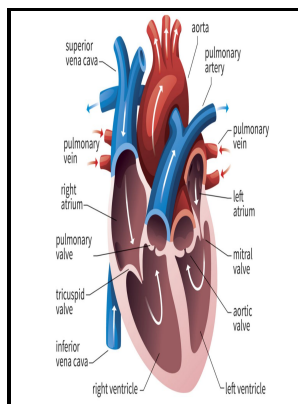


Right ventricle

Kluwer Academic Publishers - Types of Heart Failure



Description: -

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Mathematics -- Problems, exercises, etc.
Hopkins County (Ky.) -- Genealogy.
Registers of births, etc. -- Kentucky -- Hopkins County.
Heart Ventricle -- physiopathology.
Heart Diseases -- physiopathology.
Heart -- Right ventricle.
Heart -- Right ventricle -- Diseases. Right ventricle

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Developments in cardiovascular medicine Right ventricle

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echocardiographic assessment of the right ventricle: what to do in 2010?

Several groups only report two segments per RV free wall owing to anatomical difficulties in accurately obtaining data from the apical segment or physiological considerations the basal segment representing the function of the smooth inlet component and the apical one representing the function of the trabeculated inlet component. To change or withdraw your consent choices for VerywellHealth.

What Is the Right Ventricle?

They showed that in RV pressure-overload conditions, tricuspid ring velocities are lower and IVRT increases, as opposed to volume-overload conditions, where the ring systolic velocities increase significantly, whereas diastolic velocities decrease. Recent developments have provided several new methods for analysing the RV, each having advantages and disadvantages.

Right ventricle

Three-dimensional echocardiography has emerged as the non-invasive technique that would overcome the geometric limitations of standard 2D Echo. Assessment of the structure and architecture of the RV walls can identify features which suggest a particular aetiology, such as RV infarct or ARVC. Similar acquisition techniques to 2D Echo are employed, but the visualization of the entire RV especially the apical anterior wall and RVOT remains a challenge—particularly in enlarged hearts in which the appraisal of RV function is especially relevant.

echocardiographic assessment of the right ventricle: what to do in 2010?

What does the right ventricle look like? A value higher than 1 at end diastole suggests RV volume overload and a value above 1 at end systole and end diastole is highly suggestive for RV pressure overload. In this time interval during RV pressure fall until pulmonary valve closure, ejection of blood is maintained most likely as a consequence of the high capacitance of the pulmonary circulation which allows the preservation of blood momentum.

Right ventricle

It occurs in boys and girls equally. At frame rates of 150—160 fps, the temporal resolution is considered acceptable, and with wall-by-wall

acquisitions, the frame rate can be as high as 180—220 fps.

Right Ventricle

In conditions characterized by RV volume overload, the flattening of the septum is seen only in diastole, the septum regaining its normal shape in systole.

Right ventricular hypertrophy: Causes and complications

In a normal heart, de-oxygenated blood passes down continuously from the right atrial chamber to the right ventricle by way of the tricuspid valve. A possible explanation is the close relation between the direction of maximum systolic deformation and mean fiber direction found in the RVFW.

Types of Heart Failure

In addition, RV performance is directly influenced by LV functional status owing to ventricular interaction. In contrast to the left ventricle, longitudinal shortening is the primary contractile determinant of right ventricular stroke volume; this facet of right ventricular function is appreciated clinically by the excursion of the tricuspid annulus, drawn toward the apex with each systole.

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