



Food and Drug Administration  
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March 5, 2015

NuVasive, Incorporated  
Ms. Olga Lewis  
Regulatory Affairs Specialist  
7475 Lusk Boulevard  
San Diego, California 92121

Re: K143388

Trade/Device Name: NuVasive<sup>®</sup> Affix IIS<sup>®</sup> Spinous Process Plate System  
Regulation Number: 21 CFR 888.3050  
Regulation Name: Spinal interlaminar fixation orthosis  
Regulatory Class: Class II  
Product Code: PEK  
Dated: February 4, 2015  
Received: February 5, 2015

Dear Ms. Lewis:

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. 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.

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); good manufacturing practice requirements as set

forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. 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

<http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

**Lori A. Wiggins -S**

for

Mark N. Melkerson

Director

Division of Orthopedic Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known)

K143388

Device Name

NuVasive® Affix IIS® Spinous Process Plate System

Indications for Use (Describe)

The Affix IIS Spinous Process Plate System is a posterior, non-pedicle supplemental fixation device, intended for use at a single level in the lumbosacral spine (L1 – S1). It is intended for plate fixation/attachment to the spinous process for the purpose of achieving supplemental fusion in the following conditions:

- Degenerative disc disease (DDD) - defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies.
- Spondylolisthesis
- Trauma (i.e., fracture or dislocation)
- Tumor

The Affix IIS Spinous Process Plate System is not intended for stand-alone use.

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)

**PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON A SEPARATE PAGE IF NEEDED.**

### FOR FDA USE ONLY

Concurrence of Center for Devices and Radiological Health (CDRH) (Signature)

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

In accordance with Title 21 of the Code of Federal Regulations, Part 807, and in particular 21 CFR §807.92, the following summary of information is provided:

### A. Submitted by:

Olga Lewis  
Regulatory Affairs Specialist  
NuVasive, Incorporated  
7475 Lusk Blvd.  
San Diego, California 92121  
Telephone: (858) 909-1800  
  
Date Prepared: March 4, 2015

### B. Device Name

Trade or Proprietary Name:	<i>NuVasive® Affix® IIS Spinous Process Plate System</i>
Common or Usual Name:	Spinal interlaminar fixation orthosis
Classification Name:	Spinal interlaminar fixation orthosis
Device Class:	Class II
Classification:	21 CFR § 888.3050
Product Code:	PEK

### C. Predicate Devices

The subject *Affix IIS Spinous Process Plate System* is substantially equivalent to the primary predicate device, *NuVasive Affix II Spinous Process Plate* (K132411) and additional predicate devices *Lanx Spinous Process Fusion Plate* (K121940) and *Axle Interspinous Fusion System* (K130438).

### D. Device Description

The *Affix IIS Spinous Process Plate System* is a posterior, non-pedicle supplemental fixation device, intended for use at a single level in the lumbosacral spine (L1–S1). It is intended for plate fixation/attachment to the spinous process for the purpose of achieving supplemental fusion, and is not intended for stand-alone use.

### E. Indications for Use

The *Affix IIS Spinous Process Plate System* is a posterior, non-pedicle supplemental fixation device, intended for use at a single level in the lumbosacral spine (L1 – S1). It is intended for plate fixation/attachment to the spinous process for the purpose of achieving supplemental fusion in the following conditions:

- Degenerative disc disease (DDD) - defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies.
- Spondylolisthesis
- Trauma (i.e., fracture or dislocation)
- Tumor

The *Affix IIS Spinous Process Plate System* is not intended for stand-alone use.

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**F. Technological Characteristics**

As was established in this submission, the subject *Affix IIS Spinous Process Plate System* is substantially equivalent to other predicate devices cleared by the FDA for commercial distribution in the United States. The subject device was shown to be substantially equivalent and have equivalent technological characteristics to its predicate device through comparison in areas including design, labeling/intended use, material composition, and function.

**G. Performance Data**

Nonclinical testing was performed to demonstrate that the subject *Affix IIS Spinous Process Plate System* is substantially equivalent to other predicate devices. The following testing was performed:

- Static and dynamic axial compression
- Static torsion

The results demonstrate that the subject *Affix IIS Spinous Process Plate System* is substantially equivalent to the predicate.

**H. Conclusions**

Based on the indications for use, technological characteristics, and comparison to predicate devices, the subject *Affix IIS Spinous Process Plate System* has been shown to be substantially equivalent to legally marketed predicate devices.

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