DEC 16 2005 K053435

Attachment B:

Summary of Safety and Effectiveness Prepared in accordance with 21 CFR Part 807.92(c).



GE Healthcare

General Electric Company P.O. Box 414, Milwaukee, WI 53201

Section a):

1.	Submitter:	GE Medical Systems, Ultrasound and Primary Care Diagnostics, LLC PO Box 414 Milwaukee, W1 53201
	Contact Person:	Allen Schuh, Manager, Safety and Regulatory Engineering Telephone: 414-647-4385; Fax: 414-647-4090
	Date Prepared:	December 8, 2005
2.	<u>Device Name</u> :	Voluson <i>i</i> Diagnostic Ultrasound System Ultrasonic Pulsed Echo Imaging System, 21 CFR 892.1560, 90-IYO Ultrasonic Pulsed Doppler Imaging System, 21 CFR 892.1550, 90-IYN Diagnostic Ultrasonic Transducer, 21 CFR 892.1570, 90-ITX

3. <u>Marketed Device</u>: Voluson 730 Pro/Expert Diagnostic Ultrasound - K003525, K032620, K041688 A device currently in commercial distribution.

4. <u>Device Description</u>: The Voluson *i* is a compact, general purpose diagnostic ultrasound system which consists of a portable console approximately 358 mm wide, 313 mm deep and 59 mm high when closed. It has digital acquisition, processing and display capability via a notebook-like user interface consisting of a computer keyboard, specialized controls and 15 inch color LCD display. This modification will provide users with enhanced convenience and portability.

5. <u>Indications for Use</u>: The device is intended for use by a qualified physician for ultrasound evaluation of Fetal/OB; Abdominal (including GYN, pelvic and infertility monitoring/follicle development); Pediatric; Small Organ (breast, testes, thyroid etc.); Neonatal and Adult Cephalic; Cardiac (adult and pediatric); Musculo-skeletal Conventional and Superficial; Peripheral Vascular; Transvaginal (TV); Transrectal (TR); and Intraoperative (abdominal, PV and neurological).

6. <u>Comparison with Predicate Devices</u>: With respect to features and applications, the Voluson *i* is of a comparable type and substantially equivalent to the unmodified Voluson 730 Pro/Expert and also to the GE LOGIQe in terms of portability. They have the same technological characteristics, key safety and effectiveness features, and similar physical design, construction, and materials.

Section b):

1. <u>Non-clinical Tests</u>: The device has been evaluated for acoustic output, biocompatibility, cleaning and disinfection effectiveness as well as thermal, electrical and mechanical safety, and has been found to conform with applicable medical device safety standards.

2. Clinical Tests: None required.

3. <u>Conclusion</u>: Intended uses and other key features are consistent with traditional clinical practice, FDA guidelines, and established methods of patient examination. The design and development process of the manufacturer conforms with 21 CFR 820, ISO 9001and ISO 13485 quality systems. The device conforms to applicable medical device safety standards and compliance is verified through independent evaluation with ongoing factory surveillance. Diagnostic ultrasound has accumulated a long history of safe and effective performance. Therefore, it is the opinion of GE Healthcare that the GE Voluson *i* Diagnostic Ultrasound is substantially equivalent with respect to safety and effectiveness to devices currently cleared for market.

DEPARTMENT OF HEALTH & HUMAN SERVICES

DEC 16 2005

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Mr. Allen Schuh
Manager, GE Ultrasound Product Safety

and Regulatory Engineering
General Electric Company
GE Medical Systems, Ultrasound and Primary Care Diagnostics, LLC

4855 West Electric Avenue
WEST MILWAUKEE WI 53219

Re: K053435

Trade Name: GE Voluson *i* Ultrasound System Regulation Number: 21 CFR 892.1550 Regulation Name: Ultrasonic pulsed doppler imaging system Regulation Number: 21 CFR 892.1560 Regulation Name: Ultrasonic pulsed echo imaging system Regulation Number: 21 CFR 892.1570 Regulation Name: Diagnostic ultrasonic transducer Regulatory Class: II Product Code: IYN, IYO, and ITX Dated: December 8, 2005 Received: December 9, 2005

Dear Mr. Schuh:

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 GE Voluson *i* Ultrasound System, as described in your premarket notification:

Transducer Model Number

<u>12L-RS</u> PA2-5-RS ÷

E8C-RS RAB2-5-RS RSP6-16-RS <u>RIC5-9-RS</u> 4C-RS

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 <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); 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

Page 3 – Mr. Schuh

Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <u>http://www.fda.gov/cdrh/industry/support/index.html</u>

If you have any questions regarding the content of this letter, please contact REVIEWER at (301) 594-1212.

Sincerely yours,

Mancy C Brogdon Nancy C. Brogdon

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 Form

GE Voluson *i* Ultrasound System

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

	Mode of Operation											
Clinical Application Anatomy/Region of Interest	В	М	PW Doppler	CW Doppler	Color Doppler	Color M Doppler		Combined Modes	Harmonic Imaging	Coded Pulse	Other [Notes]	
Ophthalmic			<u> </u>	 								
Fetal / Obstetrics ^[7]	Ρ	<u>P</u>	P	· · · · · · · · · · · · · · · · · · ·	P	P	P	P	P	P	[5,6]	
Abdominal ^[1]	Р	Р	Р	P	P	<u>Р</u>	Р	Р	P	<u>Р</u>	[5,6]	
Pediatric	Р	P	P	ļ	P	Р	<u>Р</u>	<u>Р</u>	<u>Р</u>	P	[5,6]	
Small Organ ^[2]	Р	Р	Р		Р	P	<u>Р</u>	P	P	<u>Р</u>	[5,6]	
Neonatal Cephalic	Р	Р	Р		Р	<u>P</u>	Р	P	Р	Р	[5]	
Adult Cephalic	Ρ	Р	Р	Р	P	Р	Р	<u>Р</u>	<u>Р</u>	<u>Р</u>		
Cardiac ^[3]	P	Р	Р	Р	P	P	Р	P	P	P	[5]	
Peripheral Vascular	Р	P	Р		P	Р	P	P	<u>Р</u>	Р	[5,6]	
Musculo-skeletal Conventional	Р	Р	Р		Р	Р	Р	P	Р	P	[5,6]	
Musculo-skeletal Superficial	Р	Р	Р		Р	P	Р	P	P	P	[5,6]	
Other					ļ			ļ		<u> </u>		
Exam Type, Means of Access					ļ		<u> </u>	ļ	<u> </u>	<u> </u>		
Transesophageal		ļ		<u> </u>	ļ					<u> </u>		
Transrectal ^[8]	Р	Р	Р		Р	P	Р	Р	<u>Р</u>	P	[5,6]	
Transvaginal	Р	P	Р		Р	<u> </u>	P	P	P	<u>P</u>	[5,6]	
Transuretheral		<u> </u>		<u> </u>	ļ	<u> </u>	_ _	<u> </u>		<u> </u>		
Intraoperative	Р	Р	Р	<u> </u>	Р	Р	P	P	Р	P		
Intraoperative Neurological	P	P	Р	<u> </u>	Р	<u>Р</u>	Р	<u> </u>	P	<u>Р</u>		
Intravascular						<u> </u>	_ _	<u> </u>	+	<u> </u>		
Laparoscopic					<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	

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

Notes: [1] Abdominal includes renal, GYN/Pelvic

[2] Small organ includes breast, testes, thyroid, salivary gland, lymph nodes, pediatric and neonatal patients [3] Cardiac is Adult and Pediatric.

[5] 3D/4D Imaging Mode

[6] Includes imaging of guidance of biopsy (2D/3D/4D)

[7] Includes infertility monitoring of follicle development

[8] Includes urology/prostate

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Diagnostic Ultrasound Indications for Use Form

GE Voluson i with 12L-RS Transducer

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

					Mode	of Ope		·	_		
Clinical Application Anatomy/Region of Interest	В	M	PW Doppler	CW Doppler	Color Doppler	Color M Doppler	Power Doppler	Combined Modes	Harmonic Imaging	Coded Pulse	Other [Notes)
Ophthalmic			ļ	 							
Fetal / Obstetrics ^[7]			<u> </u>		╞───			┼───			<u> </u>
Abdominal ^[1]			ļ		ļ	<u> </u>		N	N	N	[6]
Pediatric	N	N	N	┼	N N	N	N	N	N	N	[6]
Small Organ ^[2]	N	<u>N</u>	N		<u>N</u>	<u>N</u>	N	<u> </u>		<u> </u>	+
Neonatal Cephalic			ļ		┼	┼		┨			1
Adult Cephalic			<u> </u>		┼──		┼	+	+		1
Cardiac ^[3]					<u> </u>		N	N	N	N	[6]
Peripheral Vascular	<u>N</u>	N	<u>N</u>		<u>N</u>	<u>N</u>	N	N	N	N	16]
Musculo-skeletal Conventional	<u>N</u>	N	<u>N</u>		N	N	N	N	N N	N	[6]
Musculo-skeletal Superficial	N	N	<u>N</u>		<u> </u>	<u>N</u>	- <u>-</u>	<u> </u>	<u> </u>		
Other	<u> </u>			<u> </u>							
Exam Type, Means of Access	<u> </u>			- •			+		1	+	
Transesophageal	L	<u> </u>				-+				+	
Transrectal		<u> </u>									
Transvaginal	<u> </u>	+				+	+			<u>†</u> —–	
Transuretheral		+					N	N	N	N	
Intraoperative	<u>N</u>	<u>N</u>	<u>N</u>		N	N		N N	N	N	
Intraoperative Neurological	<u>N</u>	N	<u> </u>		<u>N</u>						_
Intravascular					_+					_	
Laparoscopic	1	1	ł	1	l	i		_!	_ <u>_</u> =		

Laparoscopic

N = new indication; P = previously cleared by FDA; E = added under Appendix E Notes: [2] Small organ includes breast, testes, thyroid, salivary gland, lymph nodes, pediatric and neonatal patients

[6] Includes imaging of guidance of biopsy (2D) [*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Diagnostic Ultrasound Indications for Use Form

GE Voluson *i* with PA2-5-RS Transducer

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

	Mode of Operation											
Clinical Application Anatomy/Region of Interest	В	М	PW Doppler	CW Doppler	Color Doppler	Color M Doppler			Harmonic Imaging	Coded Pulse	Other [Notes)	
Ophthalmic			ļ				<u> </u>				<u> </u>	
Fetal / Obstetrics ^[7]					<u> </u>							
Abdominal ⁽¹⁾	P	P	P	P	P	P	P	Р	P	P		
Pediatric						<u> </u>				<u> </u>		
Small Organ ^[2]		ļ	<u> </u>	ļ	ļ	<u> </u>	ļ				<u> </u>	
Neonatal Cephalic	. <u>.</u>			ļ				<u> </u>		P		
Adult Cephalic	P	Р	<u>P</u>	P	P	<u>Р</u>	P	P	<u>Р</u>	<u>+</u>	+	
Cardiac ^[3]	P	P	Р	P	P	<u>Р</u>	P	<u> </u>	P	P		
Peripheral Vascular		ļ				<u> </u>			┨────			
Musculo-skeletal Conventional	 .	<u> </u>		<u> </u>		<u> </u>		<u> </u>		╄──		
Musculo-skeletal Superficial		ļ		ļ						<u>+</u>	+	
Other ^[4]		<u> </u>					<u> </u>	 		<u> </u>		
Exam Type, Means of Access	. <u> </u>	 			<u></u>			<u> </u>	<u> </u>		+	
Transesophageal		<u> </u>						┼───				
Transrectal		<u> </u>				<u> </u>				+		
Transvaginal		<u> </u>			<u> </u>				<u>+</u>			
Transuretheral	L	<u> </u>					+	-	-{			
Intraoperative	ļ											
Intraoperative Neurological	ļ	ļ					+					
Intravascular	<u> </u>	<u> </u>	_								+ -	
Laparoscopic	1		[1					<u> </u>	<u> </u>	

N = new indication; P = previously cleared by FDA; E = added under Appendix E Laparoscopic 1

Notes: [1] Abdominal includes renal, GYN/Pelvic

[3] Cardiac is Adult and Pediatric.

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Diagnostic Ultrasound Indications for Use Form

GE Voluson i with E8C-RS Transducer

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

					Mode	e of Ope	eration				·
Clinical Application Anatomy/Region of Interest	В	М	PW Doppler	CW Doppler	Color Doppler	Color M Doppler	Power Doppler		Harmonic Imaging	Coded Pulse	Other [Notes)
Ophthalmic			<u> </u>		<u> </u>						
Fetal / Obstetrics ^[7]	N	N	<u>N</u>		N	N	<u>N</u>	N	N	<u>N</u>	[6]
Abdominal ^[1]					┟						<u> </u>
Pediatric		L									
Smali Organ ^[2]			ļ	ļ	ļ	ļ					
Neonatal Cephalic	<u>N</u>	N	N		N	N	N	N	<u>N</u>	N	<u> </u>
Adult Cephalic				<u> </u>		<u> </u>		 	<u> </u>		
Cardiac ^[3]			-			<u> </u>			 		
Peripheral Vascular		ļ									
Musculo-skeletal Conventional		L					<u> </u>			<u> </u>	
Musculo-skeletal Superficial					<u> </u>		┨			+	┨
Other			<u> </u>					<u> </u>			
Exam Type, Means of Access		ļ					╄				
Transesophageal		<u> </u>			<u> </u>			<u>+</u>		+	[6]
Transrectal	N	N	<u>N</u>		<u>N</u>	N	N	N	N	N	16
Transvaginal	N	N	<u>N</u>		<u>N</u>	<u>N</u>	N	N	N		10
Transuretheral		ļ		_						+	
Intraoperative		ļ						+			
Intraoperative Neurological	ļ				<u></u>						+
Intravascular				<u> </u>			+	+			
Laparoscopic						<u> </u>			<u> </u>	<u> </u>	<u> </u>

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

Notes: [6] Includes imaging of guidance of biopsy (2D)

[7] Includes infertility monitoring of follicle development

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Diagnostic Ultrasound Indications for Use Form

GE Voluson *i* with RAB2-5-RS Transducer

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

		Mode of Operation												
Clinical Application Anatomy/Region of Interest	В	М	PW Doppler	CW Doppler	Color Doppler	Color M Doppler	Power Doppler		Harmonic Imaging	Coded Pulse	Other [Notes)			
Ophthalmic			ļ				 							
Fetal / Obstetrics ^[7]	<u>P</u>	Р	<u> </u>	ļ	<u>P</u>	Р	P	P	P	P	[5,6]			
Abdominal ^[1]	<u>P</u>	Р	<u>P</u>		Р	<u>Р</u>	Р	P	P	Р	[5,6]			
Pediatric						 		<u> </u>						
Small Organ ^[2]			<u> </u>	ļ	<u> </u>	 			<u> </u>					
Neonatal Cephalic					<u> </u>									
Adult Cephalic		ļ			ļ		<u> </u>							
Cardiac ^[3]			ļ	ļ		┨────			ł	<u> </u>				
Peripheral Vascular	_	<u> </u>	<u> </u>	<u> </u>	·			<u> </u>	<u> </u>		100			
Musculo-skeletal Conventional	Р	P	Р	ļ	Р	<u> </u>	P	P	P	<u>Р</u>	[5,6]			
Musculo-skeletal Superficial				<u> </u>			<u> </u>		<u> </u>	<u> </u>	┨			
Other		ļ	<u> </u>											
Exam Type, Means of Access		ļ		<u> </u>	<u> </u>	<u> </u>								
Transesophageal		ļ		<u> </u>					<u> </u>					
Transrectal		<u> </u>			<u> </u>					_──				
Transvaginal		<u> </u>		<u> </u>							+			
Transuretheral		<u> </u>								+				
Intraoperative		<u> </u>		<u> </u>			·				+			
Intraoperative Neurological	 			<u> </u>	+									
Intravascular		<u> </u>						<u>+</u>						
Laparoscopic	Ì								<u> </u>	<u> </u>	<u> </u>			

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

Notes: [1] Abdominal includes renal, GYN/Pelvic

[5] 3D/4D Imaging Mode

[6] Includes imaging of guidance of biopsy (3D/4D)

[7] Includes infertility monitoring of follicle development

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Diagnostic Ultrasound Indications for Use Form

GE Voluson *i* with RSP6-16-RS Transducer

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

		Mode of Operation											
Clinical Application Anatomy/Region of Interest	В	M	PW Doppler	CW Doppler	Color Doppler	Color M Doppler	Power Doppler		Harmonic Imaging	Coded Pulse	Other [Notes)		
Ophthalmic				_									
Fetal / Obstetrics ^[7]			ļ										
Abdominal ^[1]				ļ	 						(5 0)		
Pediatric	E	E	E	ļ	<u> </u>	E	E	E	E	E	[5,6]		
Small Organ ^[2]	E	ε	E	 	E	E	E	E	E	<u>E</u>	[5,6]		
Neonatal Cephalic				<u> </u>		<u> </u>	ļ	<u> </u>	ļ				
Adult Cephalic			<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				
Cardiac ^[3]				ļ		ļ				<u> </u>	1.5.0		
Peripheral Vascular	E	E	E	<u> </u>	E	E	E	<u> </u>	E	E	[5,6]		
Musculo-skeletal Conventional	8	E	E	<u> </u>	E	<u> </u>	E	E	E	E_	[5,6]		
Musculo-skeletal Superficial	Е	E	E	<u> </u>	E	E	E	E	E	E	[5,6]		
Other				_ _		<u> </u>	∔		<u> </u>		<u> </u>		
Exam Type, Means of Access		<u> </u>		<u> </u>		<u> </u>							
Transesophageal		<u> </u>		ļ		<u> </u>	ļ						
Transrectal		ļ	<u> </u>	ļ	·	1			<u> </u>	<u> </u>			
Transvaginal	 	ļ			<u> </u>	<u> </u>	<u> </u>						
Transuretheral					╞╴──		<u> </u>	<u> </u>		<u>+</u>	+		
Intraoperative	E	E	E		<u> </u>	E	E	E	E	E			
Intraoperative Neurological	E	E	E		E	E	<u> </u>	E	E	E			
Intravascular			_	_ _		+					+		
Laparoscopic	1	1					1	<u> </u>	<u> </u>	<u> </u>	<u> </u>		

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

Notes: [2] Small organ includes breast, testes, thyroid, salivary gland, lymph nodes, pediatric and neonatal patients [5] 3D/4D Imaging Mode

[6] Includes imaging of guidance of biopsy (3D/4D) [7] Includes infertility monitoring of follicle development

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Diagnostic Ultrasound Indications for Use Form

GE Voluson i with RIC5-9-RS Transducer

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

		Mode of Operation											
Clinical Application Anatomy/Region of Interest	B	M	PW Doppler	CW Doppler	Color Doppler	Color M Doppler			Harmonic Imaging	Coded Pulse	Other [Notes)		
Ophthalmic				ļ	<u> </u>								
Fetal / Obstetrics ^[7]	Р	<u> </u>	P	 	<u>Р</u>	P	Р	Р	Р	Р	[5,6]		
Abdominal ^[1]			<u> </u>	<u> </u>	<u> </u>	<u> </u>				· · · · ·			
Pediatric				<u> </u>				ļ	<u>.</u>				
Small Organ ^[2]				ļ				ł	<u> </u>	<u> </u>	┣━━━		
Neonatal Cephalic				<u> </u>		<u> </u>		<u> .</u>	<u> </u>		<u> </u>		
Adult Cephalic				ļ		╡───	ļ	·	<u> </u>	<u> </u>			
Cardiac ^[3]				<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>			
Peripheral Vascular				<u> </u>		ļ		<u> </u>					
Musculo-skeletal Conventional				<u> </u>									
Musculo-skeletal Superficial						ļ			<u> </u>				
Other				<u></u>	<u> </u>		<u> </u>			<u> </u>			
Exam Type, Means of Access					<u> </u>	<u> </u>							
Transesophageal		ļ		<u> </u>	1		<u> </u>		<u> </u>				
Transrectal ^[8]	Р	Р	Р	1	P	<u>P</u>	P	Р	P	P	[5,6]		
Transvaginal	Р	P	Р	<u> </u>	Р	<u> </u>	P	P	Р	P	[5,6]		
Transuretheral			_	ļ		<u> </u>			<u> </u>				
Intraoperative			<u> </u>		<u> </u>		<u> </u>						
Intraoperative Neurological		ļ		<u> </u>									
Intravascular		ļ		<u> </u>		<u> </u>							
Laparoscopic				<u> </u>			<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>		

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

Notes: [5] 3D/4D Imaging Mode

[6] Includes imaging of guidance of biopsy (3D/4D)

[7] Includes infertility monitoring of follicle development

[8] Includes urology/prostate

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices スダスグ o (O(k) Number _

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Diagnostic Ultrasound Indications for Use Form

GE Voluson i with 4C-RS Transducer

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

	Mode of Operation											
Clinical Application Anatomy/Region of Interest	B	М	PW Doppler	CW Doppler	Color Doppler	Color M Doppler			Harmonic Imaging	Coded Pulse	Other [Notes)	
Ophthalmic			<u> </u>									
Fetal / Obstetrics ^[7]	Р	P	Р		Р	P	Р	<u>Р</u>	P	<u>Р</u>	[6]	
Abdominal ^[1]	P	Р	Р		P	<u> </u>	Р		P	<u>Р</u>	[6]	
Pediatric	N	N	N		N	<u>N</u>	N	<u>N</u>	N	<u>N</u>	[6]	
Small Organ ^[2]			<u> </u>	L		<u> </u>		<u> </u>	! 		<u> </u>	
Neonatal Cephalic					ļ	ļ		<u> </u>				
Adult Cephalic				<u> </u>	<u> </u>	<u> </u>			┨	· · ·		
Cardiac ^[3]						ļ		<u> </u>				
Peripheral Vascular	Р	P	Р	ļ	Р	<u> </u>	P	<u>P</u>	Р	P	[6]	
Musculo-skeletal Conventional				ļ		ļ		ļ	<u> </u>		↓. ·	
Musculo-skeletal Superficial					_ _	<u> </u>						
Other		ļ		<u> </u>			<u> </u>					
Exam Type, Means of Access		ļ				<u> </u>						
Transesophageal		ļ		<u> </u>	<u> </u>	4		<u> </u>		<u> </u>		
Transrectal		ļ							+	<u> </u>	+	
Transvaginal				<u> </u>						<u> </u>		
Transuretheral		ļ										
Intraoperative		ļ		ļ		<u> </u>						
Intraoperative Neurological		ļ									+	
Intravascular		1										
Laparoscopic												

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

Notes: [1] Abdominal includes renal, GYN/Pelvic

[6] Includes imaging of guidance of biopsy (2D)

[7] Includes infertility monitoring of follicle development

[*] Combined modes are B/M, B/Color M, B/PWD or CWD, B/Color/PWD or CWD, B/Power/PWD.

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