POST GRADUATE DIPLOMA IN CLINICAL CARDIOLOGY (PGDCC)

Term-End Examination

June, 2012

MCC-005: COMMON CARDIOVASCULAR DISEASES-III

Time: 2 hours Maximum Marks: 60

Note:

- (i) There will be multiple choice type of questions in this examination which are to be answered in **OMR Answer Sheets.**
- (ii) All questions are compulsory.
- (iii) Each question will have four options and only one of them is correct. Answers have to marked in figures in the appropriate rectangular boxes corresponding to what is the correct answer and then blacken the circle for the same number in that column by using HB or lead pencil and not by ball pen in OMR Answer Sheets.
- (iv) If any candidate marks more than one option it will be taken as the wrong answer and no marks will be awarded for this.
- (v) There will be 90 questions in this paper and each question carries equal marks.
- (vi) There will be no negative marking for wrong answers.
- (vii) No candidate shall leave the examination hall at least for one hour after the commencement of the examination.

MCC-005 1 P.T.O.

1.	Intra (1)	venous preparatio Carvedilol	on of (2)	beta blocker Bisoprolol	r is av	ailabl (3)	e with Esmolol	(4)	Nebivolol	
2.	All c	of the following ar Furosemide	e loop (2)			(3)	Torsemide	(4)	Indapamide	
3.	Whice (1)	ch antiarrhythmic Quịnidine	drug (2)	shortens Q Amiodaro		erval (3)	Phenytoin	(4)	Sotalol	
4.	Whice (1)	ch one of the follo Atorvastatin		is not a lipid Rosuvastat		difying (3)		(4)	Ranolazine	
5.		Which one of the following drug is contraindicated in Post Myocardial Infarction Left								
	vent	ricular dysfunctio Ramipril	n ? (2)	Nifedipine		(3)	Torsemide	(4)	Metoprolol	
6.	Seru (1) (3)	Troponin			rdial (2) (4)	infarction of less than 4 hours duration Myoglobin Lactate Dehydrogenase				
7.	Whie (1) (3)	ich one is not a risk factor for coror Hypertension Hyperthyroidism			(2) (4)					
8.	Whi(1)	ich one is not a cause of resistant hy Hyperaldosteronism Left ventricular hypertrophy			yperte (2) (4)	Obstructive sleep apnoea				
9.	Hen (1)	noptysis due to pu Few minutes	ılmon (2)			curs at	ter how much tir Few Days	ne of (
10.	(1)	cope is uncommor Mitral stenosis Aortic stensis	n in :		(2) (4)		al regurgitation ic Regurgitation			
11.	Fati _{ (1) (3)	gue in a patient of Low output stat Hypokalemia di	e			art fai (2) (4)	lure may be due Beta blocker the All of the above	erapy		
12.	Con (1) (3)	na as a result of he Is common Is present very o		lisease	(2) (4)		ncommon ost never occurs			
13.	Whi (1) (3)	ich one of the follo Slow atrial fibri Atrial flutter wi	llatior	า		r rhyt (2) (4)	hm with a norma Monomorphic Nodal rhythm	al rate ventri	cular tachycardia	

(1) Anterior Myocardial Infarction (2) Complete LBBB (3) Type B WPW Syndrome (4) Cor Pulmonale 15. The QT interval represents the: (1) AV conduction time (2) Refractory period of ventricles (3) Depolarization and repolarization of ventricles (4) Atrial repolarization time 16. Which one is commonest cause of multifocal atrial tachycardia (1) Acute myocardial infarction (2) Hypercalcaemia (3) Chronic obstructive airway disease (4) Quinidine therapy 17. QTc is prolonged in (1) Hypocalcaemia (2) Hypercalcaemia (3) Digitalis toxicity (4) After exercise 18. The left bronchus is recognized radiologically as (1) Longer, narrower, and more horizontal (2) Shorter, wider and more vertical (3) Longer, wider and more vertical (4) Shorter, narrower and more vertical (5) Shorter, narrower and more vertical (6) Shorter, narrower and more vertical (7) Degenerative change in the mitral annulus (8) Always due to rheumatic mitral valve disease (9) May not cause significant haemodynamic change (1) May be associated with aortic valve calcification 20. Which of the following indicate warning sign during treadmill test? (1) Chronotropic incompetence (2) Fall of Blood pressure while walking on treadmill (3) Isolated VPC during recovery (4) Chest pain with ST depression of > 0.5 mm 21. False positive exercise ECG is found in all except (1) Digitalis (2) Phenothiazines (3) WPW syndrome (4) Hypokalemia 22. The most vascular area of human heart is (1) Apex of the heart (2) Diaphragmatic surface (3) Septum (4) Anterolateral wall	14.	Poor	oor progression of 'R' wave in precordial lead is present in all except:								
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22. The most vascular area of human heart is(1) Apex of the heart(2) Diaphragmatic surface		(1)	Digitalis	(2)	Pher	nothiazines					
(1) Apex of the heart (2) Diaphragmatic surface		(3)	WPW syndrome	(4)	Нур	okalemia					
	22.	The 1	most vascular area of human heart	is							
(3) Septum (4) Anterolateral wall		(1)	Apex of the heart		(2)	- 0					
		(3)	Septum		(4)	Anterolateral wall					

23.	Which one is not a component of tetralogy of Fallot?										
	(1)	Right ventricular hypertrophy	(2)	Aort	ic override						
	(3)	Left ventricular hypertrophy	(4)	Ven	tricular septal de	efect					
24.	Which congenital heart disease is common in Down syndrome?										
	(1)	Pulmonary stenosis	(2)	End	ocardial cushion	defec	t				
	(3)	Coarctation of aorta	(4)	Pate	nt ductus artrios	sus					
25.	Symptom and signs of heart failure without myocardial failure is found in										
	(1)		(2)		onic constrictive	perica	rditis				
	(3)	Infective endocarditis	(4)	Aort	ic aneurysm	•					
26.	Thic	Thickened pericardium without constriction may be found in all except									
	(1)	Tubercular pericarditis	(2)	Rhei	Rheumatic heart disease						
	(3)	Sarcoidosis	(4)	Post	mediastinal peri	icardit	is				
27.	Diastolic heart failure is found in all except										
	(1)	Hypertensive heart disease	(2)	Нур	ertrophic cardio	myopa	athy				
	(3)	Effuso - constrictive pericarditis	(4)	Aort	ic stenosis						
28.	First sound is loud in all except										
	(1)	Mitral stenosis	(2)	Sinu	s tachycardia						
	(3)	Viral myocarditis	(4)	WPV	V Syndrome						
29.	All are the major criteria of acute rheumatic fever except										
	(1)	Fever	(2)	Caro							
	(3)	Chorea	(4)	Subc	uiteneous nodul	.e					
30.	In ischemic heart disease the most significant predictor of long term survival is										
	(1)	Extent and number of blocked ar	teries								
	(3)	Previous myocardial infarction		(4)	Number of core	onary	risk factors				
31.	Which one of the following is not a fibrinolytic agent										
	(1)	Streptokinase (2) Tenectepla	ase	(3)	Abciximab	(4)	Alteplase				
32.		In hypertrophic obstructive cardiomyopathy the obstruction is caused by									
	(1)	Asymmetrical septal hypertrophy		Systolic anterior motion of mitral valve							
	(3)	Subaortic muscle bridge	(4)	Sma	ll left ventricle						
33.	Libman sack endocarditis is due to										
		(1) Fungal infection of heart valve									
	(2) Bacterial infection of heart valve										
	(3)	Noninfective vegetation in heart	ın coll	agen	disease						
	(4)	In HIV infection of heart									

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34.	The	common valve af	fected	in precore	dial blu	ınt tra	uma is :		
	(1)	Aortic valve		Mitral va				valve(4)	Tricuspid valve
35.	Duri (1) (3)	ng pregnancy hy 130/80 mm Hg 150/90 mm Hg		sion is dia	gnosed (2) (4)	14 0/	n the blood p 90 mm Hg /95 mm Hg	ressure is	more than
36.	The (1) (3)	commonest assoc Obesity Hypothyroidism		of corona	ry arter (2) (4)	Diab	ease in young etes mellitus ertension dur		
37.	Whice (1) (2) (3) (4)	ich of the following statements is incorrect? Smoking is an important risk factor for coronary artery disease in women Hormone replacement therapy protects women form coronary artery disease Low HDL - cholesterol and high triglyceride are important risk factors Rheumatoid arthritis may be an important risk factor for women							
38.	Righ (1) (2) (3) (4)	t ventricular infa Hypotension, el Hypotension, el Hypotension, at Normotension, e	evated evated rial fib	JVP, Hep JVP, puli rillation, l	oatic co monary loud Pa	ngesti cong	on estion		
39.	All e (1) (3)	xcept one are me Ventricular sepa Left atrium rup	al defe	_	(2) (4)	Acut	ute anterior n e mitral regu ricular free w	rgitation	
40.	The (1) (3)	commonest orgar Streptococci Gram negative l			t prost (2) (4)		hylococci	ditis is	
41.	Whic	ch one is oral dire Argatroban	ect thro	ombin in i Dabigatr		or ? (3)	Warfarin	(4)	Bivaluridin
42.	Willi (1) (3)	ams syndrome co Supravalvular a Microdontia			(2) (4)		facies of the above		
43.	Cont (1) (3)	inuous murmur Patent ductis ar Rupture of sinu	teriosu	ıs	(2) (4)	_	e ventricular onary arteriov	-	
44.	All e (1) (2) (3) (4)	xcept which one Apical displacer Dilated right at Pulmonary hyp Cyanosis	nent of	f septal le			•		

- **45.** Aortic stenosis with complete heart block, normal ejection fraction (EF 64%) should be treated with
 - (1) VVIR Pacemaker
 - (2) DDDR Pacemaker
 - (3) AAI Pacemaker
 - (4) DDD Pace maker with resynchronization therapy
- 46. Following statements about atrial septal defects are true except
 - (1) ASD occurs as an isolated anomaly in 5-10 percent of all CHDs
 - (2) The systolic heart murmur in ASD is because of left to right shunt at atrial level
 - (3) Diastolic murmur at the lower left sternal border could be because of increased flow through the tricuspid valve
 - (4) If left untreated, CHF and pulmonary hypertension may develop in the third or fourth decade of life
- 47. Following statements about Atrial Septal Defects are true except
 - (1) Mild to moderate Cardiac enlargement and provinence of the main and branch pulmonary arteries are characteristic
 - (2) The mean ORS axis in the frontal plane is 90° degrees or greater in 60% of patients
 - (3) Second heart sound is characteristically widely split and fixed.
 - (4) Abnormal left ward 'P' axis is often present in Premium type of ASD.
- 48. Following statements about Ventricular Septal Defects are true except
 - (1) Ventricular septal Defect account for 15 20 percent of all CHDs
 - (2) Ventricular septum may be divided into a large membranous portion and a small muscular portion
 - (3) The muscular septum has three components the inlet, the trabecular and the outlet septum
 - (4) The trabecular septum is further divided into central, marginal and apical portions
- 49. Following statements about Ventricular Septal Defects are true except
 - (1) The magnitude of the shunt is determined by the size of VSD and the level of pulmonary vascular resistance
 - (2) In VSD the LV starts contracting before RV and high pressure gradient is maintained between two ventricles throughout systole-hence the pansystolic murmur
 - (3) Pansystolic murmur end just before A₂
 - (4) P₂ is delayed in large VSD with left to right shunt
- **50.** Following statements about PDA are true except :
 - (1) PDA accounts for 5 10 percent of all CHDs
 - (2) Usually functional closure of the ductus occurs between 2 3 weeks
 - (3) It usually courses from the origin of the left pulmonary artery below to the lower aspect of the aortic arch just beyond the level of the origin of the left subclavian artery above
 - (4) Recurrent branch of the left-vogus nerve circles around its lateral and inferior aspects

- 51. Following statements about PDA are true except
 - (1) PDA is more common in procedure infants especially those with birth asphyxia or respiratory distress
 - (2) Exogenous PGE1 can close the ductus in many premature infants in whom persistent potency is disadvantageous
 - (3) The typical murmur is continuous or machinery murmur
 - (4) Differential cyanosis is a hall mark of PDA with elevated pulmonary vascular resistance and right to left shunt
- 52. Following statements about Aorta Pulmonary Window are true except
 - (1) This consists of communication between the adjacent walls of the ascending aorta and pulmonary trunk
 - (2) The pathophysiology of Ab window is similar to that of a large PDA
 - (3) A moderately restrictive Ab window generates a systolic murmur rather than continuous murmur
 - (4) Apical mid diastolic murmur represents increased flow across the mitral valve
- 53. Following statements about congenital valvular aortic stenosis in children and adolescents are true except
 - (1) An early systolic ejection click at the apex is characteristic and serves to distinguish valvular aortic stenosis from other forms of left ventricular obstruction
 - (2) Aortic stenosis is much more common in females than males with female to male ratio of 4:1
 - (3) A measured pulse pressure < 20 mm suggests serve aortic stenosis
 - (4) Absence of thrill suggests a peak systolic pressure gradient below 30 mm Hg
- 54. Following statements about congenital Pulmonary stenosis are true except
 - (1) Pulmonary stenosis may be valvular; sub valvular or supra valvular
 - (2) Valvular pulmonary stenosis with infact ventricular septum is usually characterized by a dome shaped stenosis of the pulmonary valve and less commonly by dysplasia of the valve
 - (3) Systolic click with expiration, that disappears with inspiration heard at the left upper sternal harder is the hall mark of valvular stenosis
 - (4) Internal between S₁ and the click varies directly with the degree of Pulmonary stenosis
- 55. Following statements about coarctation of the Aorta are true except
 - (1) Among all individuals horn with coarctation, approximately half present within the first month or two if life with heart failure
 - (2) The characteristic Lesion is deformity of the media of the aorta that involves the anterior, superior and posterior wall
 - (3) Notching of the superior margin of the rails on chest x-ray can be seen in older children
 - (4) A figure-three configuration of the left margin of aorta at the level of the coarctation may be seen in the over penetrated chest X-ray of the older children adolescents.

- Following statements of coarctation of the Aorta are true except 56. The murmur from coarctation is medium pitched and systolic best heard posteriorly in the interventricular area A systolic pressure difference between the two arm suggests that the origin of one (2) subclavian artery is at or below the obstruction In older children, ECG is usually normal or may indicate left ventricular and left atrial (3) hypertrophy Two dimensional echocardiographic imaging from Subxiphoid view permit visualization (4)of the coarctation and detection of anatomic variations Following statements about cyanotic spells in the setting of TOK are true except 57. It occurs in young infants (usually after two months and rarely after two years) (1) Consist of working of cyanosis (2)Any event that suddenly lowers the systemic vascular resistance may initiate the spell (3)Auscultation reveals increase of pulmonary ejection murmur during cyanotic spell (4) Following statements about cyanotic congenital heart diseases are true except 58. Hypoxaemia increases renal production of erythropoietin Secondary erythrocytosis should be present in all cyanotic patients (2)Erythrocytosis may cause hyperviscosity syndrome (3) Haemostatic abnormalities fortunately have not been documented in cyanotic patients (4)Following statements about spontaneous closure of septal defects are true except Younger patients have a higher likelihood of spontaneous closure of defects Larger defects have less likelihood of spontaneous closure (2)Primum and sinus venosus type of ASD, if less than 8 mm close before the age of (3)Muscular VSDs have the highest likelihood of spontaneous closure (4) Following cardiac lesions produce cyanotic spells except Tetralogy of Fallot (1)Total Anomalous Pulmonary Venous Convection (2)Double outlet right ventricle with ventricular septal defects and pulmonary stenosis (3) Tricuspid Atresia with Pulmonary stenosis (4)Following statements about Vaughan William classification of drugs are true except 61. Class I Drugs - predominantly block the fast sodium channel Class I A Drugs - reduce V max and shorter action potential (2)Class I B Drugs - do not reduce V max but shorten action potential (3)Class I C Drugs - reduces V max; primarily slow conduction and can prolong refrectoriness minimally.
- 63. Following drugs are likely to depress spontaneous discharge of normal sinus node except

Following drugs have not been classified in four class of drugs - Class I to Class IV as per

(3)

(1) Verapamil

Adenosine

(2) Propranolol

Digoxin

Vaughan William classification except

(2)

(3) Amiodarone

Verapamil

(4) Disopyramide

Magnesium

(4)

(1)

62.

- 64. Following statements about proarrhythmia are true except
 - (1) Proarrhythmic events occur in 25 30 percents of patients
 - (2) It can be manifested as an increase in frequency of pre existing arrhythmia
 - (3) It can be manifested as sustaining of previously non-sustained arrhythmia
 - (4) It can be manifested in development of arrhythmia that the patient has not previously experienced
- 65. Following statements about Amiodarone are true except
 - (1) Displays activity of all four classes of antiarrhythmic agents with major effect of homogenous shortening of action potential
 - (2) It is a broad spectrum antiarrhythmic drug
 - (3) It is effective for PSVT including accessory pathway mediated tachycardia
 - (4) It is moderately effective in converting atrial flutters and fibrilation to sinus rhythm
- 66. Following statements about side effects of Amiodarone are true except
 - (1) Adverse effects are reported by about 75% of patients treated with Amiodarone for 5 years
 - (2) Advance effects are more common when treaty is continued for long term and at higher doses
 - (3) Most adverse effects are irreversible
 - (4) Of the noncardiac adverse reactions; pulmonary toxicity is the most serious
- 67. Following statements about Ibutilide are true except
 - Ibutilide is a useful drug for acute treatment of atrial flutter and fibrillation and their prevention
 - (2) It should not be given in the presence of QTC interval longer than 440 milliseconds
 - (3) It should not be given when uncorrected hypokalemia or bradycordia exist
 - (4) Ibutilide prolongs acessory pathway refractoriness and can temporarily slow the ventricular rate during pre excited atrial fibrillation.
- 68. Following statements about Adenosine are true except
 - (1) It is naturally occurring nucleoside
 - (2) Adenosine is removed from the vascular space by vascular endothelium
 - (3) Atrial fibrillation is occasionally observed with adenosine administration
 - (4) Dose of Adenosine is reduced if the patient is being treated with theophylline
- 69. Following statements about Digoxin are true except
 - (1) It is well absorbed orally and is mobilized in the liver
 - (2) It increases parasympathetic tone
 - (3) Digoxin toxicity is enhanced by low potassium levels
 - (4) Digoxin is not very effective in terminating episodes of acute or recent onset atrial fibrillation
- 70. Following statements about Magnesium are true except
 - (1) The precise mechanism by which it ameliorates arrhythmia is unclear but it has no influence on sodium potassium pump in the cell membrane
 - (2) It is a drug of choice for emergency treatment of Torsade de pointes
 - (3) 1 2 gms of Magnesium sulphate can be infused rapidly over several minutes
 - (4) This toxicity is exacerbated in renal failure

71.	response or multiple pacing; as per NASPE,	ed the ventricle in a triggered mode with no rate /BPEG code will be designated as (3) AOVOTO (4) ATVOO						
	(1) VATOO (2) AVTOO	(3) AOVOTO (4) ATVOO						
70	Following can interfere with functioning of	Following can interfere with functioning of pacemaker except						
72.	(1) Microwave oven (2)							
	(3) MRI Scanners (4)	Radiation Therapy						
73.	Following doctor is considered to the father of Open Heart surgery							
70.	(1) John Lewis (2)							
	(3) Walton Lillehei (4)							
74.	A patient has reported with left thoracoto	omy scar. He could have undergone following						
	closed heart surgery procedures except							
	(1) Ligation of PDA (2)							
	(3) Pott Shunt (4)	Waterston Shunt						
 -	. Following are the ideal characteristics of bl	and numn except						
75.		litres of blood per minute						
	(1) It should be able to pump upto three(2) It should not damage cellular and according to the control of the	ellular components of blood						
	(3) All parts coming in contact with bloom	od should have a smooth surface						
	(4) It should assure no turbulence and n	o stagnation						
76.	Following type of oxygenator is commonly	used as a part of cardiopulmonary bypass circuit						
70.	(1) Film Oxygenator (2)	Disc Oxygenator						
	(3) Bubble Oxygenator (4)	_						
77.	(1) During prefusion, activated clotting time should be below 400 seconds for safe cardiopulmonary bypass (2) Patient should be fully heparinised before the short of cardiopulmonary bypass							
	(3) At the end of surgery, protamine sul	phate is given to neutralize the effect of Heparin						
	(4) The usual dose is 1 to 1.5 milligram of administered	protamine sulphate for each milligram of heparin						
78.	Intra aortic Ballon is contraindicated in fo	llowing except						
-	(1) Severe Aortic Regurgitation (2)) Severe Mitral Regurgitation						
	(3) Aortic Aneurysm (4)) Severe Aorto iliac disease						
79.	9. Following statements about intra aortic ba	illon are true except						
	(1) Tip of the ballon should be placed be	elow the left subclavian artery						
	(2) An inert gas like helium is pumped i							
	(3) Ballon is inflated during systole							
	(4) Synchronisation is achieved by ECG	Trigger or Aortic pressure wave						

- **80.** Following statements about long term patency of conduits to bypass blocks in coronary arteries are true except
 - (1) At the end of ten years, only 50 percent of saphenous vain grafts are patent
 - (2) When LIMA is anastomed to LAD which has more than 70 percent block, patency at the end of two years is 70 percent
 - (3) Long term patency of free internal mammary graft is slightly lower than in Situ internal mammary artery graft
 - (4) Patency of radial artery graft is less than that of IMA but better than venous graft
- 81. Following statements about mechanical revascularisation are true except
 - (1) Assessment of viability of myocardium will help in identifying patients who will benefit
 - (2) Stenosis of 30 percent or more of the left main coronary artery is an indication for angioplasty/CABG
 - (3) If the patient has significant block in proximal LAD (proximal to first septal and first diagonal) and proximal circumflex it will amount to left main disease
 - (4) Patients with triple vessel disease and impaired left ventricular function do better with mechanical revascularisation compared to medical treatment.
- 82. Of the below mentioned arrhythmics, following is the most common after CABG:
 - (1) Atrial Fibrillation
- (2) Atrial Flutter

(3) PSVT

- (4) VT
- 83. Following prosthetic valves have tilting disc except:
 - (1) Bjork Shiley

(2) Chitra

(3) Medtronic Hall

- (4) Starr-Edward
- **84.** Following valve replacement, following statements about post operative auticoagulation are true except
 - (1) Life long anticoagulation is recurred for all patients with mechanical prosthetic valve
 - (2) In the setting of bioprosthetic valve; the risk of thromboembolism is limited to first three months
 - (3) Patients with mitral prosthetic valve in sinus rhythm need lower level of anticoagulation compared to aortic valve
 - (4) In patients who had thromboembolism previously, addition of low dose aspirin is found to be useful along with anticoagulation
- 85. Following statements about complications of prosthetic valve are true except
 - (1) Ventricular rupture could be one of the complication of mitral valve replacement
 - (2) Valve thrombosis can cause sudden deterioration of patients haemodynamics
 - (3) Presence of incompetence rules out possibility of 'struck' valve
 - (4) Mechanical valves may cause haemolysis and related anaemia

- 86. Following are contraindications for Ballon Mitral Valvotomy except
 - (1) Heavy calcification in the commissures
 - (2) Moderate Mitral Regurgitation
 - (3) Severe Pulmonary Hypertension
 - (4) LA Thrombus
- 87. As per ACC/AHA latest guidelines, following are Class I indications for aortic valve replacement except
 - (1) Symptomatic patient with severe AS
 - (2) Asymptomatic patient with severe AS with mean gradient 60 mm across arotic valve
 - (3) Asymptomatic patient with severe AS undergoing CABG
 - (4) Asymptomatic patient with severe AS with ejection fraction less than 0.50
- **88.** As per De Bakey classification of acute aortic dissection, following is the site of origin and extent of De Bakey II type of aortic dissection
 - (1) Ascending aorta extending to arch or beyond
 - (2) Ascending aorta confined to ascending aorta
 - (3) Descending aorta distol to left subclavian artery and confined to it
 - (4) Descending aorta dostal to left subclavian artery and extends into abdominal aorta
- 89. Following statements about ventricular aneurysm are true except
 - (1) 95 percent of ventricular aneurysms occur after transmural myocardial infarction
 - (2) 85 percent of them are on the posterolateral wall of LV
 - (3) A transmural infarct is the prerequisite for the formation of post infarct aneurysm
 - (4) False left ventricular aneurysm can develop after acute rupture of an infarct
- 90. Following statement about aortic aneurysms are true except
 - (1) At least 50 percent of the patients with early thoracic aortic aneurysms are asymptomatic and are priced up during investigations
 - (2) In asymptomatic cases; surgery is indicated when diameter of ascending aorta is 4 cms or larger
 - (3) Rapid rate of expansion and onset of symptoms are other pointers to take into consideration while deciding about timing for surgery
 - (4) Aortic diameter is the most important risk factor for aneurysm rupture or dissection