

September 16, 2020

Medos International, SARL % Nicole Aeschbacher Regulatory Affairs Specialist DePuy Synthes Spine Eimattstrasse 3 Oberdorf, CH-BL 4436 Switzerland

Re: K201661

Trade/Device Name: Symphony Navigation Ready Instruments, Universal Navigation Adaptor Set Regulation Number: 21 CFR 882.4560 Regulation Name: Stereotaxic Instrument Regulatory Class: Class II Product Code: OLO Dated: June 17, 2020 Received: June 18, 2020

Dear Nicole Aeschbacher:

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 https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm 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 Federal Register.

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 https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); 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 <u>https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems</u>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<u>https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</u>) and CDRH Learn (<u>https://www.fda.gov/training-and-continuing-education/cdrh-learn</u>). 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 (<u>https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</u>) for more information or contact DICE by email (<u>DICE@fda.hhs.gov</u>) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Shumaya Ali, M.P.H.
Assistant Director
DHT6C: Division of Restorative, Repair and Trauma Devices
OHT6: Office of Orthopedic Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number *(if known)* K201661

Device Name

SYMPHONYTM Navigation Ready Instruments and Universal Navigation Adaptor Set

Indications for Use (Describe)

SYMPHONY Navigation Ready Instruments:

The SYMPHONY Navigation Ready Instruments when used with the compatible Universal Navigation Adaptor Set are intended to assist the surgeon in locating anatomical structures in either open or percutaneous procedures. These are indicated for use in surgical spinal procedures, in which:

• the use of SYMPHONY OCT System is indicated,

• the use of stereotactic surgery may be appropriate, and

• reference to a rigid anatomical structure, such as a vertebrae can be identified relative to the acquired image (CT, MR, 2D fluoroscopic image or 3D fluoroscopic image reconstruction) and/or an image data based model of the anatomy using a navigation system and associated tracking arrays.

These procedures include but are not limited to spinal fusion. The SYMPHONY Navigation Ready Instruments can be pre-calibrated and/or manually calibrated with the Brainlab Navigation System, where other navigation systems require manual calibration and tracking arrays supplied by the navigation system manufacturer.

The SYMPHONY Navigation Ready Instruments are intended to support indicated cervical and thoracic polyaxial screw placement.

Universal Navigation Adaptor Set:

The Universal Navigation Adaptor Set (UNAS) is intended for use with the compatible DePuy Synthes Navigation Ready Instruments to assist the surgeon in locating anatomical structures in either open or percutaneous procedures. These are indicated for use in surgical spinal procedures, in which:

• the use of stereotactic surgery may be appropriate, and

• reference to a rigid anatomical structure, such as the pelvis or a vertebrae can be identified relative to the acquired image (CT, MR, 2D fluoroscopic image or 3D fluoroscopic image reconstruction) and/or an image data based model of the anatomy using a navigation system and associated tracking arrays.

These procedures include but are not limited to spinal fusion. The DePuy Synthes Navigation Ready Instrument, when used with UNAS, can be pre-calibrated and/or manually calibrated with the Brainlab Navigation System, where other navigation systems require manual calibration and tracking arrays supplied by the navigation system manufacturer.

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.

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510(k) Summary

A.	Submitter Information	
	510(k) Sponsor:	Medos International, SARL
	Contact Person:	Nicole Aeschbacher, Regulatory Affairs Specialist
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		Switzerland
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	Email:	naeschba@its.jnj.com
B.	Date Prepared	June 17, 2020
C.	Device Name	
	Trade/Proprietary Name:	SYMPHONY TM Navigation Ready Instruments and Universal Navigation Adaptor Set
	Common/Usual Name:	Orthopedic stereotaxic instrument
	Device Classification and Regulation:	Class II per 21 CFR § 882.4560
	Classification Product and Panel Code:	OLO; Orthopedic
D.	Predicate Device Names	
	Primary Predicate Device:	

SYMPHONYTM Navigation Ready Instruments and Universal Navigation Adaptor Set (K191943)

Additional Predicate Devices:

Synthes Navigable Pedicle Preparation (NPP) Instruments (K122211)

Brainlab Spine & Trauma Navigation (K183605)

E. Device Description

SYMPHONY Navigation Ready Instruments:

The SYMPHONY Navigation Ready Instruments are reusable instruments used for the preparation for and insertion of SYMPHONY OCT screws, in either open or percutaneous procedures. These instruments are designed for navigated and nonnavigated use. Navigation of these instruments is achieved using the DePuy Synthes Universal Navigation Adaptor Set (UNAS). For further details on UNAS, refer to the UNAS labeling.

Universal Navigation Adaptor Set:

The Universal Navigation Adaptor Set (UNAS) contains reusable spine surgical instruments used to aid in determining the correct location and trajectory of spinal instruments and implants. The UNAS has an interface between third-party navigation systems and the DePuy Synthes Navigation Ready Instruments. The UNAS can only be used with Brainlab and Medtronic StealthStation® navigation systems. The UNAS includes:

- Brainlab compatible UNAS Navigation Arrays,
- Brainlab compatible Navigation Ring and
- Medtronic compatible Navigation Ring ST.

The Navigation Ring and Navigation Ring ST mates with compatible DePuy Synthes Navigation Ready Instruments. These instruments include drill guides, probe, taps and screwdrivers. Drills and trocar are indirectly navigable through the drill guide.

When the Brainlab compatible Navigation Ring is attached to the Navigation Ready Instrument, a UNAS Navigation Array can be attached and the instrument can be used only with the Brainlab Navigation System as either a manually calibrated or pre-calibrated instrument.

When the Navigation Ring ST is attached to the Navigation Ready Instrument, a Medtronic SureTrak® II Universal Tracker Fighter array (SureTrak II array) can be attached, and the instrument can be manually calibrated only with the Medtronic StealthStation navigation system.

F. Indications for Use

SYMPHONY Navigation Ready Instruments:

The SYMPHONY Navigation Ready Instruments when used with the compatible Universal Navigation Adaptor Set are intended to assist the surgeon in locating anatomical structures in either open or percutaneous procedures. These are indicated for use in surgical spinal procedures, in which:

- the use of SYMPHONY OCT System is indicated,
- the use of stereotactic surgery may be appropriate, and
- reference to a rigid anatomical structure, such as a vertebrae can be identified relative to the acquired image (CT, MR, 2D fluoroscopic image or 3D fluoroscopic image reconstruction) and/or an image data based model of the anatomy using a navigation system and associated tracking arrays.

These procedures include but are not limited to spinal fusion. The SYMPHONY Navigation Ready Instruments can be pre-calibrated and/or manually calibrated with the Brainlab Navigation System, where other navigation systems require manual calibration and tracking arrays supplied by the navigation system manufacturer.

The SYMPHONY Navigation Ready Instruments are intended to support indicated cervical and thoracic polyaxial screw placement.

Universal Navigation Adaptor Set:

The Universal Navigation Adaptor Set (UNAS) is intended for use with the compatible DePuy Synthes Navigation Ready Instruments to assist the surgeon in locating anatomical structures in either open or percutaneous procedures. These are indicated for use in surgical spinal procedures, in which:

- the use of stereotactic surgery may be appropriate, and
- reference to a rigid anatomical structure, such as the pelvis or a vertebrae can be identified relative to the acquired image (CT, MR, 2D fluoroscopic image or 3D fluoroscopic image reconstruction) and/or an image data based model of the anatomy using a navigation system and associated tracking arrays.

These procedures include but are not limited to spinal fusion. The DePuy Synthes Navigation Ready Instrument, when used with UNAS, can be pre-calibrated and/or manually calibrated with the Brainlab Navigation System, where other navigation systems require manual calibration and tracking arrays supplied by the navigation system manufacturer.

G. Summary of Similarities and Differences in Technological Characteristics, Performance, and Intended Use

The technological characteristics, including material, design and performance as well as intended use of the SYMPHONY Navigation Ready Instruments and Universal Navigation Adaptor Set are consistent with those of the predicate devices.

H. Materials

The subject devices are manufactured from stainless steel, titanium alloy (Ti-6Al-4V), anodized aluminum, TiN (Titanium Nitride Coating), TiAlN (Titanium Aluminum Nitride Coating), RADEL and silicone rubber.

I. Performance Data

The performance data for the subject devices consists of the following evaluations:

- Accuracy Verification:
 - o Fulfillment of navigation systems instrument accuracy requirements
 - Instrument Length Comparison to Predicate Device
 - Array Characteristics Comparison to Predicate Device
 - o Confirmation of Array Recognition by Brainlab Navigation System
- Implant/instrument mating conditions
- Navigation Connection Repeatability for Pre-Calibrated Instruments
- CAD Model Evaluation
- Simulated Use Evaluation

J. Conclusion

The indications for use of the SYMPHONY Navigation Ready Instruments and Universal Navigation Adaptor Set are consistent with those of the predicate devices. The technological characteristics of the SYMPHONY Navigation Ready Instruments and Universal Navigation Adaptor Set in terms of design, materials and performance are consistent with those of the predicate devices. The SYMPHONY Navigation Ready Instruments and Universal Navigation Adaptor Set are substantially equivalent to the predicate devices.