

Echocardiography

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's apex at bottom. The trace in the lower left shows the cardiac cycle and the red mark the time in the cardiac cycle that the image was captured.. The trace in the lower left shows the cardiac cycle and the red mark the time in the cardiac cycle that the image was captured. Colors are used to represent the velocity and direction of blood flow. An echocardiogram is a sonography of the heart. Also known as a cardiac ultrasound, it uses standard ultrasound techniques to image two-dimensional slices of the heart. The latest ultrasound systems now employ 3D real-time imaging. In addition to creating two-dimensional pictures of the cardiovascular system, an echocardiogram can also produce accurate assessment of the velocity of blood and cardiac tissue at any arbitrary point using pulsed or continuous wave doppler ultrasound. This allows assessment of cardiac valve areas and function, any abnormal communications between the left and right side of the heart, any leaking of blood through the valves, and calculation of the cardiac output as well as the Ejection fraction. Echocardiography was an early medical application of ultrasound. Echocardiography was also the first application of intravenous contrast-enhanced ultrasound. This technique injects gas-filled microbubbles into the venous system to improve tissue and blood delineation. Contrast is also currently being evaluated for its effectiveness in evaluating myocardial perfusion. It can also be used with Doppler ultrasound to improve flow-related measurements. Echocardiography is usually performed by cardiologists or cardiac sonographers.

Recent Publications on Echocardiography:



- [\[Transthoracic echocardiography in transcatheter closure of atrial septal aneurysm combined with secundum-type atrial septal defect.\]](#)
*Objective To explore the value of transthoracic echocardiography (TTE) in...*6th September, 2008
Department of Cardiology, Xiangya Hospital, Central South- Zhong Nan Da Xue Xue Bao Yi Xue Ban. 2008 Aug;33(8):755-60.
- [IFATS Series: Human Adipose Tissue-Derived Stem Cells Induce Angiogenesis and Nerve Sprouting Following Myocardial Infarction, in Conjunction with Potent Preservation of Cardiac Function.](#)
*Background The administration of therapeutic cell types, such as stem and...*6th September, 2008
Indiana Center for Vascular Biology and Medicine, Indiana University- Stem Cells. 2008 Sep 4. ([DOI Direct Link](#))
- [Myocardial blood flow and adenosine A2A receptor density in endurance athletes and untrained men.](#)
*Background-Previous human studies have shown divergent results concerning...*6th September, 2008
Turku PET Centre and Department of Clinical Physiology and Nuclear- J Physiol. 2008 Sep 4. ([DOI Direct Link](#))
- [Sizing of atrial septal defects by intracardiac echocardiography for device closures.](#)
*Background: Transcatheter closure of a secundum atrial septal defect (ASD)...*6th September, 2008
Department of Pediatrics, Lo-Tung Pohai Hospital, Ilan, and Department of- J Chin Med Assoc. 2008 Aug;71(8):399-405.

- [Cardiac markers of pre-clinical disease in adolescents with the metabolic syndrome the strong heart study.](#)
*OBJECTIVES: Our aim was to evaluate the impact of metabolic syndrome...*6th September, 2008
Department of Clinical and Experimental Medicine, "Federico II" University- J Am Coll Cardiol. 2008 Sep 9;52(11):932-8. ([DOI Direct Link](#))
- [Success of surgical left atrial appendage closure assessment by transesophageal echocardiography.](#)
*OBJECTIVES: We sought to determine which surgical technique of left atrial...*6th September, 2008
Department of Cardiovascular Medicine, Cleveland Clinic, Cleveland, Ohio.- J Am Coll Cardiol. 2008 Sep 9;52(11):924-9. ([DOI Direct Link](#))
- [CA 125 Tumoral Marker Plasma Levels Relate to Systolic and Diastolic Ventricular Function and to the Clinical Status of Patients with Chronic Heart Failure.](#)
*Plasma levels of the tumoral carbohydrate 125 antigen marker (CA 125) have...*6th September, 2008
Institute of Cardiology, University of Brescia, Italy.- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Diagnostic Accuracy of Doppler Echocardiography for Determining Left Ventricular Diastolic Pressure Elevation: Prospective Comparison to Chest Radiography, Serum B-Type Natriuretic Peptide, and Chest Auscultation.](#)
*Background: Doppler echocardiography (DE), chest radiography (CXR), serum...*6th September, 2008
Division of Cardiology, Department of Medicine, Montefiore Medical Center,- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Evaluation of the Left Ventricular Diastolic Function Using Three-Dimensional Echocardiography.](#)
*The aim of this study was to evaluate the left ventricular (LV) diastolic...*6th September, 2008
St. Mary's Hospital, Division of Cardiology, Kurume, Japan.- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [The Correlation of Left Atrial Volume Index to the Level of N-Terminal Pro-BNP in Heart Failure with a Preserved Ejection Fraction.](#)
*Background: Patients with heart failure with a preserved ejection fraction...*6th September, 2008
Division of Cardiology, Department of Internal Medicine, Dongsan Medical- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Association of Coronary Sinus Diameter with Pulmonary Hypertension.](#)
*Background: Impaired venous drainage secondary to increased right atrial...*6th September, 2008
Cardiology Department, Faculty of Medicine, Yuzuncu Yil University, Van,- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Use of the Monoplane Intracardiac Imaging Probe in High-Risk Infants during Congenital Heart Surgery.](#)
*Imaging options are limited in high-risk infants with small or abnormal...*6th September, 2008
The Duke Children's Heart Program, Duke University Medical Center, Durham,- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Erroneous Diagnosis of Significant Obstruction by Doppler in a Patient with Discrete Subaortic Membrane: Correct Diagnosis by 3D-Transthoracic Echocardiography.](#)
*We report an adult with a discrete subaortic membrane in whom...*6th September, 2008
Division of Cardiovascular Diseases, University of Alabama at Birmingham,- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Myocardial Recovery after Hypoxia: Stunning Recovery.](#)
*We report an adult with a discrete subaortic membrane in whom...*6th September, 2008
University of Texas-Houston, Houston, Texas.- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))
- [Evaluation Cardioprotective Effects of Atorvastatin in Rats by Real Time Myocardial Contrast Echocardiography.](#)
*Background: The ability to assess myocardial perfusion in small animals is...*6th September, 2008
Department of Cardiology, University of Heidelberg, Heidelberg, Germany.- Echocardiography. 2008 Sep 2. ([DOI Direct Link](#))

BioNews Results for Echocardiography

- [Eye on Imaging: New Stark Rules Tackle Medical Imaging Transactions](#)
Laboratory Industry Report: Sep 5 2008 3:43AM Matching: echocardiography
- [Medicare Panel Questions PET Scan Cancer Data](#)
Laboratory Industry Report: Sep 5 2008 3:43AM Matching: echocardiography
- [Patient-focused Outcomes Following Open-access Echocardiography for Suspected Chronic Heart Failure](#)
British Journal of Cardiology: Sep 3 2008 11:45AM Matching: echocardiography
- [Biotronik initiates enrollment for EchoCRT study](#)
Datamonitor: Aug 28 2008 3:10AM Matching: echocardiography
- [Research findings from Medical Imaging Center update understanding of heart attack](#)
Therapeutics Daily: Aug 28 2008 7:34PM Matching: echocardiography
- [MedPro Installs 1000th Ultrasound System Worldwide](#)
KRON4: Aug 28 2008 10:59AM Matching: echocardiography
- [MedPro installs 1000th ultrasound system worldwide](#)
Medicexchange.com: Aug 28 2008 10:15AM Matching: echocardiography
- [Biotronik initiates enrollment for EchoCRT study](#)
Pharmaceutical Business Review: Aug 28 2008 4:59AM Matching: echocardiography
- [Functional Tricuspid Regurgitation in Patients with Pulmonary Hypertension: Is Pulmonary Artery Pressure the O](#)
CHEST: Aug 22 2008 10:35AM Matching: echocardiography
- [BPL launches novel cardiac anomaly indicator ViScope 100 for accurate diagnosis](#)
PharmaBiz: Aug 21 2008 3:21AM Matching: echocardiography
- [Transesophageal Echocardiography in a Patient in Hemodynamic Compromise After Jarvik 2000 TM Implantation: The](#)
Anesthesia & Analgesia: Aug 20 2008 6:42PM Matching: echocardiography
- [Incidental Finding of Superior Vena Cava Mass Missed on Transesophageal Echocardiography but Seen on Epiortic](#)
Anesthesia & Analgesia: Aug 20 2008 6:42PM Matching: echocardiography
- [Circulation Research: Research from Technion in circulation research provides new insights](#)
NewsRX: Aug 18 2008 9:31AM Matching: echocardiography
- [Heart Failure Prevention: Data from University Hospital provide new insights into heart failure prevention](#)
NewsRX: Aug 15 2008 6:20PM Matching: echocardiography
- [Baby Heart Transplants Fan Ethical Debate Over Dead-Donor Rule](#)
MedPage Today: Aug 15 2008 5:18AM Matching: echocardiography

Echocardiography Clinical Trials:



- [Myocardial Contrast Echocardiography \(MCE\) to Check for Living and Working Heart Muscle](#)
Coronary Disease; Heart Diseases



Echocardiography Patents:

- 7358226- [Ultrasonic concentration of drug delivery capsules](#)
- 7375185- [Cardiac myosin light chain kinase polypeptide, encoding nucleic acid, and methods of use](#)
- 7377940- [Implantable prosthesis](#)
- 7381181- [Device for treating heart failure](#)
- 7381182- [Method and apparatus for external heart stabilization](#)
- 7384649- [Particulate compositions for pulmonary delivery](#)
- 7387126- [Surgical system and procedure for treatment of medically refractory atrial fibrillation](#)
- 7387606- [Colonoscope apparatus and method](#)
- 7387610- [Thoracic impedance detection with blood resistivity compensation](#)
- 7387776- [Human monoclonal antibodies against CD30](#)
- 7390311- [Delivery of a sympatholytic cardiovascular agent to the central nervous system](#)
- 7374744- [Harmonic ultrasound imaging with microbubbles](#)
- 7374537- [Performing ultrasound ranging in the presence of ultrasound interference](#)
- 7372937- [Systems and methods of non-standard spiral cone-beam computed tomography \(CT\)](#)
- 7359554- [System and method for identifying a vascular border](#)
- 7361139- [Cardiac harness delivery device and method](#)
- 7364546- [Multi-functional medical catheter and methods of use](#)
- 7366562- [Method and apparatus for surgical navigation](#)
- 7366567- [Method for treating myocardial infarction](#)
- 7366992- [Method and system for displaying and/or manipulating medical image data](#)
- 7367975- [Energy based devices and methods for treatment of anatomic tissue defects](#)
- 7367991- [Conformal tricuspid annuloplasty ring and template](#)
- 7371210- [Flexible instrument](#)
- 7371259- [Annuloplasty band and method](#)
- 7395114- [Intracardial impedance measuring arrangement](#)
- 7396537- [Cell delivery patch for myocardial tissue engineering](#)
- 7412276- [Brain therapy](#)
- 7413568- [Composite structures and methods for ablating tissue to form complex lesion patterns in the treatment of cardiac conditions and the like](#)
- 7413734- [Treatment of retinitis pigmentosa with human umbilical cord cells](#)
- 7414171- [PD-1-lacking mouse and use thereof](#)
- 7416530- [Medical devices](#)
- 7416531- [System and method of detecting and processing physiological sounds](#)
- 7419466- [Delivery of cardiac constraint jacket](#)
- 7419482- [Systems and methods for delivering agents into targeted tissue of a living being](#)
- 7419670- [Method of treating arthritis with SERP-1 and an immunosuppressant](#)
- 7420100- [Methods and compositions relating to HDAC 4 and 5 regulation of cardiac gene expression](#)
- 7410491- [Vascular device for emboli, thrombus and foreign body removal and methods of use](#)
- 7410461- [Cardiac treatment apparatus](#)
- 7409240- [System and method for imaging myocardial infarction](#)
- 7399740- [Poly-Glu,Tyr for neuroprotective therapy](#)
- 7399750- [Methods for cardiac gene transfer](#)
- 7399866- [Compounds, compositions, and methods](#)
- 7402134- [Magnetic devices and methods for reshaping heart anatomy](#)

- 7404221- [Reciprocating movement platform for the external addition of pulses to the fluid channels of a subject](#)
- 7404793- [Heart failure treatment device and method](#)
- 7404800- [Hybrid LVEDP monitor](#)
- 7404816- [Leak detection system](#)
- 7404824- [Valve adaptation assist device](#)
- 7405284- [Reducing cellular dysfunction caused by mitochondrial gene mutations](#)
- 7421101- [System and method for local deformable motion analysis](#)

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