



Food and Drug Administration  
10903 New Hampshire Avenue  
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August 7, 2014

*aap* Implantate AG  
Dr. Christian Zietsch  
Manager Regulatory Affairs  
Lorenzweg 5  
Berlin, Berlin D-12099  
Germany

Re: K141823

Trade/Device Name: *aap* LOQTEQ® Clavicle Plates 2.7/3.5

Regulation Number: 21 CFR 888.3030

Regulation Name: Single/multiple component metallic bone fixation appliances and accessories

Regulatory Class: Class II

Product Code: HRS

Dated: June 25, 2014

Received: July 7, 2014

Dear Dr. Christian Zietsch:

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" (21CFR 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**

for

Mark N. Melkerson

Director

Division of Orthopedic Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

## Indications for Use Statement

510(k) Number (if known): K141823

**Device Name: aap LOQTEQ® Clavicle Plates 2.7/3.5**

### Indications for Use:

The aap LOQTEQ® Clavicle Shaft Plate and aap LOQTEQ® Superior Lateral Clavicle Plate are intended for fixation of fractures, malunions, non-unions, and osteotomies of the clavicle.

The aap LOQTEQ® AcroPlate is intended for fixation of lateral clavicle fractures and dislocations of the acromioclavicular joint.

Prescription Use  AND/OR Over-The-Counter Use   
(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF  
NEEDED)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

**Elizabeth L. Frank -S**

Division of Orthopedic Devices

## Summary of Safety and Effectiveness

<b>Sponsor:</b>	<b>aap Implantate AG</b> Lorenzweg 5 D-12099 Berlin, Germany
<b>Company Contact:</b>	Dr. Christian Zietsch Phone:+49-30-750-19 -193 Fax: +49-30-750-19 - 111
<b>Date</b>	June/20/ 2014
<b>Trade Name:</b>	aap LOQTEQ® Clavicle Plates 2.7/3.5
<b>Common Name:</b>	Clavicle Plates 2.7/3.5
<b>Classification Name and Reference:</b>	21 CFR 888.3030 Single/multiple component metallic bone fixation appliances and accessories – Class II
<b>Device Product Code and Panel Code:</b>	Orthopedics/87/ HRS
<b>Predicate device:</b>	The aap LOQTEQ® Clavicle Plates 2.7/3.5 are substantially equivalent to Synthes (USA) 3.5 mm LCP Clavicle Plate System under the premarket notification K073186 (Dec 17, 2007) and Synthes (USA) Clavicle Hook Plate under the premarket notification K061753 (Aug 04, 2008).
<b>Device Description:</b>	<p>The aap LOQTEQ® Clavicle Plates 2.7/3.5 consists of bone plates and bone screws, to be implanted by a surgeon in order to achieve an internal fixation of bone fragments typically after fractures, osteotomies. If the plates are used in conjunction with locking screws, a so called internal fixator will be realized (internal fixation).</p> <p>The aap LOQTEQ® Clavicle Plates 2.7/3.5 incorporate:</p> <ul style="list-style-type: none"><li>• LOQTEQ® Clavicle Shaft Plate (left and right)</li><li>• LOQTEQ® Superior Lateral Clavicle Plate (left and right)</li><li>• LOQTEQ® AcroPlate 3.5 (left and right) to be used with</li><li>• LOQTEQ® Cortical Screw 3.5, small head, T15, self-tapping</li><li>• LOQTEQ® Cortical Screw 2.7, small head, T8, self-tapping</li><li>• Cortical Screw 2.5, small head, T8, self-tapping</li><li>• Cortical Screw 3.5, small head, self tapping</li><li>• Set of Instruments aap LOQTEQ® Clavicle Plates 2.7/3.5</li></ul>
<b>Material:</b>	Implants are made of Ti6Al4V (ASTM F136 or ISO 5832-3)

**Indications:** The aap LOQTEQ® Clavicle Shaft Plate and aap LOQTEQ® Superior Lateral Clavicle Plate are intended for fixation of fractures, malunions, non-unions, and osteotomies of the clavicle.  
The aap LOQTEQ® AcroPlate is intended for fixation of lateral clavicle fractures and dislocations of the acromioclavicular joint.

**Substantial Equivalence** The Substantial Equivalence of the new device and the predicate device is based on similar intended use, design, functionality, components and materials in use.  
Documentation including mechanical testing to show the substantial equivalence has been provided with this submission.

**Performance Data (Non-Clinical and / or Clinical):** Non-clinical tests have been performed and show the substantial equivalence of the device.

Summary of Non-clinical tests:

Type of test:  
Customized 4-point-bending tests of bone plates, based on ASTM F382-99

Assessment of test results:  
Substantial equivalence with respect to the mechanical performance of the aap system could be stated due to the test results gained. The subject device is substantial equivalent, and whose performance meets the requirements of its pre-defined acceptance criteria and intended uses.

Documentation regarding the mechanical testing to show the substantial equivalence has been provided with this submission.