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MCC-004

POST GRADUATE DIPLOMA IN CLINICAL CARDIOLOGY (PGDCC)

00543

Term-End Examination

December, 2013

MCC-004: COMMON CARDIOVASCULAR DISEASES - II

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 be 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.

1.	Following statements about Spleen and Infective Endocarditis are true except:									
	(1)	Clinical Splenomegaly is a	ı reliable sigr	n of splenic abscess						
	(2)	Abdominal CT or MRI app	pear to be the	e best tests for diagnosis of splenic abscess						
	(3)	Persistent or recurrent bacteremia, persistent fever or other signs of sepsis may suggest splenic abscess								
	(4)	Where indicated in the setting of splenic abscess, splenectomy should be performed before valve replacement surgery								
2.	Majo	or Duke clinical criteria for o	diagnosis of I	Infective Endocarditis includes all except :						
	(1)	Fever								
	(2)	New valvular regurgitation								
	(3)	Intra cardiac mass								
	(4)	Positive blood culture for typical micro organisms								
3.	If Infective Endocarditis suspected initial TEE done in all except :									
	(1)	Prosthetic valve								
	(2)	High risk for endocarditis related complications								
	(3)	Low clinical suspicion								
	(4)	Difficult imaging								
4.	Carc	liac disorder with very low	risk of Infect	tive Endocarditis is :						
	(1)	MS	(2)	ASD (Secundum)						
	(3)	TGA	(4)	VSD						
5.	•	g which is especially added to endocarditis is :	to the usual r	egimen only in the treatment of prosthetic						
	(1)	Penicillin	(2)	Rifampicin						
	(3)	Ceftriaxone	(4)	Gentamicin						
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6.	Absolute indications for surgery in patients with Infective Endocarditis are all except :								
	(1)	Perivalvular extension of Infection	on, In	tracardiac fistula					
	(2)	Unstable prosthesis							
	(3)	Unavailable effective antimicrobi	al the	erapy					
	(4)	Uncontrolled Infection despite op	otima	l antimicrobial therapy					
7.	~	ether all of the following bacteria are ocarditis except:	e respo	onsible for >80% of all instances of infective					
	(1)	Staphylococcus aureus	(2)	Streptococcus species					
	(3)	Entero cocci	(4)	HACEK group					
8.	Cult	ure Negative mimics of infective e	ndoca	arditis are all except :					
	(1)	Atrial myxoma							
	(2) Acute Rheumatic fever								
	(3)	Thrombotic thrombocytopenic purpura							
	(4)	Idiopathic thrombocytopenic pur	rpura						
9.	Imm	unological phenomenon are all ex	cept :						
	(1)	Janeway lesion	(2)	Osler's nodes					
	(3)	Roth's spots	(4)	Glomerulonephritis					
10.	Mino	or Jones criteria for diagnosis of Ac	cute R	Rheumatic fever are all except :					
	(1)	Fever	(2)	arthralgia					
	(3)	arthritis	(4)	leucocytosis					
11.	In ne	eonates infective endocarditis typic	ally i	nvolves :					
	(1)	Mitral valve of structurally norm	al hea	nrt					
	(2)	Mitral valve of structurally abnor	mal l	neart					
	(3)	Tricuspid valve of structurally ab	norm	al heart					
	(4)	Tricuspid valve of structurally no	rmal	heart					

12. Mycotic aneurysms due to Infective endocarditis occur most frequently in :										
	(1)	visceral artery	(2)	Intracranial artery						
	(3)	Arteries of upper limbs	(4)	Arteries of lower limbs						
13.	ECG	G changes in acute pericarditis are	all exc	cept :						
	(1)	PR segment depression		·						
	(2)	ST segment elevation with conca	vity u	ipwords and widespread						
	(3)	No reciprocal ST change								
	(4)	Development of Q wave								
14.	Mos	t sensitive sign of cardiac tampona	ade or	n Echo :						
	(1)	Swinging heart motion								
	(2)	RA diastolic collapse								
	(3)									
	(4)	Respiratory variation of atrioven	itricul	ar valve flow patterns						
15.	Sign	s associated with CCP are all exce	ept :							
	(1)	Kussmaul's sign	(2)	Friedrich's's sign						
	(3)	Carbello's sign	(4)	Square root sign						
16.	Path	nological hallmark of Rheumatic ca	ırditis	is:						
	(1)	Pancarditis (2) Aschoff b	ody	(3) Aschoff nodules (4) Valvulitis						
17.	In ac	cute Infective endocarditis, commo	onest o	organism is :						
	(1)	Staphylococcus aurous	(2)	Streptococcus viridans						
	(3)	Streptococcus haemolyticus	(4)	Enterococci						
18.	In n	ative valve endocarditis, CHF occu	ırs mo	ore frequently with Infection of :						
	(1)	Tricuspid valve	(2)	Mitral valve						
	(3)	Aortic valve	(4)	Pulmonary valve						

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19.	Anti coagulation is contraindicated in :											
	(1)	Native valve endocarditis										
	(2)	Prosthetic valve endocarditis										
	(3)	Both in native and prosthetic valve										
	(4)) In prosthetic valve endocarditis without embolic episode										
20.	The	e highest incidence of embolic even	ts is s	een in all except :								
	(1)	Aortic valve infections	(2)	Mitral valve infections								
	(3)	Tricuspid valve infections	(4)	Prosthetic valve infections at any place								
21.	Cha	nces of embolism in infective endo	cardit	is is less with infection by :								
	(1)	Staphylococcus aureus	(2)	Streptococcus viridans								
	(3)	Candida	(4)	HACEK								
22.	Puls	us paradoxus is not found in :										
	(1)	Acute LVF	(2)	Cardiac tamponade								
	(3)	Effusive constrictive pericarditis	(4)	COAD								
23.	GAS	6 throat infection leads to acute rhe	eumat	ic fever in :								
	(1)	0.3 - 3% (2) $3 - 13%$		$(3) 13 - 30\% \qquad (4) < 0.3\%$								
24.	High	n ASO titre indicates :										
	(1) (3)	Recent GAS infection Rheumatic heart disease	(2) (4)	Acute Rheumatic fever Infective endocarditis								
25.	Drug	g of choice for secondary preventio	on of r	heumatic fever is :								
	(1)	Sulfa diazine	(2)	Erythromycin								
	(3)	Benzthine penicillin	(4)	Oral penicillin								

26.	Roth	i's spot are seen in :					
	(1)	Heart	(2)	Paln	ns		
	(3)	Fundus	(4)	Phar	rynx		
27.		ne setting of native valve infective mon in the following valves:	e end	ocard	litis periannula:	r extens	sion is more
	(1)	Mitral (2) Aortic		(3)	Tricuspid	(4)	Pulmonary
28.	Follo	owing gram -ve bacteria form part o	of so	called	HACEK group	except	:
	(1)	Haemophilus	(2)	Actin	no bacillus Actin	ıomycet	tem comitans
	(3)	Cardiobacterium hominis	(4)	Kleb	siella pneumoni	ia	
29.		commonest micro organism for pro surgery is :	stheti	c valv	ve endocarditis v	within 2	2 - 12 months
	(1)	Coagulase negative staphylococci	(2)	Stap	hylococcus aure	eus	
	(3)	Gram -ve bacilli	(4)	Fung	gi candida speci	es	
30.	Follo	owing statements about Antistrepto	lysin	O (A9	SO) titre are tru	e excep	·t:
	(1)	When two serum samples are take test is considered positive.	en at 2	2 - 4 w	veeks interval, s	how a t	wo fold rise,
	(2)	ASO titre >250>Todd units in adu	lts is	positi	ive		
	(3)	ASO titre >333>Todd units in chil	dren	is pos	sitive		
	(4)	ASO titre remains elevated longer	than	Anti-	-DNA are B titre	e	
31.	Follo	owing statements about Acute Rheu	ımatio	card	litis are true exc	ept :	
	(1)	If the first episode of Acute rher recurrences also manifest carditis	umati	c fev	er is accompan	ied by	carditis, the
	(2)	Mid diastolic murmur at mitral ar	ea ma	ay be	heard.		
	(3)	Pansystolic murmur at mitral area	ì				
	(4)	Heart blocks never occur					

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32.	Sign absent in Acute Severe MR is :									
	(1)	S3	(2)	S4						
	(3)	Cardiomegaly	(4)	Shoi	rt ofte	n inaudible	systo:	lic mu	rmur	
33.	Follo	owing symptoms and life span con	nbinat	tion in	a AS is	s true excep	ot:			
	(1)	Angina - 5 yrs	(2)	Syno	cope -	3 yrs				
	(3)	Heart failure symptoms - 6 yrs	(4)	Non	ie					
34.	Con	aplication of MS which is not relate	ed to s	severi	ty are	all except :				
	(1)	AF (2) IE		(3)	Hen	nophysis		(4)	PAH	
35.	Severity of MS is decided clinically by all of the following except :									
	(1)	Length of diastolic murmur	(2)	A ₂ -	OS ga	ар				
	(3)	Loudness of first heart sound	(4)	PAF	I					
36.	Mos	st accurate method of measuring M	IVA o	n Ech	o is :					
	(1)	Planimetry (2) Continuity	y equa	ation	(3)	PHT	(4)	PISA		
37.	Mea	in gradient across mitral valve on (CWD	which	ı indic	cates severe	steno	sis is :		
	(1)	> 5 mm Hg	(2)	> 2 1	mm H	[g				
	(3)	> 7 mm Hg	(4)	> 10	mm l	Hg				
38.	Seve	ere MR on Echo is diagnosed by all	l excep	ot :						
	(1)	MR jet reaches posterior wall of	LA							
	(2)	Pulmonary vein systolic flow rev	ersal							
	(3)	Disruption of mitral valve appar	atus							
	(4)	LA size is ≥ 5.5 cm								

In p	atients with acute rheumatic fever, which is false :								
(1)	About 40% develop carditis								
(2)	About 66% of patients with cardi	itis de	velop RHD on follow up						
(3)									
(4)	4) Erymema margination is a rare manifestation								
Caus	ses of hemophysis in MS are all ex	cept :							
(1)	Pulmonary apoplexy	(2)	Pulmonary embolism						
(3)	Winter bronchitis	(4)	Infective endocarditis						
In pa	atients with low gradient severe A	S dob	utamine infusion results in all except :						
(1) Minimal or no increase in aortic valve area									
(2) Transaortic gradient decreases									
(3) Indicates benefit from aortic valve replacement									
(4)	Increase in peak velocity								
Septa	al ablation in hypertrophic cardio	myop	athy can cause all except :						
(1)	Reduction of LVOT obstruction	(2)	Reduction of MR						
(3)	Complete heart block	(4)	Atrial fibrillation						
	7	tive e	endocarditis on treatment with sensitive						
(1)	Hypersensitivity to antibiotics								
(2)	Metastatic abscess								
(3)	Always microbial resistance to tr	eatme	ent						
(4)	Catheter related infection								
	(1) (2) (3) (4) Caus (1) (3) In pa (1) (2) (3) (4) Septa (1) (3) Persiantib (1) (2) (3)	(1) About 40% develop carditis (2) About 66% of patients with cardi (3) Carditis is the most common ma (4) Erythema margination is a rare of the cardinary of the cardinary application of the	(1) About 40% develop carditis (2) About 66% of patients with carditis de (3) Carditis is the most common manifesta (4) Erythema margination is a rare manife (4) Erythema margination is a rare manife (5) Causes of hemophysis in MS are all except: (1) Pulmonary apoplexy (2) (3) Winter bronchitis (4) In patients with low gradient severe AS dob (1) Minimal or no increase in aortic valve (2) Transaortic gradient decreases (3) Indicates benefit from aortic valve rep (4) Increase in peak velocity Septal ablation in hypertrophic cardio myop (1) Reduction of LVOT obstruction (2) (3) Complete heart block (4) Persistent fever in patients with infective eantibiotics may indicate all except: (1) Hypersensitivity to antibiotics (2) Metastatic abscess (3) Always microbial resistance to treatments						

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44.	4. Open mitral valvotomy is better than ballon mitral vavotomy because:										
	(1)	It has better immediate and long	term	results							
	(2)	(2) It has less morbidity									
	(3)) It requires shorter hospitalization									
	(4)	It is useful in patients with clots	in the	left atrium							
45.	Pregnancy is tolerated in patients with Mitral stenosis in all except :										
	(1)	Mitral stenosis is mild or modera	ate								
	(2)	(2) Close medical supervision is available									
	(3)	(3) Mitral valve area is < 1 sq cm									
	(4)	Balloon mitral valvotomy could l	be dor	ne at the appropriate time							
1 6.	Mur	rmur of HOCM increase with all ex	xcept :	:							
	(1)	Valsalva (2) Standing		(3) Bradycardia (4) Digitalis							
47.	Dila	ted Cardiomyopathy occurs with a	all exc	ept:							
	(1)	Alcohol	(2)	Loeffler's syndrome							
	(3)	Viral myocarditis	(4)	Peripartum cardiomyopathy							
18.	Carc	cinoid syndrome involves which va	alve p	rimarily :							
	(1)	Mitral valve	(2)	Aortic valve							
	(3)	Tricuspid valve	(4)	Pulmonary valve							
19.	Whi	ch of the following drugs does not	have	mortality benefit in DCMP:							
	(1)	Furosemide	(2)	ACEI							
	(3)	Carvedilol	(4)	Spironolactose							
50.	Ewa	rt's sign is found in :									
	(1)	Large pericadial effusion	(2)	Acute AWMI							
	(3)	Complete AV block	(4)	HOCM							
			-								

51.	Nocturnal angina is a classical feature of :									
	(1)	РАН	(2)	MS	(3)	Severe AR	(4)	Severe AS		
52.	Poss	sibility of sudden	cardi	ac death i	n asymn	tomatic severe AS i	c·			
J.L.		•		ac death i			5.			
	(1)	0.4% per annur	n		(2)	4% per annum				
	(3)	2% per annum			(4)	10% per annum				
53.	If M	IR murmur radiat	es tov	vards axil	lla it indi	cates all except :				
	(1)	Anterior leaflet	abno	rmality	(2)	Posterior leaflet ab	normalit	у		
	(3)	Ischaemic cardi	omyo	pathy	(4)	Dilated cardiomyo	pathy			
54.	In c	hronic MR witho	at LVI	₹:						
	(1)	LVEF is Norma	1		(2)	LVEF is more than	normal			
	(3)	LVEF is less tha	n Noi	mal	(4)	LVEF improves aft	ter surge:	ry		
55.	Ballo	oon aortic valvulc	plasty	v (BAV) is	s the pro	cedure of choice in	AS in :			
	(1)	All valvular AS								
	(2)	In severe AS in	adult	with No	rmal LV	function				
	(3) In children and young individuals									
	(4)	In elderly patie	nts wi	th calcifie	ed valves					
56.	Whi	ch is wrong state:	ment :	in relatioi	n to seve	re AR :				
	(1)	Peripheral signs	of Al	R are not	seen in a	acute AR				
	(2)	Peripheral signs	of A	R are mai	rked witl	n left ventricular dy	sfunction	n		
	(3)	Peripheral signs	are b	etter dete	ected wit	h associated AS				
	(4)	Peripheral signs	indic	ates seve	rity of A	R with normal left	ventricul	ar function		

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57.	. Which is wrong statements in relation to stabilization of patient with Acute severe AR:							
	(1)	Vasodilator like Nitroprusside is helpful						
	(2)	Inotropes may be used						
	(3)	Beta blocker are not indicated						
	(4)	IABP is indicated						
58.	Gall	avardin phenomenon is found in :						
	(1)	AS (2) AR (3) MS (4) MS and AR						
59.	Pote	ential reversible cause of dilated cardiomyopathy are all except :						
	(1)	Anthracycline cardiomyopathy						
	(2)	Tachycardiomyopathy						
	(3)	Alcoholic cardiomyopathy						
	(4)	Arrhythmogenic right ventricular Cardiomyopathy						
60.	In R	Restrictive cardiomyopathy following are found except :						
	(1)	Heart is not or only minimally dilated						
	(2)	Both atria are enlarged						
	(3)	Symptoms of both pulmonary and systemic congestion						
	(4)	BBB on ECG is uncommon						
61.		ich of the following combination increase outflow gradient and systolic murmur in CM:						
	(1)	↓ Contractility, ↓ preload, ↓ afterload						
	(2)	↑ Contractility, ↓ preload, ↓ afterload						
	(3)	↓ Contractility, ↑ preload, ↑afterload						
	(4)	↑ Contractility, ↑ preload, ↓ afterload						

62.	Foll	llowing indicates adverse outcomes in HOCM except:								
	(1)	History of synd	cope/	SCD						
	(2)	Severe LVH > 33 mm								
	(3)) LVOT obstruction > 30 mmHg at rest								
	(4)	Late onset of di	isease							
63.	Мус	ocarditis should b	e sus	pected unde	er follo	owing	circumstances	except :		
	(1) (2)	,								
	(3)	Ventricular tacl	nyarry	thmia in al	sence	of ob	vious cause			
	(4)	Almost all case	s of p	repartum ca	ardion	nyopa	thy			
64.	The	valve area of mo	derate	e AS is:						
	(1)	3 cm ²	(2)	1.5 cm ²		(3)	< 1 cm ²	(4)	$> 1.5 \text{ cm}^2$	
65.	ECG	change not usua	illy se	en in AS						
	(1)	RBBB	(2)	1° Heart b	olock	(3)	СНВ	(4)	AF	
	()	•	()			()		(-)		
66.	Seve	re AR presents tl	ne foll	owing featu	ıre in	echo o	cardiography :			
	(1)	Holodiastolic flo	ow re	versal in de	scendi	ng ao	rta			
	(2)	Regurgitant jet	width	ı/LVOT dia	ımeter	≤30%	6			
	(3)	PHT ≥ 400 mse	ec							
	(4)	LVEDD ≤ 60 m	ım							
67.	·Seve	re primary TR w	ill not	have symp	tom o	f :				
	(1)	Fatigue		<i>J</i> 1	(2)		t intolerance			
	(3)	Abdominal fulls	ness		(4)	PND				
	` /				` /					
68.	Systo	olic murmur incre	eases	with Valsal	va ma	nonev	er in :			
	(1)	Valvular AS	(2)	MR		(3)	AS	(4)	HOCM	

69.	Follo	owing drug is be	neficia	I in a patier	nt of N	/IK in s	sinus rhythm :		
	(1)	Beta blocker	(2)	Digoxin		(3)	Vasodilator	(4)	Diuretic
70.	The	following patient	ts of N	IR do bette	r after	mitral	valve surgery :		
	(1)	With preserved	LV ft	ınction	(2)	High	NYHA class		
	(3)	Large LVEDV			(4)	With	poor LV functi	on	
71.	Patie	ents with chronic	sever	e AR may l	oe:				
	(1)	Symptomatic ve	ery ea	rly					
	(2)	Asymptomatic	for ma	any years					
	(3)	Present with L	V dys	fuction very	early	•			
	(4)	Present with su	ıdden	death					
72.	In T	S following is no	t seen	clinically:				4.	
	(1)	Prominet a way	ve		(2)	Slow	y descent		
	(3)	Diastolic murm	nur		(4)	Seve	re PAH		
73.	ECC	G of Arrhythmoge	enic Ri	ght Ventric	ular d	ysplas	ia shows followi	ing fea	tures except :
	(1)	Inverted T in ri	ght pr	ecordial lea	ıd				
	(2)	Tall T in V_5 , V_6	ı						
	(3)	VT of RV origin	n						
	(4)	VT with LBBB	patter	n					
74.	BMV	V score of what p	redict	s a favoura	ble ou	tcome	:		
	(1)	< 8/16	(2)	<9/16		(3)	< 7/17	(4)	< 8/17
75.	All o	of the following v	would	increase the	e peak	gradi	ent across mitra	l valve	except :
	(1)	AF C FVR	(2)	Fever	(3)	Sinu	s Bradycardia	(4)	Anaemia

76.	Mitral Balloon valvuloplasty is not recommended in all except :									
	(1) LA or LAA clot									
	(2) Low valve score(3) Extensive calcification(4) Associated Moderate to severe MR									
77.	7. Sudden worsening of symptoms in a stable patient of chronic MR is not due									
	(1)									
	(3)	Onset of AF (4)		nus tachycardia						
78.	Surgery is not indicated in a patient of MR in :									
	(1)	Asymptomatic patient with normal LV function								
	(2) Symptomatic patient with normal LV function									
	(3)	Asymptomatic patient with LVEF < 60%								
	(4)	Asymptomatic patient with LVESD > 45 mm								
79.	. X-ray chest findings in pure compensated AS can be all except :									
	(1)	Post stenotic dilatation aorta	(2)	Calcification of aortic valve						
	(3)	Cardiomegaly	(4)	Mitral annular calcification						
00										
80.	Ü	ina is more pronounced in patier		0.						
	(1)	Bicuspid aortic valve	(2)							
	(3)	Syphilitic	(4)) Marfan						
81.	1. Surgery is indicated in patients of Asymtomatic severe AR with one of the fo									
	(1)	LVEF < 50%, LVESD > 55 mm	(2)	LVEF > 50%, LVESD < 55 mm						
	(3)	LVEF < 50%, LVESD < 55 mm	(4)	LVEF > 50%, LVESD > 55 mm						

04.	1110	Thouspid regulgitation murmur increases on inspiration, this is called.							
	(1)	Carey coomlis sign	(2)	Corrigan's sign					
	(3)	Carvello's sign	(4)	Gallavardin sign					
83.	Tricuspid stenosis is considered significant when :								
	(1)	$MG \le 7 \text{ mmHg or PHT} \le 190 \text{ msec}$							
	(2)	$MG \ge 7 \text{ mmHg or PHT} \ge 190 \text{ msec}$							
	(3)	$MG \le 7 \text{ mmHg or PHT} \ge 190 \text{ msec}$							
	(4)	$MG \ge 7 \text{ mmHg or PHT} \le 190 \text{ m}$	sec						
84.	Echo scoring to predict valvuloplasty outcomes depends on following points except :								
	(1)	Mobility of leaflets	(2)	Calcification					
	(3)	Subvalvular apparatus	(4)	MR					
85.	Find out wrong statement in relation to severe AS:								
	(1)	Only 50% of patients with degenerative AS have associated CAD							
	(2)	LV diastolic dysfunction sets in early							
	(3)	IE is common in calcific AS							
	(4)	Angio dysplasia of ascending colon is a known association of severe valvular AS							
86.	Adverse outcome in Dilated cardiomyopathy is due to all except :								
	(1)	Low EF							
	(2)	Low LV mass							
	(3)	Low exercise peak O ₂ consumption							
	(4)	≤ Moderate MR							
37.	Most common cause of Myocarditis is because of following Infection :								
	(1)	Coxsackie B virus	(2)	HIV					
	(3)	CMV	(4)	HCV					

88.	Following	are t	rue of	HOCM	except
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- (1) It is a genetic disorder due to mutations in the gene that encodes for B cardiac myosin heavy chain
- (2) Echocardiographic changes usually precedes the onset of ECG changes
- (3) There is asymmetric septal hypertrophy as seen by septal to posterior wall thickness ratio of ≥ 1.5
- (4) Interventional treatment is indicated when disease is refractory to medical treatment and gradient of at least 50 mmHg across LVOT
- 89. Mac Collum's path is found in:
 - (1) LA
- (2) RA
- (3) LV
- (4) RV
- 90. Following statements about electrocardiographic changes in MS are true except:
 - (1) P wave axis is usually between +45 to -30°
 - (2) QRS axis correlates well with the severity of MS and degree of pulmonary hypertension
 - (3) QRS axis $< 60^{\circ}$ suggest a valve area $< 1.3 \text{ cm}^2$
 - (4) Absence of Right axis deviation in the presence of features of pulmonary hypertension should suggest other associated lenons causing LVH

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