

FUJIFILM SonoSite, Inc. % Prithul Bom Responsible Third Party Official Regulatory Technology Services, LLC 1000 Westgate Drive, Suite 510k SAINT PAUL MN 55114

May 8, 2020

Re: K200964

Trade/Device Name: Sonosite PX Ultrasound System

Regulation Number: 21 CFR 892.1550

Regulation Name: Ultrasonic pulsed doppler imaging system

Regulatory Class: Class II

Product Code: IYN, IYO, ITX, OIJ

Dated: April 9, 2020 Received: April 10, 2020

Dear Prithul Bom:

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 <u>Federal Register</u>.

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 and Part 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR

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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-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/training-and-continuing-education/cdrh-learn) 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">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) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

For

Thalia T. Mills, Ph.D.
Director
Division of Radiological Health
OHT7: Office of In Vitro Diagnostics
and Radiological Health
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: 06/03/2020 See PRA Statement below.

| 510(k) Number <i>(if known)</i> K200964 |
|--|
| Device Name |
| Sonosite PX Ultrasound System |
| |
| Indications for Use (Describe) |
| The Sonosite PX Ultrasound System is a general purpose ultrasound system intended for use by qualified physicians and healthcare professionals for evaluation by ultrasound imaging or fluid flow analysis of the human body. Specific clinical applications and exam types include: |

Adult cephalic
Cardiac Adult
Cardiac Pediatric
Fetal - OB/GYN
Musculo-skeletal (Conventional)
Musculo-skeletal (Superficial)
Ophthalmic
Pediatric
Peripheral Vessel
Small Organ (breast, thyroid, testicles, prostate)
Transvaginal
Needle Guidance

Abdominal

This device is indicated for Prescription Use Only.

The Sonosite PX Ultrasound System is intended to be used in medical practices, clinical environments, including Healthcare facilities, Hospitals, Clinics and clinical point-of-care for diagnosis of patients.

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.

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

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FORM FDA 3881 (8/14) Page 1 of 1 PSC Publishing Services (301) 443-6740 EF

1.3 INDICATIONS FOR USE The indications for use are listed in the FDA defined tables on the following pages.

Table 1.3-1: Diagnostic Ultrasound Indications for Use Form – Sonosite PX Ultrasound System

| System: | | Sonosite PX Ultrasound System | | | | | |
|--|---|-------------------------------|-------|------|----------------|--|---------------|
| Transducer: | N/A | | | | | | |
| Intended Use: | Diagnostic ultrasound imaging or fluid flow analysis of the human | | | | | | |
| intended Ose. | body as follows: | | | | | | Human |
| Clinical Application | , | | | | | | |
| Clinical Application | | 1 | ı | IVIO | | peration | |
| | | | | | Color | Combined | Other |
| | В | М | PWD | CWD | Doppler (C) | (Spec.) | (Spec.) |
| Ophthalmic | N | N | N | 0112 | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f |
| Fetal – OB/GYN | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f, h |
| Abdominal | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD; | c, e, f |
| Intra-operative (Abdominal organs and vascular) | | | | | | | |
| Intra-operative (Neuro.) | ļ | | | | | | |
| Laparoscopic | N | NI NI | NI NI | | NI NI | B+M; B+PWD; B+C; | h |
| Pediatric | N | N | N | | N | (B+C)+PWD; | b, c, e, f, h |
| Small Organ (breast, thyroid, testicles, prostate) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h |
| Neonatal Cephalic | | | | | | | |
| Adult Cephalic | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | f |
| Trans-rectal | | | | | | | |
| Trans-vaginal | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f, h |
| Trans-urethral | | | | | | | |
| Trans-esoph. (non-Card.) Musculo-skel. (Convent.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h |
| Musculo-skel. (Superfic.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h |
| Intra-luminal | | | | | | , | |
| Cardiac Adult | N | N | N | N | N | B+M; B+PWD; B+CWD; B+C; (B+C)+PWD; (B+C)+CWD | c, d, g, f |
| Cardiac Pediatric | N | N | N | N | N | B+M; B+PWD; B+CWD; B+C; (B+C)+PWD; (B+C)+CWD | c, d, g, f |
| Trans-esophageal (card.) | | | | | | , , | |
| Other (spec.) | 1 | | | | | | |
| Peripheral vessel | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h |
| Other (spec.) | L | | | | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

Additional Comments:

- b. Steep Needle Profiling (SNP) = Needle enhancement in B mode
- c. Tissue Harmonic Imaging (THI)
- d. Tissue Doppler Imaging (TDI)
- e. Multi-beam Imaging (SonoMB) in B-Mode
- f. Color Doppler includes Power/Velocity
 g. Color Doppler includes Velocity/Variance
- h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

a. B = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var)

Table 1.3-2: Diagnostic Ultrasound Indications for Use Form – I.19-5 MHz Transducer

| ble 1.3-2: Diagnostic Ultrasound Indications for Use Form – L19-5 MHz Transducer | | | | | | | | |
|--|-------|----------------------|-----------|-----------|-------------|--------------------------------|---------------|--|
| System: | | | X Ultras | | stem_ | | | |
| Transducer: | L19-5 | L19-5 MHz Transducer | | | | | | |
| Intended Use: | Diagr | nostic i | ultrasour | nd imagii | ng or fluid | I flow analysis of the | human | |
| | body | as foll | ows: | ŭ | Ū | · | | |
| Clinical Application | | | | Мо | de of Op | eration | | |
| | | | | | Color | | | |
| | | | | | Doppler | Combined | Other | |
| | В | M | PWD | CWD | (C) | (Spec.) | (Spec.) | |
| Ophthalmic | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | e, f | |
| Fetal | | | | | | | | |
| Abdominal | | | | | | | | |
| Intra-operative (Abdominal organs and vascular) | | | | | | | | |
| Intra-operative (Neuro.) | | | | | | | | |
| Laparoscopic | | | | | | | | |
| Pediatric | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD; | b, c, e, f, h | |
| Small Organ (breast, thyroid, testicles. prostate) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h | |
| Neonatal Cephalic | | | | | | | | |
| Adult Cephalic | | | | | | | | |
| Trans-rectal | | | | | | | | |
| Trans-vaginal | | | | | | | | |
| Trans-urethral | | | | | | | | |
| Trans-esoph. (non-Card.) | | | | | | | | |
| Musculo-skel. (Convent.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h | |
| Musculo-skel. (Superfic.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h | |
| Intra-luminal | | | | | | , , | | |
| Cardiac Adult | N | N | N | | N | B+M;B+PWD;B+C;(B+C)+ PWD | f | |
| Cardiac Pediatric | N | N | N | | N | B+M;B+PWD;B+C;(B+C)+ PWD | f | |
| Trans-esophageal (card.) | | | | | | | | |
| Other (spec.) | | | | | | | | |
| Peripheral vessel | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f, h | |
| Other (spec.) | | | | | | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

Additional Comments:

- a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Dopple (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var) b. Steep Needle Profiling (SNP) = Needle enhancement in B mode c. Tissue Harmonic Imaging (THI) d. Tissue Doppler Imaging (TDI) e. Multi-beam Imaging (SonoMB) in B-Mode f. Color Doppler includes Power/Velocity

- g. Color Doppler includes Velocity/Variance
- h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

Table 1.3-3: Diagnostic Ultrasound Indications for Use Form — I.15-4 MHz Transducer

| System: | | rasound Indications for Use Form – L15-4 MHz Transducer Sonosite PX Ultrasound System | | | | | | |
|--|---|---|------|------------|-------------|--------------------------------|------------|--|
| Transducer: | | L15-4 MHz Transducer | | | | | | |
| Intended Use: | Diagnostic ultrasound imaging or fluid flow analysis of the human | | | | | | human | |
| intended Ose. | _ | | | iu iiiiayi | ing or maic | i now analysis of the | Human | |
| | body | as foll | ows: | | | | | |
| Clinical Application | | | | Mod | de of Ope | eration | | |
| | | | | | Color | | | |
| | | | | | Doppler | Combined | Other | |
| | В | M | PWD | CWD | (C) | (Spec.) | (Spec.) | |
| Ophthalmic | | | | | | | | |
| Fetal | | | | | | | | |
| Abdominal | | | | | | | | |
| Intra-operative (Abdominal | | | | | | | | |
| organs and vascular) | | | | | 1 | | | |
| Intra-operative (Neuro.) | | | | | | | | |
| Laparoscopic | | | | | | | | |
| Pediatric | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD; | b, c, e, f | |
| Small Organ (breast, thyroid, testicles, prostate) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Neonatal Cephalic | | | | | | | | |
| Adult Cephalic | | | | | | | | |
| Trans-rectal | | | | | | | | |
| Trans-vaginal | | | | | 1 | | | |
| Trans-urethral | | | | | 1 | | | |
| Trans-esoph. (non-Card.) | | | | | 1 | | | |
| Musculo-skel. (Convent.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Musculo-skel. (Superfic.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Intra-luminal | | | | | | | | |
| Other (spec.) | _ | | | | | | | |
| Cardiac Adult | | | | | | | | |
| Cardiac Pediatric | | | | | 1 | | | |
| Trans-esophageal (card.) | | | | | 1 | | | |
| Other (spec.) | | | | | 1 | | | |
| Peripheral vessel | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Other (spec.) | | | | | 1 | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var)
b. Steep Needle Profiling (SNP) = Needle enhancement in B mode

- c. Tissue Harmonic Imaging (THI)
- d. Tissue Doppler Imaging (TDI)
 e. Multi-beam Imaging (SonoMB) in B-Mode
- f. Color Doppler includes Power/Velocity
- g. Color Doppler includes Velocity/Variance
 h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

Table 1.3-4: Diagnostic Ultrasound Indications for Use Form – I.12-3 MHz Transducer

| | | rasound Indications for Use Form – L12-3 MHz Transducer Sonosite PX Ultrasound System | | | | | | |
|--|------|---|------|----------|-------------------------|--------------------------------|------------------|--|
| System: | | | | | ystem | | | |
| Transducer: | | L12-3 MHz Transducer | | | | | | |
| Intended Use: | _ | | | nd imagi | ing or fluic | d flow analysis of the | human | |
| | body | as foll | ows: | | | | | |
| Clinical Application | | | | Mod | de of Ope | eration | | |
| | В | М | PWD | CWD | Color Doppler (C) | Combined (Spec.) | Other (Spec.) | |
| Ophthalmic | N | Z | N | | N | B+M; B+PWD, B+C; (B+C)+PWD | e, f | |
| Fetal | | | | | | | | |
| Abdominal | | | | | | | | |
| Intra-operative (Abdominal organs and vascular) | | | | | | | | |
| Intra-operative (Neuro.) | | | | | | | | |
| Laparoscopic | | | | | | | | |
| Pediatric | N | Z | N | | N | B+M; B+PWD; B+C; (B+C)+PWD; | b, c, e, f | |
| Small Organ (breast, thyroid, testicles, prostate) | N | Ν | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Neonatal Cephalic | | | | | | | | |
| Adult Cephalic | | | | | | | | |
| Trans-rectal | | | | | | | | |
| Trans-vaginal | | | | | | | | |
| Trans-urethral | | | | | | | | |
| Trans-esoph. (non-Card.) | | | | | | | | |
| Musculo-skel. (Convent.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Musculo-skel. (Superfic.) | N | Ν | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Intra-luminal | | | | | | | | |
| Cardiac Adult | | | | | | | | |
| Cardiac Pediatric | | | | | | | | |
| Trans-esophageal (card.) | | | | | | | | |
| Other (spec.) | | | | | | | | |
| Peripheral vessel | N | Ν | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Other (spec.) | | | | | | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

Additional Comments:

a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var)
b. Steep Needle Profiling (SNP) = Needle enhancement in B mode
c. Tissue Harmonic Imaging (THI)

- d. Tissue Doppler Imaging (TDI)
- e. Multi-beam Imaging (SonoMB) in B-Mode f. Color Doppler includes Power/Velocity

- g. Color Doppler includes Velocity/Variance
 h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

Table 1.3-5: Diagnostic Illtrasound Indications for Use Form C5-1 MHz Transducer

| | rasound Indications for Use Form – C5-1 MHz Transducer | | | | | | | |
|--|---|---------------------|----------|-----|-----------|-------------------------------|------------|--|
| System: | | | X Ultras | , | /stem | | | |
| Transducer: | C5-1 | C5-1 MHz Transducer | | | | | | |
| Intended Use: | Diagnostic ultrasound imaging or fluid flow analysis of the human | | | | | | human | |
| | _ | as foll | | Ū | • | • | | |
| Clinical Application | | | | Мо | de of Ope | eration | | |
| отпости при пости | | Color | | | | | | |
| | | | | | Doppler | Combined | Other | |
| | В | М | PWD | CWD | (C) | (Spec.) | (Spec.) | |
| Ophthalmic | | | | | | | | |
| Fetal – OB/GYN | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f | |
| Abdominal | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f | |
| Intra-operative (Abdominal | | | | | | | | |
| organs and vascular) Intra-operative (Neuro.) | | | | | | | | |
| Laparoscopic | 1 | | | | | | | |
| Laparoscopic | N | N | N | | N | B+M; B+PWD; B+C; | b, c, e, f | |
| Pediatric | 14 | IN | IN | | IN | (B+C)+PWD | D, C, E, 1 | |
| Small Organ (breast, thyroid, testicles. prostate) | | | | | | | | |
| Neonatal Cephalic | | | | | | | | |
| Adult Cephalic | | | | | | | | |
| Trans-rectal | | | | | | | | |
| Trans-vaginal | | | | | | | | |
| Trans-urethral | | | | | | | | |
| Trans-esoph. (non-Card.) | ļ | | ļ., | | | D 14 D D''' D 2 | | |
| Musculo-skel. (Convent.) | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Musculo-skel. (Superfic.) | | | | | | | | |
| Intra-luminal | | | | | † | | | |
| Cardiac Adult | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | f | |
| Cardiac Pediatric | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | f | |
| Trans-esophageal (card.) | | | | | | | | |
| Other (spec.) | | | | | | | | |
| Peripheral vessel | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | b, c, e, f | |
| Other (spec.) | | | | | | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

Additional Comments:

a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var)
b. Steep Needle Profiling (SNP) = Needle enhancement in B mode

- c. Tissue Harmonic Imaging (THI)
- d. Tissue Doppler Imaging (TDI)
 e. Multi-beam Imaging (SonoMB) in B-Mode
 f. Color Doppler includes Power/Velocity
- g. Color Doppler includes Velocity/Variance
- h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

Table 1.3-6: Diagnostic Ultrasound Indications for Use Form – P5-1 MHz Transducer

| System: | Sono | Sonosite PX Ultrasound System | | | | | | |
|--|------|--|-----|-----|-------------------------|--|------------------|--|
| Transducer: | | P5-1 MHz Transducer | | | | | | |
| Intended Use: | | Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows: | | | | | | |
| Clinical Application | | | | Mod | de of Op | eration | | |
| | В | М | PWD | CWD | Color Doppler (C) | Combined (Spec.) | Other (Spec.) | |
| Ophthalmic | | | | | | | | |
| Fetal – OB/GYN | N | Ν | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, g | |
| Abdominal | N | Ζ | N | | N | B+M; B+PWD; B+C; (B+C)+PWD; | c, e, f | |
| Intra-operative (Abdominal organs and vascular) Intra-operative (Neuro.) | | | | | | | | |
| Laparoscopic | | | | | | | | |
| Pediatric | | | | | | | | |
| Small Organ (breast, thyroid, testicles, prostate) | | | | | | | | |
| Neonatal Cephalic | | | | | | | | |
| Adult Cephalic | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | f | |
| Trans-rectal | | | | | | | | |
| Trans-vaginal | | | | | | | | |
| Trans-urethral | | | | | | | | |
| Trans-esoph. (non-Card.) | | | | | | | | |
| Musculo-skel. (Convent.) | | | | | | | | |
| Musculo-skel. (Superfic.) | | | | | | | - | |
| Intra-luminal | | | | | | | | |
| Cardiac Adult | Z | N | Ν | N | N | B+M; B+PWD; B+CWD; B+C; (B+C)+PWD; (B+C)+CWD | c, d, g, f | |
| Cardiac Pediatric | N | N | N | N | N | B+M; B+PWD; B+CWD; B+C; (B+C)+PWD; (B+C)+CWD | c, d, g, f | |
| Trans-esophageal (card.) | | | | | | | | |
| Other (spec.) | | | | | | | - | |
| Peripheral vessel | | | | | | | | |
| Other (spec.) | | | | | | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

Additional Comments:

- a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var)
- b. Steep Needle Profiling (SNP) = Needle enhancement in B mode c. Tissue Harmonic Imaging (THI) d. Tissue Doppler Imaging (TDI)

- e. Multi-beam Imaging (SonoMB) in B-Mode
- f. Color Doppler includes Power/Velocity
- g. Color Doppler includes Velocity/Variance
- h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

Table 1.3-7: Diagnostic Ultrasound Indications for Use Form – IC10-3 MHz Transducer

| lable 1.3-7: Diagnostic Ultrasound Indications for Use Form – IC10-3 MHz Transducer | | | | | | | |
|---|--|---------|-----------|-----------|-------------|-------------------------------|------------|
| System: | | | X Ultras | | stem | | |
| Transducer: | IC10- | -3 MHz | z Transdi | ucer | | | |
| Intended Use: | Diagr | nostic | ultrasour | nd imagir | ng or fluid | flow analysis of the I | numan |
| | body | as foll | ows: | | | · | |
| Clinical Application | | | | Mod | de of Op | eration | |
| | | | | | Color | | |
| | | | | | Doppler | Combined | Other |
| | В | M | PWD | CWD | (C) | (Spec.) | (Spec.) |
| Ophthalmic | | | | | | | |
| Fetal – OB/GYN | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f, h |
| Abdominal | | | | | | , | |
| Intra-operative (Abdominal organs and vascular) | | | | | | | |
| Intra-operative (Neuro.) | | | | | | | |
| Laparoscopic | | | | | | | |
| Pediatric | | | | | | | |
| Small Organ (breast, thyroid, testicles. prostate) | | | | | | | |
| Neonatal Cephalic | | | | | | | |
| Adult Cephalic | | | | | | | |
| Trans-rectal | | | | | | | |
| Trans-vaginal | N | N | N | | N | B+M; B+PWD; B+C; (B+C)+PWD | c, e, f, h |
| Trans-urethral | | | | | | | |
| Trans-esoph. (non-Card.) | ļ | | | | | | |
| Musculo-skel. (Convent.) | <u> </u> | | | | | | |
| Musculo-skel. (Superfic.) | | | | | | | |
| Intra-luminal | <u> </u> | | | | | | |
| Other (spec.) | | | | | | | |
| Cardiac Adult | | | | | | | |
| Cardiac Pediatric | | | | | | | |
| Trans-esophageal (card.) Other (spec.) | | | | | | | |
| Peripheral vessel | <u> </u> | | | | | | |
| Other (spec.) | | | | | | | |
| Other (Spec.) | <u> </u> | | | | | | |

N= new indication; P= previously cleared by FDA; E= added under this appendix

Additional Comments:

- a. 2D = B Mode; M= M Mode including simultaneous; PWD = Pulse Wave Doppler; CWD= Continuous Wave Doppler; C = Color Doppler (Velocity Color Doppler or CVD, Color Power Doppler or CPD, Variance or Var)
 b. Steep Needle Profiling (SNP) = Needle enhancement in B mode
 c. Tissue Harmonic Imaging (THI)

- d. Tissue Doppler Imaging (TDI)
 e. Multi-beam Imaging (SonoMB) in B-Mode
 f. Color Doppler includes Power/Velocity

- g. Color Doppler includes Velocity/Variance
 h. Includes imaging to assist in the placement of needles and catheters in vascular or other anatomical structures

ATTACHMENT 1 – Summary of Safety and Effectiveness

Summary of Safety and Effectiveness

In accordance with the requirements addressed by the Safe Medical Devices Act of 1990 and FDA's *Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers*, this Attachment provides the "510(k) Summary" of safety and effectiveness information to support the determination of substantial equivalence to currently-marketed predicate devices.

A "Certification" is also included herein.

510(k) Summary/Statement Certification

Sr. Regulatory Affairs Specialist

FUJIFILM SonoSite, Inc.

Re: 510(k) Premarket Notification Sonosite PX Ultrasound System CHECK ONLY ONE: Χ 1. 510(k) Summary. Attached is a summary of safety and effectiveness information upon which an equivalence determination could be based. 2. 510(k) Statement I certify that, in my capacity as of (company), I will make available all information included in this premarket notification on safety and effectiveness within 30 days of request by any person if the device described in the premarket notification submission is determined to be substantially equivalent. The information I agree to make available will be a duplicate of the premarket notification submission, including any adverse safety and effectiveness information, but excluding all patient identifiers, and trade secret and confidential commercial information, as defined in 21 CFR 20.61. Sudipla Chakraborli 02/18/2020 Sudipta Chakrabarti Date

510(K) Summary

This summary of safety and effectiveness is provided as part of this Premarket Notification in compliance with 21 CFR, Part 807, Subpart E, Section 807.92.

1) Submitter's name, address, telephone number, contact person:

FUJIFILM SonoSite, Inc. 21919 30th Drive SE Bothell, WA 98021-3904

Corresponding Official: Sudipta Chakrabarti

Sr. Regulatory Affairs Specialist

E-mail: sudipta.chakrabarti@fujifilm.com

 Telephone:
 (425) 951-1371

 Facsimile:
 (425) 951-1201

 Date prepared:
 August 30, 2019

Alternate Contact: Anoush Frankian

Sr. Manager, Regulatory Affairs

E-mail: anoush.frankian@fujifilm.com

Telephone: (425) 951-6824 **Facsimile:** (425) 951-1201

2) Name of the device, including the trade or proprietary name if applicable, the common or usual name, and the classification name, if known:

Common/ Usual Name

Diagnostic Ultrasound System with Accessories

Proprietary Name

Sonosite PX Ultrasound System

Classification Names

| Name | FR Number | Product Code |
|--|-----------|--------------|
| Ultrasonic Pulsed Doppler Imaging System | 892.1550 | IYN |
| Ultrasonic Pulsed Echo Imaging System | 892.1560 | IYO |
| Diagnostic Ultrasound Transducer | 892.1570 | ITX |
| Ultrasonic Pulsed Echo Imaging System | 892.1560 | OIJ |

3) Identification of the predicate or legally marketed device:

Primary Predicate: SonoSite Edge II Ultrasound System (K162045)

Secondary Predicate: SonoSite X-Porte Ultrasound System (K171437)

4) Device Description:

The Sonosite PX Ultrasound System is a full featured, general purpose, software controlled, diagnostic ultrasound system used to acquire and display high-resolution, real-time ultrasound data in 2D, M-Mode (including Simultaneous M-Mode), Pulsed Wave (PW) Doppler (including Pulsed Wave Tissue Doppler), Continuous Wave (CW) Doppler, Color Power Doppler (including Velocity Color Doppler), Tissue Harmonic Imaging or in a combination of these modes. The Sonosite PX Ultrasound System also includes needle guidance capability. The system is capable of working with two different types of needle guide brackets available, including 1) Fixed-angle, in-plane brackets where a pair of guidelines are generated that represent the path of the needle and 2) Transverse-angle, out-of-plane brackets (adjustable depths) where the guidelines appear down the center of the image. Each Sonosite PX transducer has an appropriate needle guide bracket kit to support needle guidance with the system.

5) Intended Use/Indications for Use:

The Sonosite PX Ultrasound System is a general purpose ultrasound system intended for use by qualified physicians and healthcare professionals for evaluation by ultrasound imaging or fluid flow analysis of the human body. Specific clinical applications and exam types include:

Abdominal
Adult Cephalic
Cardiac Adult
Cardiac Pediatric
Fetal – OB/GYN
Musculo-skeletal (Conventional)
Musculo-skeletal (Superficial)
Ophthalmic
Pediatric
Peripheral vessel
Small Organ (breast, thyroid, testicles, prostate)
Transvaginal
Needle Guidance

This device is indicated for Prescription Use Only.

The Sonosite PX Ultrasound System is intended to be used in medical practices, clinical environments, including Healthcare facilities, Hospitals, Clinics and clinical point-of-care for diagnosis of patients.

6) Technological Characteristics:

Sonosite PX, Edge II, and X-Porte Ultrasound Systems are Track 3 devices that employ the same fundamental scientific technology. A comparison table is provided below.

| Feature | Sonosite PX Ultrasound System (This submission) | SonoSite Edge II Ultrasound System (K162045) | SonoSite X-Porte Ultrasound System (K171437) |
|--|---|--|---|
| Intended Use | Diagnostic ultrasound imaging or fluid flow analysis of the human body | Diagnostic ultrasound imaging or fluid flow analysis of the human body | Diagnostic ultrasound imaging or fluid flow analysis of the human body |
| Indications for Use | Abdominal Adult Cephalic Cardiac Adult Cardiac Pediatric Fetal – OB/GYN Musculo-skeletal (Conventional) Musculo-skeletal (Superficial) Ophthalmic Pediatric Peripheral vessel Small Organ (breast, thyroid, testicles, prostate) Transvaginal Needle Guidance | Abdominal Adult Cephalic Cardiac Adult Cardiac Pediatric Fetal – OB/GYN Musculo-skeletal (Conventional) Musculo-skeletal (Superficial) Ophthalmic Pediatric Small Organ (breast, thyroid, testicles, prostate) Trans-vaginal Peripheral vessel Neonatal Cephalic Trans-Rectal Trans-esophageal (cardiac) | Abdominal Adult Cephalic Cardiac Adult Cardiac Pediatric Fetal – OB/GYN Musculo-skeletal (Conventional) Musculo-skeletal (Superficial) Ophthalmic Pediatric Small Organ (breast, thyroid, testicles, prostate) Trans-vaginal Peripheral vessel Neonatal Cephalic Trans-esophageal (cardiac) |
| Transducer Types | Linear Array Curved Array | Needle Guidance Linear Array Curved Linear Array | Needle Guidance Linear Array Curved Linear Array |
| | Phased Array Intracavitary | Phased Array Intracavitary Trans-esophageal | Phased Array Intracavitary Static Probes Trans-esophageal |
| Transducer Frequency | 1.0-19.0 MHz | 1.0 – 15.0 MHz | 1.0 – 15.0 MHz |
| Global Maximum Outputs/Worst Case Setting | Ispta.3: 607 mW/cm^2 (L12-3) TI Type: TIB (P5-1) TI Value: 4.87 (P5-1) MI: 1.72 (L12-3) Ipa.3@MI Max: 793 mW/cm^2 (L15-4) | I _{spta.3} : 598.9 (HFL50x) TI Type: TIB (rP19x) TI Value: 4.98 (rP19x) MI: 1.7 (rP19x) | I _{spta.3} : 629.3 (P21xp) TI Type: TIB (P21xp) TI Value: 4.0 (P21xp) MI: 1.7 (P21xp) I _{pa.3} @MI Max: 678 (L38xp) |

| Feature | Sonosite PX Ultrasound System (This submission) | SonoSite Edge II Ultrasound System (K162045) | SonoSite X-Porte Ultrasound System (K171437) |
|--|--|---|--|
| | | I _{pa.3} @MI Max: 776 (L38xi) | |
| Acoustic Output Display & FDA Limits Modes of Operation | Display Feature for Higher Outputs MI Output Display TI Output Display B-mode Grayscale Imaging | Display Feature for Higher Outputs MI Output Display TI Output Display B-mode Grayscale Imaging | Display Feature for Higher Outputs MI Output Display TI Output Display B-mode Grayscale Imaging |
| | Tissue Harmonic Imaging M-mode Simultaneous M-Mode | Tissue Harmonic Imaging M-mode Color M-Mode | Tissue Harmonic Imaging M-mode Simultaneous M-Mode |
| | Color Power Doppler Zoom Combination Modes | Color Power Doppler Zoom Combination Modes | Color Power Doppler Zoom Combination Modes Simultaneous PW Imaging |
| | Pulsed Wave (PW) Doppler Continuous Wave (CW) Doppler Speckle reduction algorithm SonoMB/MBe Image | Pulsed Wave (PW) Doppler Continuous Wave (CW) Doppler SonoHD2 Noise Reduction | Pulsed Wave (PW) Doppler Continuous Wave (CW) Doppler SonoHD2 Noise Reduction |
| | Compounding CW Doppler Velocity Color Doppler Tissue Doppler Imaging (TDI) | SonoMB/MBe Image Compounding Steered CW Doppler Velocity Color Doppler Tissue Doppler Imaging (TDI) | SonoMB/MBe Image Compounding Steered CW Doppler Velocity Color Doppler Tissue Doppler Imaging (TDI) |
| DICOM | DICOM 3.0 Store and Offline Media | DICOM 3.0 Store, Print, Modality Worklist, Perform Procedure Step (PPS), Storage Commitment | DICOM 3.0 Store, Print, Modality Worklist, Perform Procedure Step (PPS), Storage Commitment |
| #Transmit Channels #Receive Channels | 128 digital channels 128 digital channels | 128 digital channels 64 digital channels | 128 digital channels 64 digital channels (128 digital channels using Synthetic Aperture) |

| Feature | Sonosite PX Ultrasound System (This submission) | SonoSite Edge II Ultrasound System (K162045) | SonoSite X-Porte Ultrasound System (K171437) |
|---------------------------------|---|---|--|
| | | (128 digital channels using Synthetic Aperture) | |
| Patient Contact Materials | Silicone Rubber Polysulfone PolyVinylChloride (PVC) Silicone RTV Adhesive Silicone | Transducers: Acrylonitrile-butadien- styrene (ABS) Cycoloy Epoxy paste adhesive Polyethylene (PE) Ionomer Polyetheretherketone (PEEK) Polycarbonate Polysulfone Polyurethane Poly-Vinyl-Chloride (PVC) Silicone RTV Adhesive Silicone Rubber Urethane | Transducers: Acrylonitrile-butadien- styrene (ABS) Cycoloy Dow Medical Adhesive, Type A Epoxy paste adhesive Epoxy resin Polyetherimide Polyethylene (PE) lonomer Polyetheretherketone (PEEK) Polysulfone Polyurethane Poly-Vinyl-Chloride (PVC) Silicone RTV Adhesive Silicone Rubber Urethane |
| | | Needle Guides: Acetal copolymer Acrylonitrile-butadien- styrene (ABS) | Needle Guides: Acetal copolymer Acrylonitrile-butadien- styrene (ABS) |
| Product Safety Certification | AAMI/ANSI ES60601-1:2005 (R2012) IEC 60601-2- 37:2007+AMD1:2015 CAN/CSA-C22.2 No. 60601- 1:14 JSA JIS T 0601-1:2017, JSA JIS T 0601-2-37 IEC 61157:2007+AMD1:2013 NEMA UD 2-2004 (R2009) IEC 62359:2010+AMD1:2017 | AAMI/ANSI ES60601-1:2005 (R2012) IEC 60601-2-37: 2007 CAN/CSA C22.2 No. 60601-1:08 NEMA UD2-2004 IEC 62359:2010 | AAMI/ANSI ES60601- 1:2005 (R2012) IEC 60601-2-37: 2007 CAN/CSA C22.2 No. 601.1 JIS T 0601-1, JIS T 1507 CEI/IEC 61157 ANSI/AAMI EC53 NEMA UD2-2004 IEC 62359:2010 |

| Feature Sonosito DV Illtrasound SonoSito Edgo II SonoSito V Porto | | | | | |
|---|--|---|---|--|--|
| rediure | Sonosite PX Ultrasound System (This submission) | SonoSite Edge II Ultrasound System (K162045) | SonoSite X-Porte Ultrasound System (K171437) | | |
| EMC Compliance | IEC 60601-1-2:2014 CISPR 11:2015+AMD1:2016 +AMD2:2019 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 | AAMI / ANSI / IEC 60601-1- 2:2007(R)2012 CISPR 11, Group 1, Class A | IEC 60601-1-2:2007 CISPR 11 IEC 61000-4 pt 2-5 | | |
| DICOM | DICOM PS3.15 2019 | NEMA PS3.15 2003 | NEMA PS3.15 2003 | | |
| Airborne Equipment Standards | Not applied | RTCA/DO160 (section 21) | RTCA/DO160D (section 21) | | |
| System Characteristics | Beamformer 128/128 using SA (configurable) 12.1" Capacitive touch screen interface 15.6" LED LCD HD monitor 256 gray shades on LED LCD | Edge II: Beamformer 128/128 using SA (configurable) Hand held display and control Single 12.1" Liquid Crystal Display (LCD) 256 gray shades on LCD | X-Porte (stand configuration): Beamformer 128/128 using SA (configurable) 12.1" Capacitive touch screen interface 19" LED LCD HD monitor 256 gray shades on LED LCD | | |
| | 2 USB 3.0 4 USB 2.0 Stand Base Dimensions: 26.4" L x 21.2" W Stand Height (max): 64" (monitor up) Stand Height (min): 42.2" (monitor down) Weight: 149.35 lbs (fully configured w/ 3 transducers | Dimensions: 12.8"(W) x 12.1" (L) x 2.5"(H) Weight: 9.0 lbs | Stand Base Dimensions: 26.4" L x 21.2" W Stand Height (max): 64" (monitor up) Stand Height (min): 42.2" (monitor down) Weight: 149.35 lbs (fully configured w/ 3 transducers | | |
| A1 510(k) Si | and stand base Weight: 32.80 lbs (w/ 1 transducer) | | Page 9 of 12 | | |

| | | System operates via | System operates via |
|--------------|--|--|--|
| | System operates via battery or | battery or AC power | battery or AC power |
| | AC power | Battery life: 1.5 - 4 | Battery life: 1 hour operational - 3 days idle |
| | Battery life: 1 hour imaging - 10 days idle | hour operation per Charge | operaneman e daye rare |
| | To days idle | Charge | |
| | | | |
| | Input: 100 – 240 VAC, 50/60 Hz | 100 – 240V options, 50/60 Hz, 15VDC | Input: 100 – 240 VAC, 50/60 Hz |
| | Output 1: 26.7VDC output, 220 | Output | Output 1: 24VDC output, 275 |
| | W max | | W max |
| | System on stand: Input: 100 – 240 VAC, 50/60 Hz | | Output 2: 100-240VAC, 50-60 Hz (AC Printer, DC |
| | Output 1: 26.7VDC output, 220 | | Printer) |
| | W max | | |
| | Output 2: 100-240VAC, 50-60 | | |
| | Hz (AC Printer) | Mada and Add t | |
| | (XOTTIME!) | Various obstetrical, cardiac, volume, M- mode, | Various obstetrical, |
| | Various obstetrical, cardiac, | PW and CW Doppler | PW and CW Doppler |
| | volume, M-mode, PW and | measurement and | measurement and |
| | CW Doppler measurement and calculation packages | calculation packages | calculation packages |
| | and daloulation puolitages | | |
| | | ECG acquisition and display capabilities | ECG acquisition and display capabilities CW/PW |
| | | CW/PW Doppler Audio | Doppler Audio Spectral |
| | | Spectral Doppler Audio and image storage on | Doppler Audio and image |
| | | removable media | storage on removable media Measurement on |
| | | | Recalled Images. |
| | | Wireless 802.11(b/g/n) | Wireless 802.11 (a/b/g/n) |
| | Wireless 802.11 (a/b/g/n) support for image transfer | support for image transfer | support for image transfer |
| | - | Additional system | |
| | Additional system features: | features: | X-Porte (desktop configuration): |
| | Additional system features: Assisted Cardiac Output | Assisted Cardiac Output (ACO) - | comiguration). |
| | (ACO) – Available on | Available on Edge II system | Same software |
| | Sonosite PX system | | features/capabilities as the stand configuration. Does |
| | | | not have the stand, touch |
| | | | panel interface, DVR, and mobile power unit. |
| | | | mobile power unit. |
| | | | Weight: 32.80 lbs (w/ 1 transducer) |
| | | | iiaiisuucei) |
| | | | AC power only. |
| | | | 100 – 240V options, 50/60 Hz |
| 510(k) Track | Track 3 | Track 3 | Track 3 |

7) <u>Determination of Substantial Equivalence:</u>

<u>Summary of Technological Comparison to Predicate Devices:</u>

Sonosite PX Ultrasound System is enhanced implementation of previous FDA Cleared predicate devices Sonosite Edge II Ultrasound System (K162045) and Sonosite X-Porte Ultrasound System (K171437). The primary function of Sonosite PX Ultrasound System and the predicate devices is diagnostic ultrasound imaging or fluid flow analysis of the human body. The Sonosite PX Ultrasound System employs the same fundamental scientific characteristics as the currently marketed predicate devices Sonosite Edge II Ultrasound System (K162045) and Sonosite X-Porte Ultrasound System (K171437). The Sonosite PX Ultrasound device and predicates share indications for use, share modes of operation and have biosafety equivalence. The primary differences are a new form factor to the control panel, which now includes both touch and tactile control panel. Display size on the Sonosite PX is slightly different than those on the predicate devices, but performance evaluation has deemed the screen size not to impact intended use and image quality of the system. Additionally, the Sonosite PX Ultrasound System has a higher transducer frequency range compared to the predicate devices. Where differences are noted with respect to transducer frequency, between the range for the subject device and the predicates, testing to applicable performance standards demonstrates that it does not introduce any new safety or effectiveness concerns. The Sonosite PX Ultrasound system remains substantially unchanged from the predicate with respect to its intended use and performance claims.

Summary of Non-Clinical Tests:

The Sonosite PX Ultrasound System has been evaluated for electrical, thermal, mechanical, and EMC safety. Additionally, cleaning/disinfection, biocompatibility, and acoustic output have been evaluated, and the device has been found to conform to applicable mandatory medical device safety standards. Assurance of quality was established by employing the following elements of product development: Design Phase Reviews, Risk Assessment, Requirements Development, System and Software Verification, Hardware Verification, Safety Compliance Verification, Clinical Validation. All patient contact materials are biocompatible.

The Sonosite PX Ultrasound System is designed to comply with the following FDA recognized standards.

| Reference No. | Recognition | Title | |
|----------------|------------------|--|--|
| ISO 10993-1 | No. 2-220 | AAMI ANSI ISO 10993-1:2009/(R) 2013, Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process. | |
| IEC 60601-1 | 19-4 | AAMI / ANSI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated Text) Medical electrical equipment Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005, MOD) | |
| IEC 60601-1-2 | 19-8 | ANSI AAMI IEC 60601-1-2:2014 Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance Collateral Standard: Electromagnetic disturbances Requirements and tests | |
| IEC 60601-1-6 | 5-89 | IEC 60601-1-6 Edition 3.1 2013-10 Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability | |
| IEC 60601-2-37 | 12-293 | IEC 60601-2-37 Edition 2.1 2015 Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment | |
| IEC 62304 | 13-79 | ANSI AAMI IEC 62304:2006/A1:2016 Medical device software - Software life cycle processes [Including Amendment 1 (2016) | |
| ISO 14971 | 5-40 | ANSI AAMI ISO 14971:2007/(R) 2010 - Medical devices - Application of risk management to medical devices | |
| NEMA UD 2-2004 | 12-105 | NEMA UD 2-2004 (R2009) Acoustic Output Measurement Standard for Diagnostic Ultrasound Equipment Revision 3 | |

Summary of Clinical Tests:

The Sonosite PX Ultrasound System and transducers, subject of this submission, did not require clinical studies to support the determination of substantial equivalence.

Conclusion

Intended uses and other key features are consistent with traditional clinical practice and FDA guidance. The Sonosite PX Ultrasound device and predicates conform to applicable electromedical device safety standards with compliance verified through independent evaluation. The Sonosite PX Ultrasound device and predicates meet FDA requirements for Track 3 devices, share indications for use, have biosafety equivalence and are manufactured using the same ISO 13485, 21CFR820 quality system. FUJIFILM SonoSite, Inc. believes that the Sonosite PX Ultrasound System is substantially equivalent with regard to safety and effectiveness to the predicate devices.