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Estimation of volume flow rate by surface integration of velocity vectors from color Doppler images

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Journal of the American Society of Echocardiography, 1995, 8, 904-14.

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#	Paper	IF	Citations
36	New semiautomated Doppler method for quantification of volumetric flow: intraoperative validation with multiplane transesophageal color Doppler imaging. <i>Journal of the American Society of Echocardiography</i> , <b>1997</b> , 10, 330-6	5.8	16
35	Calculation of aortic regurgitant volume by a new digital Doppler color flow mapping method: an animal study with quantified chronic aortic regurgitation. <i>Journal of the American College of Cardiology</i> , <b>1997</b> , 30, 834-42	15.1	20
34	In vivo estimation of cardiovascular flows with surface integration of velocity vectors from color Doppler imaging.		
33	Beat averaging alternatives for transmitral Doppler flow velocity images. <i>Ultrasound in Medicine and Biology</i> , <b>1998</b> , 24, 971-9	3.5	9
32	Quantification of mitral regurgitation by the automated cardiac output method: an in vitro and in vivo study. <i>Journal of the American Society of Echocardiography</i> , <b>1998</b> , 11, 643-51	5.8	6
31	Increased accuracy of echocardiographic measurement of flow using automated spherical integration of multiple plane velocity vectors. <i>Ultrasound in Medicine and Biology</i> , <b>1999</b> , 25, 249-57	3.5	6
30	Neue klinische Anwendungen der dreidimensionalen Rekonstruktion in der echographischen Diagnostik. <i>Computer Science - Research and Development</i> , <b>1999</b> , 14, 16		
29	Validation of the accuracy of both right and left ventricular outflow volume determinations and semiautomated calculation of shunt volumes through atrial septal defects by digital color Doppler flow mapping in a chronic animal model. <i>Journal of the American College of Cardiology</i> , <b>1999</b> , 34, 587-93	15.1	10
28	Pediatric cardiac output measurement using surface integration of velocity vectors: an in vivo validation study. <i>Critical Care Medicine</i> , <b>2000</b> , 28, 3664-71	1.4	7
27	Doppler flow measurement using surface integration of velocity vectors (SIVV): in vitro validation. <i>Ultrasound in Medicine and Biology</i> , <b>2000</b> , 26, 255-62	3.5	2
26	Measurement of volumetric mitral and aortic blood flow based on a new freehand three-dimensional colour flow imaging method. An in vivo validation. <i>European Journal of Echocardiography</i> , <b>2000</b> , 1, 204-12		13
25	Volumetric blood flow measurement with the use of dynamic 3-dimensional ultrasound color flow imaging. <i>Journal of the American Society of Echocardiography</i> , <b>2000</b> , 13, 393-402	5.8	23
24	Quantification of flow volume with a new digital three-dimensional color Doppler flow approach: an in vitro study. <i>Journal of Ultrasound in Medicine</i> , <b>2001</b> , 20, 1303-11	2.9	11
23	Transoesophageal echocardiographic monitoring during paediatric cardiac surgery: obtainable information and feasibility in 532 children. <i>Paediatric Anaesthesia</i> , <b>2001</b> , 11, 657-62	1.8	24
22	Three dimensional echocardiography documents haemodynamic improvement by biventricular pacing in patients with severe heart failure. <i>British Heart Journal</i> , <b>2001</b> , 85, 514-20		45
21	Non-invasive automated assessment of the ratio of pulmonary to systemic flow in patients with atrial septal defects by the colour Doppler velocity profile integration method. <i>British Heart Journal</i> , <b>2002</b> , 88, 278-82		7
20	A new dynamic three-dimensional digital color doppler method for quantification of pulmonary regurgitation: validation study in an animal model. <i>Journal of the American College of Cardiology</i> , <b>2002</b> , 40, 1179-85	15.1	22

19	Surface Integration of Velocity Vectors from 3D Digital Colour Doppler: An Angle Independent Method for Laminar Flow Measurements. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2002</b> , 3, 177-184	4.1	10
18	A validation study of aortic stroke volume using dynamic 4-dimensional color Doppler: an in vivo study. <i>Journal of the American Society of Echocardiography</i> , <b>2002</b> , 15, 1045-50	5.8	23
17	Direct quantification of transmitral flow volume with dynamic 3-dimensional digital color Doppler: a validation study in an animal model. <i>Journal of the American Society of Echocardiography</i> , <b>2002</b> , 15, 55-62	5.8	26
16	Clinical applicability for the assessment of the valvular mitral stenosis severity with Doppler echocardiography and the proximal isovelocity surface area (PISA) method. <i>Echocardiography</i> , <b>2004</b> , 21, 1-6	1.5	16
15	Automated volumetric flow quantification using angle-corrected color Doppler image. <i>Echocardiography</i> , <b>2004</b> , 21, 399-408	1.5	2
14	Measurement of volumetric flow. <i>Journal of Ultrasound in Medicine</i> , <b>2006</b> , 25, 1305-11	2.9	24
13	Mean volume flow estimation in pulsatile flow conditions. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 1880-91	3.5	15
12	Accuracy of volumetric flow rate measurements: an in vitro study using modern ultrasound scanners. <i>Journal of Ultrasound in Medicine</i> , <b>2009</b> , 28, 1511-8	2.9	35
11	Automated measurement of stroke volumes by real-time three-dimensional Doppler echocardiography: coming of age?. <i>Journal of the American Society of Echocardiography</i> , <b>2012</b> , 25, 66-7	5.8	3
10	Three-dimensional sonographic measurement of blood volume flow in the umbilical cord. <i>Journal of Ultrasound in Medicine</i> , <b>2012</b> , 31, 1927-34	2.9	11
9	Volumetric blood flow in transjugular intrahepatic portosystemic shunt revision using 3-dimensional Doppler sonography. <i>Journal of Ultrasound in Medicine</i> , <b>2015</b> , 34, 257-66	2.9	11
8	InVivo Validation of Volume Flow Measurements of Pulsatile Flow Using a Clinical Ultrasound System and Matrix Array Transducer. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 579-585	3.5	10
7	Energy efficiency and pulmonary artery flow after balloon pulmonary angioplasty for inoperable, chronic thromboembolic pulmonary hypertension: Analysis by phase-contrast MRI. <i>European Journal of Radiology</i> , <b>2017</b> , 87, 99-104	4.7	12
6	Evaluation of Umbilical Vein Blood Volume Flow in Preeclampsia by Angle-Independent 3D Sonography. <i>Journal of Ultrasound in Medicine</i> , <b>2018</b> , 37, 1633-1640	2.9	5
5	Partial Volume Effect and Correction for 3-D Color Flow Acquisition of Volumetric Blood Flow. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 1749-1759	3.2	1
4	Three-dimensional US for Quantification of Volumetric Blood Flow: Multisite Multisystem Results from within the Quantitative Imaging Biomarkers Alliance. <i>Radiology</i> , <b>2020</b> , 296, 662-670	20.5	2
3	Comparison of Variations Between Spectral Doppler and Gaussian Surface Integration Methods for Umbilical Vein Blood Volume Flow. <i>Journal of Ultrasound in Medicine</i> , <b>2021</b> , 40, 369-376	2.9	1
2	Three dimensional echocardiography documents haemodynamic improvement by biventricular pacing in patients with severe heart failure. <i>Heart</i> , <b>2001</b> , 85, 514-520	5.1	

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