كلية الطب Faculty of Medicine

جامعة الملك عبدالعزيز King Abdulaziz University





>> MainPage		<u>Research Details :</u>	
> About Us	Research Title	: <u>A novel method for the assessment of the accuracy of computing</u> <u>laminar flow stroke volumes</u>	
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> PhotoAlbum		<u>A novel method for the assessment of the accuracy of computing</u> Iaminar flow stroke volumes	
E-Learning	Descriptipn	: Aims: Laminar flow stroke volume (SV) quantification in the ascending aorta or pulmonary artery can provide a measure for determining cardiac output (CO). Comparing flows across different	
> Services			
Staff web sites		valves can also compute shunt volumes and regurgitant fractions.	
Conferences	Qu ha cu me ma	Quantification methods for 3D color Doppler laminar flow volumes have been developed using reconstructive 3D, but these are cumbersome and time-consuming both in acquisition and measurement. Our study evaluated newly developed color Doppler mapping with real-time live 3D echo to test velocity, spatial and temporal resolution for computing SV. Methods and results: Five rubber tubes (diameters 22, 0, 2, 25, 2, 0, 1, 0, 1, 7, am), a frashly	
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> Awards	of 40e60 bpm in this phantom model with flow quantified by tin collection. The Nyquist limit was set between 43 and 100 cm/s a frame rate ranged from 14 to 23/s. ECG triggered 3D color Dop volumes were acquired with a 2e4 MHz probe. The digital scan data from the 3D volumes, with retained velocity assignments, was exported and analyzed offline by MatLab custom software Research Type : Article		
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	Added Date	: Sunday, March 30, 2008	
	<u>Researchers :</u>		
	Researcher Name (د/ ریما بدر	(Arabic) Researcher Name (English) Researcher Type Degree Email أستاذ مشارك Researcher	
	<u>Attatchments :</u>		
	File Na	ame Type Description	

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