K081578

510(k) Summary

SEP - 5 2008

Submitter Information: Pentax Medical Company
102 Chestnut Ridge Road
Montvale, New Jersey 07645-1856

Name of Device

Trade Name:	EB-1970UK, Ultrasound Video Bronchoscope
Classification Name:	Diagnostic Ultrasound Transducer (ITX) {892.1570}; track3, tier2 Bronchoscope and Accessories (EOQ) {874.4680}; teir2

Predicated Device(s) Information

Model, Description	Manufacturer	PMN #
BF type UC-160F, Ultrasound Brochofiberscope	Olympus	K070983
EB-1830T3, Video Bronchoscope	Pentax	K023376
EUB-5500 Diagnostic Ultrasound Scanner	Hitachi	K063518

Device Description:
The EB-1970UK, Ultrasound Video Bronchoscope, must be used with a Pentax Video Processor (a software controlled device) and must be used with an Ultrasound Scanner (a software controlled device). The endoscope has a flexible insertion tube, a control body, PVE umbilical connector, and ultrasound scanner umbilical connector. The PVE connector will be attached to the Video Processor and has connections for illumination, video signals, and suction. The ultrasound umbilical connector will be attached to the ultrasound scanner unit. The control body includes controls for up/ down angulation, suction control, video processor remote control buttons, and ports for manual balloon insufflation/ evacuation and accessory inlet. The endoscope contains light carrying bundles to illuminate the body cavity, a charge couple device (CCD) to collect endoscopic image data, and a radial array ultrasound transducer to collect ultrasonic image data. The instrument contains a working channel through which biopsy devices, or other devices, may be introduced. The video processor contains a lamp that provides white light focused at the endoscope PVE connector light guide prong. The endoscope light carrying bundles present the light to the body cavity and the CCD collects endoscopic image data. Image data and other screen display information are formatted and presented to the video outputs of the video processor for display. The ultrasound transducer delivers ultrasonic pulses, reflections of the pulses are received and the signals are passed to the ultrasound scanner for processing and display. The instrument is immersable (with the use of supplied cleaning accessories) except for the ultrasound scanner connector (as described in the endoscope operator manual cleaning instructions).

Intended Use:
The EB-1970UK, Ultrasound Video Bronchoscope, is intended to provide optical visualization of, ultrasonic visualization of, and therapeutic access to, the Pulmonary Track including but not restricted to the organs, tissues, and subsystems: Nasal Passage, Pharynx, Larynx, Trachea, Bronchial Tree (including access beyond the stem), and underlying areas. The instrument is introduced per orally when indications consistent with the requirement for procedure are observed in adult and pediatric patient populations.

Comparison to Predicated Device(s)
The submission for substantial equivalence included literature describing the system including; specifications, the identification of standard set components and optional accessories, tables to summarize the comparisons to the predicated device(s), and system performance testing. The submission for substantial equivalence is not based on an assessment of clinical performance data.

Prepared by: Paul Silva Signature: Paul Silva Date: 8-5-2008

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

SEP - 5 2008

Mr. Paul Silva
Regulatory Affairs Director
Pentax Medical Company
102 Chestnut Ridge Road
MONTVALE NJ 07645

Re: K081518
Trade/Device Name: EB-1970 Ultrasound Video Bronchoscope
Regulation Number: 21 CFR 874.4680
Regulation Name: Diagnostic ultrasound transducer
Regulatory Class: II
Product Code: EOQ and ITX
Dated: May 29, 2008
Received: June 9, 2008

Dear Mr. Silva:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and we 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). 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.

This determination of substantial equivalence applies to the following transducers intended for use with the EB-1970 Ultrasound Video Bronchoscope, as described in your premarket notification:

Transducer Model Number

EB-1970UK

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such 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); 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.

This determination of substantial equivalence is granted on the condition that prior to shipping the first device, you submit a postclearance special report. This report should contain complete information, including acoustic output measurements based on production line devices, requested in Appendix G, (enclosed) of the Center's September 30, 1997 "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers." If the special report is incomplete or contains unacceptable values (e.g., acoustic output greater than approved levels), then the 510(k) clearance may not apply to the production units which as a result may be considered adulterated or misbranded.

The special report should reference the manufacturer's 510(k) number. It should be clearly and prominently marked "ADD-TO-FILE" and should be submitted in duplicate to:

Food and Drug Administration
Center for Devices and Radiological Health
Document Mail Center (HFZ-401)
9200 Corporate Boulevard
Rockville, Maryland 20850

This letter will allow you to begin marketing your device as described in your premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus permits your device to proceed to market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html

If you have any questions regarding the content of this letter, please contact Paul Hardy at (240) 276-3666.

Sincerely yours,

Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure(s)

Diagnostic Ultrasound Indications For Use Statement

System: EUB-5500
Probe: EB-1970UK

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows

Clinical Application		Mode of Operation					
General (Track I only)	Specific (Track I & III)	B	M	PWD	CWD	Color Doppler	Amplitude Doppler
Ophthalmic							
Fetal Imaging and other	Fetal						
	Abdominal						
	Intra-operative (Spec.)						
	Intra-operative (Neuro.)						
	Laproscopic						
	Pediatric						
	Small Organ						
	Neonatal Cephalic						
	Adult Cephalic						
	Trans-rectal						
	Trans-vagina						
	Trans-urethral						
	Trans-esoph. (non-Card.)						
	Musculo-skel. (Convert.)						
	Musculo-skel. (Superfic.)						
	Intra-luminal						
	Endoscopy	N	N	N		N	N
Cardiac	Cardiac Adult						
	Cardiac Pediatric						
	Trans-esophageal (card.)						
	Other (spec.)						
Peripheral Vessel	Peripheral vessel						
	Other (Spec.)						

N = new application; P = previously cleared by FDA; E = added under Appendix E

(Please do not write below this line – continue on another page if needed)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)
Division of Reproductive, Abdominal and Radiological Devices
510(k) Number K081518

Prescription Use (Per 21 CFR 801.109)