

Peds Echo AUC Final Ratings		Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Rater 6	Rater 7	Rater 8	Rater 9	Rater 10	Rater 11	Rater 12	Rater 13	Rater 14	Rater 15	Median	MADM	Rating	Agree	Disagree
<b>Table 1: Palpitations and Arrhythmias</b>																					
<b>Palpitations</b>																					
1	Palpitations with no other symptoms or signs of cardiovascular disease, a benign family history, and no recent ECG	2	1	2	2	2	2	1	2	1	1	1	3	1	2	2	2	0.3	R	+	
2	Palpitations with no other symptoms or signs of cardiovascular disease, a benign family history, and a normal ECG	1	1	1	1	3	1	1	1	1	1	3	3	1	1	1	1	0.3	R	+	
3	Palpitations with abnormal ECG	5	4	5	6	7	7	7	8	6	5	6	6	5	5	6	6	0.7	M	+	
4	Palpitations with family history of a channelopathy	2	1	3	2	3	3	5	5	4	5	4	5	3	6	2	3	1.1	R		
5	Palpitations in a patient with known channelopathy	4	9	4	4	3	4	7	5	6	5	4	8	4	7	4	4	1.1	M		
6	Palpitations with family history at a young age (before the age of 50 years) of sudden cardiac arrest or death and/or pacemaker or implantable defibrillator placement	5	4	7	7	8	7	7	9	9	5	6	6	9	7	7	7	0.9	A		
7	Palpitations with family history of cardiomyopathy	4	9	6	9	9	9	8	8	9	5	9	9	9	7	6	9	1.3	A	+	
8	Palpitations in a patient with known cardiomyopathy	7	9	7	9	9	9	9	7	9	9	9	9	9	7	8	9	0.6	A		
<b>ECG Findings</b>																					
9	PACs in the prenatal or neonatal period	2	3	2	3	3	3	4	2	2	1	3	3	3	3	1	3	0.6	R	+	
10	PACs after the neonatal period	2	3	3	4	2	6	4	2	2	4	4	3	3	2	2	3	0.9	R		
11	Supraventricular tachycardia	7	8	7	7	8	8	5	7	6	5	7	7	8	7	6	7	0.6	A	+	
12	PVCs in the prenatal or neonatal period	7	6	6	5	6	7	6	7	5	6	6	6	6	5	5	6	0.5	M	+	
13	PVCs after the neonatal period	7	8	6	8	5	7	6	6	5	6	7	6	7	4	6	6	0.7	M		
14	Ventricular tachycardia	9	9	8	9	9	8	8	9	7	8	9	9	9	8	7	9	0.6	A	+	
15	Sinus bradycardia	2	1	2	3	2	2	2	1	5	1	3	1	3	2	3	2	0.6	R	+	
16	Sinus arrhythmia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0	R	+	
<b>Table 2: Syncope</b>																					
17	Syncope with or without palpitations and with no recent ECG	3	1	5	5	5	5	2	3	1	6	3	4	2	3	2	3	1.1	R		
18	Syncope with no other symptoms or signs of cardiovascular disease, a benign family history, and a normal ECG	2	1	2	2	3	3	2	2	1	3	2	4	2	2	1	2	0.4	R	+	
19	Syncope with abnormal ECG	7	9	7	9	7	7	8	9	5	6	8	9	7	9	6	7	0.9	A	+	

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20	Syncope with family history of channelopathy	6	1	4	5	5	5	7	8	6	6	4	7	4	5	4	5	1.0	M	+	
21	Syncope with family history at a young age (before the age of 50 years) of sudden cardiac arrest or death and/or pacemaker or implantable defibrillator placement	7	9	7	8	9	7	8	9	9	6	9	9	9	9	7	9	0.9	A	+	
22	Syncope with family history of cardiomyopathy	9	9	8	9	9	9	9	9	9	7	9	9	9	9	8	9	0.3	A	+	
23	Probable neurocardiogenic (vasovagal) syncope	4	1	2	2	4	2	2	1	1	2	3	2	3	3	2	2	0.6	R	+	
24	Unexplained pre-syncope	7	4	6	4	2	3	6	2	2	1	7	3	8	4	6	4	1.5	M		
25	Exertional syncope	7	9	9	9	9	9	9	9	9	7	7	9	9	9	8	9	0.5	A	+	
26	Unexplained post-exertional syncope	8	4	7	8	6	6	9	9	4	6	6	7	7	9	6	7	1.3	A		
27	Syncope or pre-syncope with a known non-cardiovascular cause	2	1	2	4	2	3	2	2	1	4	1	3	2	2	2	2	0.5	R	+	

**Table 3: Chest Pain**

28	Chest pain with no other symptoms or signs of cardiovascular disease, a benign family history, and a normal ECG	2	1	2	1	2	3	1	2	1	1	2	3	2	1	2	2	0.5	R	+	
29	Chest pain with other symptoms or signs of cardiovascular disease, a benign family history, and a normal ECG	6	6	7	7	7	7	5	8	7	6	6	6	4	6	7	6	0.6	M		
30	Exertional chest pain	9	8	8	9	9	9	7	9	7	7	7	7	7	9	6	8	0.8	A	+	
31	Non-exertional chest pain with no recent ECG	1	5	4	2	4	4	1	4	1	1	1	3	2	5	4	3	1.3	R		
32	Non-exertional chest pain with normal ECG	1	1	3	2	4	1	1	1	1	1	1	3	2	3	3	1	0.7	R	+	
33	Non-exertional chest pain with abnormal ECG	7	9	7	8	8	7	7	7	6	5	5	7	7	8	8	7	0.7	A	+	
34	Chest pain with family history of sudden unexplained death or cardiomyopathy	7	9	8	9	8	8	8	9	9	6	9	9	8	9	8	8	0.6	A	+	
35	Chest pain with family history of premature coronary artery disease	4	4	4	5	4	4	5	2	4	2	6	5	6	6	5	4	0.7	M	+	
36	Chest pain with recent onset of fever	6	6	6	5	5	6	5	7	4	5	6	6	7	6	6	6	0.5	M	+	
37	Reproducible chest pain with palpation or deep inspiration	1	1	1	1	1	1	1	1	1	2	1	2	1	1	3	1	0.2	R	+	
38	Chest pain with recent illicit drug use	7	7	6	6	7	6	8	7	4	5	6	6	5	7	7	6	0.7	M		

**Table 4: Murmur**

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39	Presumptively innocent murmur with no symptoms, signs, or findings of cardiovascular disease and a benign family history	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0.1	R	+	
40	Presumptively innocent murmur with signs, symptoms, or findings of cardiovascular disease	6	9	7	7	7	7	8	8	8	7	5	7	7	7	7	7	0.5	A	+	
41	Pathologic murmur	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0.0	A	+	

**Table 5: Other Symptoms and Signs**

42	Symptoms and/or signs suggestive of congestive heart failure, including but not limited to respiratory distress, poor peripheral pulses, feeding difficulty, decreased urine output, edema and/or hepatomegaly	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0.0	A	+	
43	Chest wall deformities and scoliosis pre-operatively	5	7	5	6	3	6	4	7	6	6	6	6	6	7	4	6	0.8	M	+	
44	Fatigue with no other signs and symptoms of cardiovascular disease, a normal ECG, and a benign family history	2	1	3	1	4	1	5	1	2	1	3	3	5	3	4	3	1.1	R	+	
45	Signs and symptoms of endocarditis in the absence of blood culture data or a negative blood culture	7	7	8	9	7	7	5	8	8	9	8	9	7	9	6	8	0.8	A	+	
46	Unexplained fever without other evidence for cardiovascular or systemic involvement	5	1	3	3	4	3	3	6	5	5	6	6	3	6	5	5	1.1	M		
47	Central cyanosis	8	7	7	9	9	7	8	9	7	8	7	9	7	9	9	8	0.7	A	+	
48	Isolated acrocyanosis	2	1	2	1	2	1	4	1	1	2	1	1	2	1	4	1	0.7	R	+	

**Table 6: Prior Test Results**

49	Known channelopathy	6	2	3	4	4	3	4	6	4	3	4	9	2	6	4	4	0.7	M	+	
50	Genotype positive for cardiomyopathy	9	9	8	9	9	8	8	9	3	8	5	9	9	9	7	9	1.1	A	+	
51	Abnormal chest X-ray findings suggestive of cardiovascular disease	9	9	8	9	8	9	9	9	8	9	8	9	8	9	8	9	0.3	A		
52	Abnormal ECG without symptoms	6	9	6	7	8	6	8	8	5	6	5	7	7	8	6	7	1.0	A		
53	Desaturation based on pulse oximetry	9	9	9	7	8	8	9	9	3	9	8	9	9	9	6	9	0.9	A	+	
54	Previously normal echocardiogram with no change in cardiovascular status or family history	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0.1	R	+	

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55	Previously normal echocardiogram with a change in cardiovascular status and/or a new family history suggestive of heritable heart disease	7	7	7	7	7	8	7	7	7	6	5	7	7	4	7	7	0.5	A	+	
56	Elevated anti-streptolysin O titers without suspicion for rheumatic fever	1	1	3	2	1	3	3	5	1	4	3	3	1	3	2	3	0.9	R	+	
57	Chromosomal abnormality known to be associated with cardiovascular disease	9	9	8	9	8	9	9	9	8	9	5	9	7	7	9	9	0.6	A	+	
58	Chromosomal abnormality with undefined risk for cardiovascular disease	6	4	5	4	4	5	6	4	3	5	2	6	5	5	5	5	0.7	M	+	
59	Positive blood cultures suggestive of infective endocarditis	9	9	9	9	9	9	8	9	9	9	9	9	8	9	8	9	0.1	A	+	
60	Abnormal cardiac enzymes	7	9	8	9	9	7	9	9	5	9	8	9	9	9	9	9	0.7	A	+	
61	Abnormal barium swallow or bronchoscopy suggesting vascular ring	8	9	6	7	7	7	2	6	7	7	7	6	8	8	7	7	0.7	A	+	

**Table 7: Systemic Disorders**

62	Cancer without chemotherapy	5	5	3	5	5	5	5	4	3	6	4	3	5	6	5	5	0.5	M	+	
63	Prior to or during chemotherapy in cancer	9	9	8	8	9	8	8	7	4	8	7	8	9	9	6	8	0.8	A	+	
64	Sickle cell disease and other hemoglobinopathies	8	8	7	8	8	8	8	8	9	8	7	8	8	7	6	8	0.4	A	+	
65	Connective tissue disorder such as Marfan, Loeys Dietz, and other aortopathy syndromes	9	9	9	9	9	9	8	9	9	9	9	9	9	9	8	9	0.1	A	+	
66	Suspected connective tissue disorder	8	8	7	7	8	7	8	7	4	8	5	7	7	9	7	7	0.8	A	+	
67	Clinically suspected syndrome or extracardiac congenital anomaly known to be associated with congenital heart disease	9	9	9	9	8	9	9	8	7	9	8	9	7	9	8	9	0.4	A	+	
68	Human immunodeficiency virus infection	7	9	6	9	8	8	8	7	9	9	7	7	7	9	7	8	0.7	A	+	
69	Suspected or confirmed Kawasaki disease	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0.0	A	+	
70	Suspected or confirmed Takayasu arteritis	9	9	8	9	9	9	9	9	9	9	7	9	7	9	9	9	0.2	A	+	
71	Suspected or confirmed acute rheumatic fever	9	9	9	9	9	9	9	8	9	9	9	9	8	9	9	9	0.1	A	+	
72	Systemic lupus erythematosus and autoimmune disorders	7	9	6	8	8	7	9	6	6	8	5	7	6	7	7	7	0.8	A		
73	Muscular dystrophy	9	9	8	9	9	8	9	9	5	9	7	9	9	9	7	9	0.7	A	+	
74	Systemic hypertension	9	9	8	9	9	9	9	6	2	7	7	9	8	7	9	9	1.1	A	+	
75	Renal failure	8	6	7	9	7	8	7	5	7	8	5	7	8	7	7	7	0.7	A	+	
76	Obesity without other cardiovascular risk factors	2	3	2	2	2	3	4	1	1	4	1	3	3	1	3	2	0.7	R	+	

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77	Obesity with obstructive sleep apnea	6	4	6	7	7	7	7	5	2	7	4	7	6	4	6	6	1.1	M		
78	Obesity with other cardiovascular risk factors	7	2	6	4	6	6	7	1	3	4	4	3	6	6	7	6	1.4	M		
79	Diabetes mellitus	3	3	3	3	3	2	3	1	1	3	3	3	3	2	3	3	0.4	R	+	
80	Lipid disorders	3	3	4	4	3	2	3	1	3	3	3	3	2	2	3	3	0.4	R	+	
81	Stroke	7	7	7	9	8	6	8	6	7	8	8	8	7	9	8	8	0.7	A	+	
82	Seizures, other neurologic disorders, or psychiatric disorders	3	3	3	2	2	2	4	3	1	5	3	2	2	2	2	2	0.7	R	+	
83	Suspected pulmonary hypertension	9	8	8	9	9	9	9	8	8	9	9	9	9	7	9	9	0.4	A	+	
84	Gastrointestinal disorders, not otherwise specified	1	1	2	2	2	5	5	1	1	4	2	2	1	1	2	2	0.9	R	+	
85	Hepatic disorders	4	5	4	4	4	5	3	1	3	4	3	4	1	1	4	4	0.7	M		
86	Failure to thrive	7	5	5	4	4	6	6	5	2	4	5	4	3	1	6	5	1.0	M	+	
87	Storage diseases, mitochondrial and metabolic disorders	8	8	7	9	8	8	8	7	9	7	6	7	8	8	8	8	0.5	A	+	
88	Abnormalities of visceral or cardiac situs	9	9	8	9	8	9	9	9	7	8	9	9	8	9	9	9	0.3	A	+	

**Table 8: Family History of Cardiovascular Disease in Patients without Signs or Symptoms and without Confirmed Cardiac Diagnosis**

89	Unexplained sudden death before the age of 50 years	5	8	5	8	7	7	6	5	4	6	5	5	8	6	7	6	0.9	M		
90	Premature coronary artery disease before the age of 50 years	2	1	3	2	2	2	4	2	1	3	3	1	1	3	4	2	0.7	R	+	
91	Channelopathy	6	1	3	2	1	3	4	3	1	3	3	5	1	3	4	3	0.8	R	+	
92	Hypertrophic cardiomyopathy	9	9	8	9	9	8	9	9	9	8	9	9	9	9	9	9	0.2	A	+	
93	Non-ischemic dilated cardiomyopathy	9	9	8	9	8	7	9	7	9	8	9	8	8	9	9	9	0.5	A	+	
94	Other cardiomyopathies	8	9	7	9	8	7	9	7	8	8	7	8	7	9	9	8	0.6	A	+	
95	Unspecified cardiovascular disease	3	3	4	3	4	3	5	4	1	5	3	1	1	6	2	3	0.9	R		
96	Disease at high risk for cardiovascular involvement, including but not limited to diabetes, systemic hypertension, obesity, stroke, and peripheral vascular disease	4	3	3	2	2	2	5	1	2	3	3	1	1	2	2	2	0.7	R	+	
97	Genetic disorder at high risk for cardiovascular involvement	8	9	7	7	7	5	8	8	3	5	6	6	5	9	7	7	1.1	A		
98	Marfan or Loeys Dietz syndrome	9	4	8	7	7	7	8	9	4	7	5	6	7	9	6	7	1.1	A		
99	Connective tissue disorder other than Marfan or Loeys Dietz syndrome	6	4	6	5	6	5	8	5	3	7	6	6	6	7	5	6	0.9	M	+	

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100	Congenital left-sided heart lesion, including but not limited to mitral stenosis, left ventricular outflow tract obstruction, bicuspid aortic valve, aortic coarctation, and/or hypoplastic left heart syndrome	9	9	6	8	6	6	8	8	5	6	6	6	6	6	7	6	0.9	M		
101	Congenital heart disease other than the congenital left-sided heart lesions	5	3	5	5	5	5	8	5	3	4	5	4	5	6	6	5	0.7	M	+	
102	Idiopathic pulmonary arterial hypertension	8	2	5	8	7	3	8	2	2	4	6	5	7	4	7	5	1.8	M		
103	Heritable pulmonary arterial hypertension	8	6	7	8	7	7	8	8	2	6	8	8	8	8	9	8	0.9	A	+	
104	Pulmonary arterial hypertension other than idiopathic and heritable	6	2	5	3	3	3	3	2	2	3	3	5	3	4	6	3	0.8	R		
105	Consanguinity	4	2	5	3	2	3	3	2	2	3	4	3	4	5	2	3	0.7	R		

**Table 9: Outpatient Neonates without Post-Natal Cardiology Evaluation**

106	Suspected cardiovascular abnormality on fetal echocardiogram	9	9	9	9	9	9	9	9	8	9	9	9	8	9	9	9	0.1	A	+	
107	Isolated echogenic focus on fetal ultrasound	3	2	2	2	2	3	3	1	2	3	3	3	3	1	1	2	0.5	R	+	
108	Maternal infection during pregnancy or delivery with potential fetal/ neonatal cardiac sequelae	6	5	7	7	8	4	4	8	5	7	3	7	6	9	7	7	1.3	A		
109	Maternal diabetes with no prior fetal echocardiogram	7	2	6	6	5	6	5	6	1	5	1	2	7	8	7	6	1.4	M		
110	Maternal diabetes with a normal fetal echocardiogram	5	2	3	3	7	6	5	2	1	4	4	2	6	5	1	4	1.3	M		
111	Maternal phenylketonuria	7	9	5	7	7	7	5	8	9	5	7	7	5	9	7	7	0.9	A	+	
112	Maternal autoimmune disorder	5	2	4	5	3	3	3	6	2	5	5	5	6	5	3	5	1.1	M		
113	Maternal teratogen exposure	7	7	7	5	5	6	7	6	2	6	6	5	7	5	6	6	0.7	M		

# Appropriate	53
# May Be Appropriate	28
# Rarely Appropriate	32
<b>Total</b>	<b>113</b>

Agreement	81
Disagreement	0
Neither + or -	