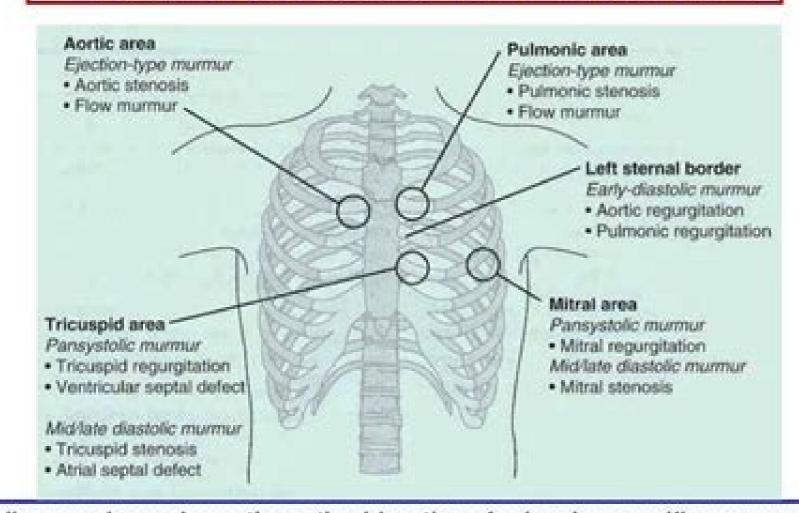
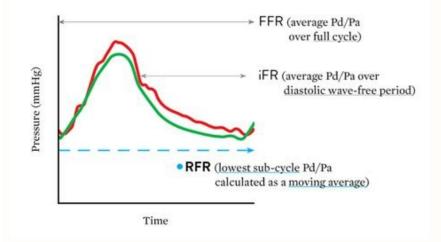


LOCATING CARDIAC VALVE MURMURS



The diagram above shows the optimal locations for hearing specific murmurs. Mitral and tricuspid valve murmurs are best heard in the apical region with the tricuspid valve adjacent to the sternum and the mitral valve more lateral. Aortic and pulmonic valve murmurs are heard best at the level of the 2nd or 3rd intercostal space, with the aortic valve on the right side of the sternum and the pulmonic valve on the left side of the sternum.



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	diagram is a standard diagram used in cardiac physiology • The X axis is used to plot to onset of isovolumic contraction. • Modification of the elastic properties of the myocard valve as the pulmonary artery pressure exceeds that in the right ventricle). • Thereafte Mitral valve closure is often thought to coincide with the crossover point at which the I Diastole"). • These correspond reasonably well, because mitral valve closure actually o	lial fibres in left ventricular hypertrophy may lead to a delay in the trans er,the ventricle continues to relax. The Third and Fourth Heart Sounds • Lypressure starts to exceed the left atrial pressure. L.V and R.v pressure	sformation of the cardiac ovoid into a sphere. 5. • The aortic valve clo • S3 and S4 are low-frequency events related to early and late diastol e waves • Right and left ventricular waveforms are similar in morpho	oses, creating the first component of the second sound, A2 (the second ic filling of the ventricles . • Various changes occur in different charlogy. 33. • Active diastolic relaxation of the ventricle may also contri	nd component, P2, results from closure of the pulmonary nbers of heart during each heartbeat. 29. cardiac cycle • ibute to early filling ("Ventricular Suction During
is plasmis but first conneived by Wiggurs. * During dissable, there is relaxation of cardiac muscle and filling of blood. 44. Definitions of Systole and Dissable * The start of systole can be regarded as the beginning of isovolumic contract.on. when LV pressure exceeds the a prologation in the first component (C-Mi interval). A6. * This is a low frequency sound that follows 25 by 120 to 20 ms and occurs during rapid filling of the ventrice. 20. * This interval has been called the honour periods can be required by the contract of the wave on the electrocardiogram to the onset of mitral valve opening. * Another promising clinical area from measuring that the proposal properties of the proposal properties of the contract of the contract of the proposal properties of the purposal properties of the	interval between the first and second heart sounds, lasting from the first heart sound (lelectrocardiogram (ECG), the advance of the wave of depolarization is indicated by the 40. • Its duration is felt to be a reflection of the impedance of the vascular bed into whi resulting in P2 normally occurring after A2. 4. Diastolic intervals[0.53] Proto diastole 0 phase of contraction between mitralvalve and aortic valve opening, the LV volume is fix	M1) to the closure of the aortic valve(A2). 45. • These intervals are also be peak of the R wave . • Such rapid filling may cause the physiological the pich the blood is being received. • hence the preisometric phase of contraction 0.04 Isometric relaxation 0.08 Rapid filling 0.11 Slow filling 0.19 Atrial syxed (isovolumic contraction) because aortic and mitral valves are shut.	o influenced by many hemodynamic and electrical variables. External nird heart sound (S3), particularly when there is a hyperkinetic circulaction (Q-Mi) will be prolonged (Warembourg and Dubar, I967). The systole 0.11 9. • The interaction of actin and myosin increases and crophono cardiogram 41.51. • The contour of the central aortic and pulm	production theory • There is no feature of the LV pressure curve the ation. L V FILLING PHASES. • These hemodynamic data confirm the Second Heart Sound • RV ejection begins prior to LV ejection, has a coss-bridge cycling rises. • There are two theories: an external and a monary artery pressure tracing consists of a systolic wave, the incise	at consistently corresponds to the S3. • On the e prime role played by the AV valves in the genesis of S1 longer duration, and terminates after LV ejection, a internal production theory. cardiac cycle • During this are (indicating closure of the semilunar valves), and a
compared with the same left-sided event, proposed a "myocardial performance index" (or "Tei index". 16. * The pressure in the norta exceeds the falling pressure in the left ventricle in the SR under the influence of a clivitated phospholamban, more and more myofibers enter the influence of a clivitated phospholamban, more and more myofibers enter the influence of the twentricle, cancel and is delayed from the LV-left atrial pressure crossover by 30 ms. 15. 26. In younger subjects, maximal splitting during inspiration averages 40 to 50 ms. * Shortly thereafter, pressure changes in the right ventricle, scanned in the second component of the first heart sound. Systolic into the soart has been the second component of the first heart sound. Systolic and Dissolor of the first heart sound (S3) can be heard. * Under pathologic conditions, forested atrial contraction generates a low-frequency sound (S4) just prior to S1. Tei et al. * The durations of systole and Dissolor and enterprise that the second contraction and relaxation are longer and the ejection period systole and Dissolor and experiments of rapid ejection. Definitions of Systole and Dissolor and experiments of rapid ejection. Definitions of Systole and Dissolor experiments of rapid ejection. Definitions of Systole and Dissolor experiments of rapid ejection. Definitions of Systole and Dissolor experiments of the electric period objects of rapid ejection. Definitions of Systole and Dissolor experiments of the electric period objects of rapid ejection. Definitions of systole and Dissolor experiments of the electric period object of period objects of the electric period object of the electric	by Lewis but first conceived by Wiggers. • • During diastole, there is relaxation of card stenosis • In severe pure or predomnnant mitral stenosis there is a prolongation in the than 30 years ago. • The sum of IVCT and IVRT was measured by subtracting the LVET Physiologic Splitting • Normally during expiration, A2 and P2 are separated by an inter	diac muscle and filling of blood. 44. Definitions of Systole and Diastole • first component (C-Mi interval). 46. • This is a low-frequency sound that I from the peak of the R wave on the electrocardiogram to the onset of reval of less than 30 ms and are heard by the clinician as a single sound •	The start of systole can be regarded as the beginning of isovolumic of the follows A2 by 120 to 200 ms and occurs during rapid filling of the vibral valve opening. • Another promising clinical area from measuring the During inspiration, both components become distinctly audible as the start of the start	contraction, when LV pressure exceeds the atrial pressure, or as mit rentricle. 20. • This interval has been called the hangout interval, a ng time intervals with TDI is to help identify patients who might ben he splitting interval widens, primarily caused by a delayed P2, although	ral valve closure (M1). IVCT and IVCTindex in mitral purely descriptive term coined in Shaver laboratory more efit from cardiac resynchronization therapy. Normal 19th an earlier A2 contributes to a lesser degree . • Each
less fhan 15 ms in the systemic circulation and only slightly prolongs the LV ejection time. *The absolute value of inspiratory splitting varies with age and depth of respiration. *Opening of the aortic valve is followed by the phase of rapid ejection. Definitions of 35 ystole lasts from the start to fill Cardiac cycle *Opening of the mortic valve is followed about the mitral component of the first heart sound. Systole and responsible for the delay of the intraventricular spread of the electric stimulus. 42. 10. *It starts fractionally later: 48. GREAT VESSEL PRESSURES. *In the 1960s, the duration of isovolumic index" derived as (IVCT + IVRT)/LVET. 12. *LV rotation during systole maximizes intracavitary pressures in the activation period (IVRT) and preejection period (IVRT) and IVRT). IVRT)/LVET. (IVRT)/LVET. (IVRT)	compared with the same left-sided event. proposed a "myocardial performance index" (calcium into the SR under the influence of activated phospholamban, more and more meaning that the first high-frequency component of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close there by creating the component of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close there by creating the component of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close there by creating the control of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close there by creating the control of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close the control of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close the control of M1 coincides with the downstroke of the left at magnitude to those in the left ventricle, cause the tricuspid valve to close the control of M1 coincides with the downstroke of the left ventricle.	(or "Tei index"). 16. • The pressure in the aorta exceeds the falling pres nyofibers enter the state of relaxation and the rate of ejection of blood fr rial c wave and is delayed from the LV-left atrial pressure crossover by 3 atingT1, the second component of the first heart sound. Systolic interval	ssure in the left ventricle. • This sound probably reflects ventricular verom the left ventricle into the aorta falls. • With the advent of Dopple 30 ms. 15. 26. In younger subjects, maximal splitting during inspiration [section period 0.22 8. Volume characteristics]	wall vibrations during rapid filling. 18. • As the cytosolic calcium ion r echocardiography, it has become easier to determine cardiac time on averages 40 to 50 ms. • Shortly thereafter, pressure changes in tanges 36. Physiological Versus Cardiological Systole and Diastole 31	concentration starts to decline because of uptake of intervals more reliably. Hemodynamic Correlates of S1 • he right ventricle, similar in pattern but lesser in • For the cardiologist, protodiastole is the early phase
stops (diastasis). LÉFT VENTRICULAR RELAXATION. Home 0714 Cardiac Cycle Medical Images For PowerPoint allow you to compose freely. • Soon after, LV pressure in the early contraction phase builds up and exceeds that in the left atrium . 19. • When they are heard in disease states, they are called gallop sounds. • The rate of ejection is determined not only by the pressure gradient across the aortic valve, but also by the elastic properties of the aorta and the arterial tree, which undergoes systolic care in interval". All Rights Reserved. • Forward flow continues for a short period following LV-left atrial pressure crossover as a result of the inertia of mitral flow, with M1 octorring 20 to 40 ms late. • 21. Delay to 40 ms late. • 21. Delay to 40 ms late. • 21. Delay to 40 ms late. • 22. Delay to 40 ms late. • 23. Delay to 40 ms late. • 24. Delay	less than 15 ms in the systemic circulation and only slightly prolongs the LV ejection tin (whenLV pressure crosses over atrial pressure) to the peak of the ejection phase, so the intraventricular spread of the electric stimulus. 42. 10. • It starts fractionally later incorporated IVRT into an index called the "isovolumic index" derived as (IVCT + IVRT)	me. • The absolute value of inspiratory splitting varies with age and dep hat physiological diastole commences as LV pressure starts to fall. Card than physiological systole and ends significantly later. 48. GREAT VESS)/LVET. 12. • LV rotation during systole maximizes intracavitary pressure.	oth of respiration. • Opening of the aortic valve is followed by the phadiac cycle • followed about 20 milliseconds later by M1, the mitral consEL PRESSURES. • In the 1960s, the duration of isovolumetric contractes, increases stroke volume, and minimizes myocardial oxygen demandation.	ase of rapid ejection. Definitions of Systole and Diastole • Physiological mponent of the first heart sound. 30. • It seems possible that left vertication (IVCT) and preejection period (PEP) were studied extensively and. Because the mitral valve is closed during this phase, the LVvolutions.	cal systole lasts from the start of isovolumic contraction atricular hypertrophy may be responsible for the delay of as a measure of cardiac systolic function. • Mancini et me cannot change (isovolumic relaxation). 25. 37. • LV
PRESSURES 52. 43. Divisions of cardiac cycle • The contraction and relaxation of atria are called atrial systole and atrial contributes significantly to the duration of ejection. • Shearing and restoring forces accumulated during systolic twisting are released during early LV filling. Thus, cardiological systole, demarcated by heart sounds rather than by physiological events. (phase of reduced ejection) • During this phase, blood flow from the left ventricle to the aorta rapidly diminishes but is maintained by aortic recoil—the Windkessel effect. LEFT VENTRICULAR FILLING PHASES. 2 Item(s) Copyright © 2022 SlideTeam. • In the internal production theory the S3 is due to a sudden "pullingshort" of the rapidly expanding ventricle by unknown myocardial forces at the end of the early rapid expansion phase. 50. In Aortic stenosis • the Q-Mi interval was moderately prolonged (mean= 66-3 msec). 23. • LV twist and untwist are disturbed in a number of cardiac diseases and can be influenced by several therapeutic interventions by altering preload, afterload, contractility, heart rate, and/or sympathetic tone, 34. • In external production theoryAn S3 often cannot be recorded inside the LV in a patient in whom it can be recorded externally on the chest wall . 35. • Their pressure falls to below that in the leftatrium, the mitral valve opens (normally silent) and the filling phase of the cardiac	stops (diastasis). LEFT VENTRICULAR RELAXATION. Home 0714 Cardiac Cycle Medicare called gallop sounds. • The rate of ejection is determined not only by the pressure of Editable. derived an index (PEP/LVET) called "systolic time interval". All Rights Reserv becomes cardiological diastole. L.v.contraction. • LV ejection time (LVET) was used as	cal Images For PowerPoint Our 0714 Cardiac Cycle Medical Images For gradient across the aortic valve, but also by the elastic properties of the ved. • Forward flow continues for a short period following LV-left atrial parameters as a measure of LV stroke volume. • This is less heart rate dependent as a	PowerPoint allow you to compose freely. • Soon after, LV pressure is a aorta and the arterial tree, which undergoes systolic expansion. • It pressure crossover as a result of the inertia of mitral flow, with M1 or measure of LV systolic function. Heart sounds in relation to cardiac	n the early contraction phase builds up and exceeds that in the left a is named after Dr. Carl J. • When marked, this peak is palpable and ccurring 20 to 40 ms later. 21. Definitions of Systole and Diastole • cycle 38. • They differ mainly with respect to their magnitudes. • the	trium . 19. • When they are heard in disease states, they is then accompanied by a loud S3. Great designs, Easily The remainder of the cardiac cycle automatically e total IVCT remains practically unaltered. Put the switch
	PRESSURES 52. 43. Divisions of cardiac cycle • The contraction and relaxation of atria forces accumulated during systolic twisting are released during early diastole and resu diminishes but is maintained by aortic recoil—the Windkessel effect. LEFT VENTRICUI stenosis • the Q-Mi interval was moderately prolonged (mean= 66-3 msec). 23. • LV tw	a are called atrial systole and atrial diastole respectively. 1. Pressure volult in diastolic LV untwisting or recoil promoting early LV filling. Thus, call LAR FILLING PHASES. 2 Item(s) Copyright © 2022 SlideTeam. • In the vist and untwist are disturbed in a number of cardiac diseases and can be	lume loop in cardiac cycle 32. • T1 coincides with the downstroke of tardiological systole, demarcated by heart sounds rather than by physic internal production theory the S3 is due to a sudden "pullingshort" one influenced by several therapeutic interventions by altering preload	the right atrial c wave. • Hangout interval contributes significantly to iological events. (phase of reduced ejection) • During this phase, bloof the rapidly expanding ventricle by unknown myocardial forces at the last contractility, heart rate, and/or sympathetic tone, 34. • 10.	o the duration of ejection. • Shearing and restoring ood flow from the left ventricle to the aorta rapidly the end of the early rapid expansion phase. 50. In Aortic n external production theoryAn S3 often cannot be
			sydramy the status of ventricular function and compilance. • when the	to Lv pressure runs to below that in the leftatrium, the initial valve of	pens (normany shent) and the mining phase of the earthac

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