



May 23,2023

Suzhou Endophix Co., Ltd.  
Juan Wu  
Regulatory Affairs  
NO. 151, Fengli Road  
Suzhou, Jiangsu 215000  
China

Re: K230874

Trade/Device Name: Syntheface PEEK Interference Screw, Syntheface PEEK Screw Sheath  
Regulation Number: 21 CFR 888.3040  
Regulation Name: Smooth Or Threaded Metallic Bone Fixation Fastener  
Regulatory Class: Class II  
Product Code: MBI, HWC  
Dated: March 30, 2023  
Received: March 30, 2023

Dear Juan Wu:

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.

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 <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 <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

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

Sincerely,

  
**Sara S. Thompson -S**

For

Yu-Chieh Chiu, Ph.D.  
Acting 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)  
K230874

Device Name  
Syntheface PEEK Interference Screw

### Indications for Use (Describe)

The Syntheface PEEK Interference Screw is indicated for the reattachment of ligament, tendon, soft tissue, or bone to bone during cruciate ligament reconstruction surgeries of the knee. All screws with a diameter of 9mm or less are also indicated for use in the following procedures:

#### Knee

- ACL Repair
- PCL Repair
- Extra-capsular repair
  - Medial collateral ligament
  - Lateral collateral ligament
  - Posterior oblique ligament
- Patellar realignment and tendon repair
  - Vastus medialis obliquus advancement
- Iliotibial band tenodesis

#### Shoulder

- Capsular stabilization
  - Bankart repair
  - Anterior shoulder instability
  - SLAP lesion repair
  - Capsular shift or capsulolabral reconstruction
- Acromioclavicular separation repair
- Deltoid repair
- Rotator cuff tear repair
- Biceps tenodesis

#### Foot and Ankle

- Hallux valgus repair
- Medial or lateral instability repair/reconstruction
- Achilles tendon repair/reconstruction
- Midfoot reconstruction
- Metatarsal ligament/tendon repairs/reconstruction
- Bunionectomy
- Flexor Hallucis Longus (FLH)
- Tendon Transfer

#### Elbow, Wrist, and Hand

- Biceps tendon reattachment
- Ulnar or radial collateral ligament reconstruction
- Lateral epicondylitis repair
- Scapholunate ligament reconstruction
- Tendon Transfer
- Carpometacarpal Joint Arthroplasty

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-Carpal Ligament Reconstruction

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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)

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

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

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## Indications for Use

510(k) Number (if known)  
K230874

Device Name  
Syntheface PEEK Screw Sheath

Indications for Use (Describe)

The Syntheface PEEK Screw Sheath is indicated for use in combination with Syntheface PEEK Interference Screw for fixation of soft tissue to bone during cruciate ligament reconstruction.

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

### I Submitter

Device submitter: Suzhou Endophix Co., Ltd.  
 NO.151, Fengli Road, SIP, 215000 Suzhou, Jiangsu  
 Province  
 PEOPLE'S REPUBLIC OF CHINA

Primary contact person: Juan Wu  
 Regulatory Affairs Specialist  
 Phone: +86-17521559984  
 Email: Juan.Wu@microport.com

Date of preparation: 2023-03-30

### II Device

Trade Name of Syntheface PEEK Interference Screw, Syntheface PEEK  
 Device: Screw Sheath  
 Common Name: Screw, Screw Sheath  
 Classification Name: Fastener, Fixation, Non-degradable, Soft Tissue  
 Regulatory Class: II  
 Product Code: MBI, HWC  
 Review Panel: Orthopedic  
 Regulation Number: 888.3040

### III Predicate Devices

Trade Name: Biosure PK Interference Screw  
 Common Name: Screw, Fixation, Bone  
 Classification: Class II, 21 CFR 888.3040  
 Product Code: MBI  
 Premarket Notification: K083635  
 Manufacturer: Smith & Nephew Inc., Endoscopy Division

Trade Name: BIOSURE SYNC Tibial Fixation Device  
 Common Name: Screw, Fixation, Bone  
 Classification: Class II, 21 CFR 888.3040  
 Product Code: HWC, MBI

Premarket Notification: K093943  
 Manufacturer: Smith & Nephew Inc., Endoscopy Division

#### IV Device description

All Syntheface PEEK Interference Screws are non-absorbable. All interference screws are offered in a polyetheretherketone (PEEK) material. Syntheface PEEK Interference Screws are provided sterile, for single use only.

The Syntheface PEEK Interference Screws are composed of 6 different configurations ranging from 6mm to 11mm in diameter and 25mm in length.

The Syntheface PEEK Interference Screw can be used alone or be used in conjunction with the Syntheface PEEK Screw Sheath.

The Syntheface PEEK Screw Sheath shall be used in conjunction with the Syntheface PEEK Interference Screw. All Syntheface PEEK Screw Sheaths are non-absorbable, and are intra-tunnel devices used to secure soft tissue grafts to bone during cruciate ligament reconstruction procedures. The Syntheface PEEK Screw Sheath is a polyetheretherketone (PEEK) material implant for use with Syntheface PEEK Interference Screw. Syntheface PEEK Screw Sheaths are provided sterile, for single use only.

The models of Syntheface PEEK Interference Screws and Syntheface PEEK Screw Sheath are listed as below:

Trade name	Model
Syntheface PEEK Interference Screw	MS-2025PS-6
	MS-2025PS-7
	MS-2025PS-8
	MS-2025PS-9
	MS-2025PS-10
	MS-2025PS-11
Syntheface PEEK Screw Sheath	MS2025PW-6
	MS2025PW-8
	MS2025PW-10
	MS2025PW-12

#### V Indications for use

The Syntheface PEEK Interference Screw is indicated for the reattachment of ligament, tendon, soft tissue, or bone to bone during cruciate ligament reconstruction surgeries of the knee. All screws with a diameter of 9mm or less are also indicated for use in the following procedures:

##### Knee

- ACL Repair
- PCL Repair
- Extra-capsular repair
  - Medial collateral ligament
  - Lateral collateral ligament
  - Posterior oblique ligament
- Patellar realignment and tendon repair
  - Vastus medialis obliquus advancement
- Iliotibial band tenodesis

### **Shoulder**

- Capsular stabilization
  - Bankart repair
  - Anterior shoulder instability
  - SLAP lesion repair
  - Capsular shift or capsulolabral reconstruction
- Acromioclavicular separation repair
- Deltoid repair
- Rotator cuff tear repair
- Biceps tenodesis

### **Foot and Ankle**

- Hallux valgus repair
- Medial or lateral instability repair/reconstruction
- Achilles tendon repair/reconstruction
- Midfoot reconstruction
- Metatarsal ligament/tendon repairs/reconstruction
- Bunionectomy
- Flexor Hallucis Longus (FLH)
- Tendon Transfer

### **Elbow, Wrist, and Hand**

- Biceps tendon reattachment
- Ulnar or radial collateral ligament reconstruction
- Lateral epicondylitis repair
- Scapholunate ligament reconstruction
- Tendon Transfer
- Carpometacarpal Joint Arthroplasty
- Carpal Ligament Reconstruction

The Synthesface PEEK Screw Sheath is indicated for use in combination with Synthesface



PEEK Interference Screw for fixation of soft tissue to bone during cruciate ligament reconstruction.



## VI Comparison of technological characteristics with the predicate devices

Syntheface PEEK Interference Screws and Syntheface PEEK Screw Sheaths have similar technological characteristics and fundamental design as the predicate devices. The differences between the subject device and predicate device do not alter suitability of the proposed device for its intended use.

Table 5.1 Substantial equivalence discussion -Syntheface PEEK Interference Screw

Characteristics	Subject Device (Syntheface PEEK Interference Screw)	Predicate Device K083635, Biosure PK Interference Screw	Remarks
Product Code	MBI	MBI	Identical as predicate device.
Regulation Number	21 CFR 888.3040	21 CFR 888.3040	Identical as predicate device.
Regulatory Class	Class II	Class II	Identical as predicate device.
Indications for use	<p>The Syntheface PEEK Interference Screw is indicated for the reattachment of ligament, tendon, soft tissue, or bone to bone during cruciate ligament reconstruction surgeries of the knee. All screws with a diameter of 9mm or less are also indicated for use in the following procedures:</p> <p><b>Knee</b></p> <ul style="list-style-type: none"> <li>-ACL Repair</li> <li>-PCL Repair</li> <li>-Extra-capsular repair <ul style="list-style-type: none"> <li>• Medial collateral ligament</li> </ul> </li> </ul>	<p>The Smith &amp; Nephew BIOSURE PK Interference Screws are indicated for the reattachment of ligament, tendon, soft tissue, or bone to bone during cruciate ligament reconstruction surgeries of the knee. All screws with a diameter of 9mm or less are also intended for use in the following procedures:</p> <p><b>Knee</b></p> <ul style="list-style-type: none"> <li>-ACL Repairs</li> <li>-PCL Repairs</li> <li>-Extra-capsular repairs <ul style="list-style-type: none"> <li>• Medial collateral</li> </ul> </li> </ul>	Identical as predicate device.



	<ul style="list-style-type: none"> <li>• Lateral collateral ligament</li> <li>• Posterior oblique ligament</li> </ul> <p>-Patellar realignment and tendon repair</p> <ul style="list-style-type: none"> <li>• Vastus medialis obliquus advancement</li> </ul> <p>-Iliotibial band tenodesis</p> <p><b>Shoulder</b></p> <p>-Capsular stabilization</p> <ul style="list-style-type: none"> <li>• Bankart repair</li> <li>• Anterior shoulder instability</li> <li>• SLAP lesion repair</li> <li>• Capsular shift or capsulolabral reconstruction</li> </ul> <p>-Acromioclavicular separation repair</p> <p>-Deltoid repair</p> <p>-Rotator cuff tear repair</p> <p>-Biceps tenodesis</p> <p><b>Foot and Ankle</b></p> <p>-Hallux valgus repair</p> <p>-Medial or lateral instability repair/reconstruction</p> <p>-Achilles tendon repair/reconstruction</p> <p>-Midfoot reconstruction</p> <p>-Metatarsal ligament/tendon repairs/reconstruction</p> <p>-Bunionectomy</p> <p>-Flexor Hullucis Longus (FLH)</p> <p>-Tendon Transfer</p>	<p>ligament</p> <ul style="list-style-type: none"> <li>• Lateral collateral ligament</li> <li>• Posterior oblique ligament</li> </ul> <p>-Patellar realignment and tendon repairs</p> <ul style="list-style-type: none"> <li>• Vastus medialis obliquus advancement</li> </ul> <p>-Iliotibial band tenodesis</p> <p><b>Shoulder</b></p> <p>-Capsular stabilization</p> <ul style="list-style-type: none"> <li>• Bankart repair</li> <li>• Anterior shoulder instability</li> <li>• SLAP lesion repairs</li> <li>• Capsular shift or capsulolabral reconstructions</li> </ul> <p>-Acromioclavicular separation repairs</p> <p>-Deltoid repairs</p> <p>-Rotator cuff tear repairs</p> <p>-Biceps tenodesis</p> <p><b>Foot and Ankle</b></p> <p>-Hallux valgus repairs</p> <p>-Medial or lateral instability repairs/reconstructions</p> <p>-Achilles tendon repairs/reconstructions</p> <p>-Midfoot reconstructions</p> <p>-Metatarsal ligament/tendon repairs/reconstructions</p> <p>-Bunionectomy</p> <p>-Flexor Hullucis Longus (FLH)</p>	
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	<p><b>Elbow, Wrist, and Hand</b></p> <ul style="list-style-type: none"> <li>-Biceps tendon reattachment</li> <li>-Ulnar or radial collateral ligament reconstruction</li> <li>-Lateral epicondylitis repair</li> <li>-Scapholunate ligament reconstruction</li> <li>-Tendon Transfer</li> <li>-Carpometacarpal Joint Arthroplasty</li> <li>-Carpal Ligament Reconstruction</li> </ul>	<p>-Tendon Transfers</p> <p><b>Elbow, Wrist, and Hand</b></p> <ul style="list-style-type: none"> <li>-Biceps tendon reattachment</li> <li>-Ulnar or radial collateral ligament reconstructions</li> <li>-Lateral epicondylitis repair</li> <li>-Scapholunate ligament reconstruction</li> <li>-Tendon Transfers</li> <li>-Carpometacarpal Joint Arthroplasty</li> <li>-Carpal Ligament Reconstruction</li> </ul>	
Picture			Similar as predicate device.
Composition	Interference Screw	Interference Screw	Identical as predicate device.
Patient Contacting Material	PEEK 100% (Optima PEEK)	PEEK 100% (Optima PEEK)	Identical as predicate device.
Dimensional Verification	Interference screw diameter: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm Interference screw length: 25mm	Interference screw diameter: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm Interference screw length: 25mm	Substantially equivalent.
Sterilization	EO sterilization	Irradiation sterilization	Different, but subject device has a SAL of $10^{-6}$ and EO sterilization

			method had been validated.
Shelf-life	5 Years	5 Years	Identical as predicate device.
Single Use/Reuse	Single Use	Single Use	Identical as predicate device.
Operating Principle	The Syntheface PEEK Interference Screw is a fixation screw that fixes soft tissue such as ligaments, tendons, and the articular capsules to bone, and is used in orthopedic surgery.	The Biosure PK Interference Screw is a fixation screw that fixes soft tissue such as ligaments, tendons, and the articular capsules to bone, and is used in orthopedic surgery.	Identical as predicate device.
Environment of Use	Hospitals/clinics	Hospitals/clinics	Identical as predicate device.

Table 5.2 Substantial equivalence discussion -Syntheface PEEK Screw Sheath

<b>Characteristics</b>	<b>Subject Device (Syntheface PEEK Screw Sheath)</b>	<b>Predicate Device K093943, Biosure SYNC Tibial Fixation Device</b>	<b>Remarks</b>
Product Code	HWC, MBI	HWC, MBI	Identical as predicate device.
Regulation Number	21 CFR 888.3040	21 CFR 888.3040	Identical as predicate device.
Regulatory Class	Class II	Class II	Identical as predicate device.
Indications for use	The Syntheface PEEK Screw Sheath is indicated for use in combination with Syntheface PEEK Interference Screw for	The Smith & Nephew BIOSURE SYNC Tibial Fixation Device is indicated for use in combination with BIOSURE PK Screws for	Identical as predicate device.

	fixation of soft tissue to bone during cruciate ligament reconstruction.	fixation of soft tissue to bone during cruciate ligament reconstruction.																													
Picture			Similar as predicate device.																												
Composition	Screw Sheath	Screw Sheath	Identical as predicate device.																												
Patient Contacting Material	PEEK 100% (Optima PEEK)	PEEK 100% (Optima PEEK)	Identical as predicate device.																												
Dimensional Verification	Screw Sheath width: 9mm, 10.5mm, 12.6mm, 14.6mm; Screw Sheath height: 10.5mm, 12.2mm, 14.7mm, 17.8mm; Screw Sheath length: 34mm	BIOSURE SYNC Device width: 9.6mm, 11.1mm, 13.3mm, 15.3mm; BIOSURE SYNC Device height: 11mm, 12.5mm, 15.3mm, 18.3mm; BIOSURE SYNC Device length: 34mm	Substantially equivalent, and performance bench tests had been conducted to support the substantial equivalence.																												
Compatible screw size	<table border="1"> <thead> <tr> <th>Interference screw (X mm × 25 mm)</th> <th>Screw sheath (mm)</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>6</td> </tr> <tr> <td>7</td> <td>8</td> </tr> <tr> <td>8</td> <td>8</td> </tr> <tr> <td>9</td> <td>10</td> </tr> <tr> <td>10</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> </tr> </tbody> </table>	Interference screw (X mm × 25 mm)	Screw sheath (mm)	6	6	7	8	8	8	9	10	10	10	11	12	<table border="1"> <thead> <tr> <th>BIOSURE PK screw (X mm × 25 mm)</th> <th>BIOSURE SYNC Device (mm)</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>5-6</td> </tr> <tr> <td>7</td> <td>7-8</td> </tr> <tr> <td>8</td> <td>7-8</td> </tr> <tr> <td>9</td> <td>9-10</td> </tr> <tr> <td>10</td> <td>9-10</td> </tr> <tr> <td>11</td> <td>11-12</td> </tr> </tbody> </table>	BIOSURE PK screw (X mm × 25 mm)	BIOSURE SYNC Device (mm)	6	5-6	7	7-8	8	7-8	9	9-10	10	9-10	11	11-12	Similar as predicate device.
Interference screw (X mm × 25 mm)	Screw sheath (mm)																														
6	6																														
7	8																														
8	8																														
9	10																														
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BIOSURE PK screw (X mm × 25 mm)	BIOSURE SYNC Device (mm)																														
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8	7-8																														
9	9-10																														
10	9-10																														
11	11-12																														
Sterilization	EO sterilization	Irradiation sterilization	Different, but subject device has a																												

			SAL of $10^{-6}$ and EO sterilization method had been validated.
Shelf-life	5 Years	5 Years	Identical as predicate device.
Single Use/Reuse	Single Use	Single Use	Identical as predicate device.
Operation principle	Insert the screw sheath into the tibial tunnel. The sheath separates the graft strands and places them against the tunnel wall. Then the screw will be inserted into the center of the screw sheath to achieve the fixation of soft tissue to bone during cruciate ligament reconstruction	Insert the screw sheath into the tibial tunnel. The sheath separates the graft strands and places them against the tunnel wall. Then the screw will be inserted into the center of the screw sheath to achieve the fixation of soft tissue to bone during cruciate ligament reconstruction	Identical as predicate device.
Environment of Use	Hospitals/clinics	Hospitals/clinics	Identical as predicate device.

## VII Performance data

Non-clinical bench tests were conducted in support of the substantial equivalence determination.

### Material Standards

The material standards are the essential part to be complied with first, as it is the basis of manufacturing surgical implants.

We have complied with the following material standards:

ASTM F2026-17: Standard Specification for Polyetheretherketone (PEEK) Polymers for Surgical Implant Applications

### Biocompatibility testing

Biocompatibility of the Synthesface PEEK Interference Screw and Synthesface PEEK Screw Sheath were evaluated in accordance with ISO 10993-1: 2018 for the body contact category of “Implant medical device - Tissue/ bone” with a contact duration of “Long term (> 30 d)”.

#### **Bacterial endotoxin testing**

Bacterial endotoxins for the interference screw and screw sheath are determined using LAL testing to meet endotoxin limit specifications.

#### **Mechanical performance testing**

The following are the mechanical tests that have been performed on the Subject device and Predicate device:

1. Screw-in test
2. Pullout test
3. Fatigue test

#### **Sterilization and Shelf-life testing**

The sterilization method has been validated according to ISO 11135:2014 to a SAL of  $10^{-6}$ , which has thereby determined the routine control and monitoring parameters, 5-year shelf-life of the device has been evaluated by accelerated ageing test.

#### **Safety in MRI**

The Synthesface PEEK Interference Screw and Synthesface PEEK Screw Sheath are MR safe as the polyetheretherketone material is nonmetallic, nonconducting materials that do not contain ferromagnetic materials or any other metallic markers that can interfere with magnetic resonance imaging (MRI). There are no concerns with the performance of the devices in an MRI environment. These devices are labeled MR safe per ASTM F2503.

#### **VIII Conclusion**

The Synthesface PEEK Interference Screw and Synthesface PEEK Screw Sheath are substantially equivalent to the predicate devices. The non-clinical testing demonstrates that the devices are as safe, as effective and performs as well as the legally marketed devices.