idiopathic scoliosis. The PERLA® TL posterior osteosynthesis system is intended to be used with autograft and/or allograft.		tumor; and failed previous fusion (pseudarthrosis). When used for posterior non-
idiopathic scoliosis. The PERLA® TL posterior osteosynthesis system is intended to be used with autograft and/or allograft.		cervical pedicle screw fixation in pediatric patients, the PERLA® TL posterior
be used with autograft and/or allograft.		osteosynthesis system is indicated as an adjunct to fusion to treat adolescent
		idiopathic scoliosis. The PERLA® TL posterior osteosynthesis system is intended to
Pediatric pedicle screw fixation is limited to a posterior approach		be used with autograft and/or allograft.
		Pediatric pedicle screw fixation is limited to a posterior approach

Description of the device	The PERLA® TL posterior osteosynthesis system consists of a range of screws, rods, set screws, hooks, rod connectors and cross-connectors. These connecting components can be rigidly locked to the rod in a variety of configurations to be adapted for the individual case. The Perla®TL system is manufactured from medical grade titanium alloy and medical grade cobalt chromium conforming respectively to standards ASTM F136 and ASTM F1537.  The PERLA® TL posterior osteosynthesis implants are delivered either non sterile or sterile (gamma sterilization) and supplied with dedicated surgical instruments (reusable – provided non-sterile except for the drill supplied as sterile or not sterile). Bacterial endotoxin testing in conformance to AAMI ST72 is used for pyrogenicity testing to achieve the Endotoxin limit of 20 EU / device.
Technological characteristics compared to the predicate devices	The subject product line extension of the PERLA® TL Posterior Osteosynthesis System manufactured by Spineart (K193396) consists of addition of  - Hooks (Extra Small, Small and Medium Pedicular hooks, extra small and medium laminar lumbar hooks, left and right small laminar angled hooks, left and right large laminar offset hooks),  - Rod to rod connectors (offset parallel open/close and offset parallel open/open) and  - Cross Connectors (modular transverse connector hook).  As was established in this submission, the PERLA® TL added components are substantially equivalent and have the same technological characteristics to predicate devices in areas including indications for use, function, material composition, design, range of sizes and mechanical performance.
Discussion of Testing	Axial gripping capacity in conformance to ASTM F1798 was conducted on the added modular transverse connector hook. Results demonstrate comparable mechanical properties to the predicate devices (K172101).
Conclusion	Based on the design features, technological characteristics, feature comparisons, indications for use, and non-clinical performance testing, the PERLA® TL posterior osteosynthesis system added components have demonstrated substantial equivalence to the identified predicate devices.