2023 AIMVT Cardiology Advanced Skills Reference List

This is **NOT** the list you will submit with your application. Use this only as a reference.

The submission form can be found here: <u>Cardiology skills list</u>

4.01	
1. Characterize cardiac murmurs in five patients of two	2 Identify the patients with a sellen several cells access
different species. Include grade (1-6), location (right or left	2. Identify two patients with a gallop sound, split sound, or
hemithorax; apex; or base), and timing (systolic, diastolic, or	mid-systolic click.
continuous).	
3. Identify normal respiratory rhythm variations on	4. Identify abnormal rhythms on auscultation.
auscultation. 5. Identify ectopic beats on auscultation / palpation of pulse	
deficits.	6. Identify paroxysmal tachycardia on auscultation.
7. Utilize a central venous pressure manometer.	8. Utilize a Doppler non-invasive blood pressure device.
9. Utilize a nasal oxygen delivery system.	10. Utilize a pulse oximeter.
11. Calculate and administer a prescribed continuous rate	10. Otilize a puise oximeter.
infusion.	12. Collect arterial blood samples.
13. Place an indwelling central venous line or catheter	
introducer using a modified Seldinger technique.	14. Produce diagnostic quality thoracic radiographs in the cat.
	16. Calculate a Vertebral Heart Score / Sum on a lateral
15. Produce diagnostic quality thoracic radiographs in the dog.	thoracic radiograph.
17. Identify pericardial effusion on a ventrodorsal (VD)	<u> </u>
radiograph.	18. Identify pleural effusion on a VD radiograph.
19. Identify pulmonary edema on a VD radiograph.	20. Identify pulmonary artery enlargement on a VD radiograph.
21. Identify right ventricular enlargement on a VD radiograph.	22. Identify a pacemaker lead wire on a VD radiograph.
, ,	24. Identify pericardial effusion on a lateral thoracic
23. Identify pleural effusion on a lateral thoracic radiograph.	radiograph.
	26. Identify left atrial enlargement on a lateral thoracic
25. Identify pulmonary edema on a lateral thoracic radiograph.	radiograph.
27. Identify left ventricular enlargement on a lateral thoracic	
radiograph.	28. Identify bronchi on a lateral thoracic radiograph.
29. Identify pulmonary arteries on a lateral thoracic radiograph.	30. Identify pulmonary veins on a lateral thoracic radiograph.
31. Identify the caudal vena cava on a lateral thoracic	32. Identify the aorta on a lateral thoracic radiograph.
radiograph.	32. Identify the act ta off a lateral thoracic radiograph.
33. Acquire and print a 10 lead ECG including 6 lead frontal + 4	34. Acquire and print a 50mm/sec strip for measurement.
chest.	·
35. Acquire and print a rhythm strip.	36. Record a base-apex lead ECG in a large animal species.
37. Demonstrate the application of Holter or event monitors.	38. Calculate the Mean Electrical Axis (MEA) of one normal and
	three abnormal ECG's. At least one ECG should be of a cat.
39. Calculate the P-R interval of one normal and two abnormal	40. Calculate the Q-T interval of one normal and two abnormal
ECG's.	ECG's.
41. Calculate the P wave amplitude and duration of one normal	42. Calculate the QRS complex duration of one normal and two
and two abnormal ECG's.	abnormal ECG's.
43. Calculate the R wave amplitude of one normal and two	44. Calculate the T wave amplitude of one normal and two
abnormal ECG's.	abnormal ECG's.
45. Identify ECG artifacts due to motion (i.e., respiration,	46. Identify ECG artifacts due to poor electrode contact.
shiver, or limb movement). 47. Identify ECG artifacts due to alternating current	
interference.	48. Identify supraventricular tachycardia on an ECG.
49. Identify atrial fibrillation on an ECG.	50. Identify sinus arrest on an ECG.
51. Identify sinus arrhythmia on an ECG.	52. Identify atrial premature complexes on an ECG.
53. Identify sinus arrhytimia on an ECG. 53. Identify 1st degree atrioventricular (AV) block on an ECG.	54. Identify 2nd degree AV block on an ECG.
55. Identify 3rd degree or complete AV block on an ECG.	56. Identify a right bundle branch block on an ECG.
57. Identify a left bundle branch block on an ECG.	58. Identify a left anterior fascicular block on an ECG.
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59. Identify ventricular premature complexes on an ECG.	60. Identify ventricular escape complexes on an ECG.

61. Identify ventricular tachycardia on an ECG.	62. Identify ventricular fibrillation on an ECG.
63. Identify right ventricular enlargement on an ECG.	64. Identify left ventricular enlargement on an ECG.
65. Identify pulmonary artery dilation in the short axis basilar	CC Identify perioardial offusion on achaeardiagram
view on echocardiogram.	66. Identify pericardial effusion on echocardiogram.
67 Identify played offusion on achogardiagram	68. Identify valvular regurgitation/insufficiency on color flow
67. Identify pleural effusion on echocardiogram.	(CF) Doppler on echocardiogram.
69. Identify aliasing on pulsed wave Doppler on	70. Identify aliasing on CF Doppler on echocardiogram.
echocardiogram.	70. Identify aliasing of CF Doppler of echocardiogram.
71 Identify spentaneous eshe centrast an eshecardingram	72. Identify <i>Dirofilaria immitis</i> (heartworms) on
71. Identify spontaneous echo contrast on echocardiogram.	echocardiogram.
73. Identify mitral valve thickening and prolapse on	74. Identify cardiac masses on echocardiogram (e.g.
echocardiogram.	hemangiosarcoma, chemodectoma).
75. Identify systolic dysfunction or ventricular hypokinesis on	76. Identify ventricular hypertrophy on echocardiogram.
echocardiogram.	76. Identity ventricular hypertrophly on echocardiogram.
77. Identify left atrial enlargement on echocardiogram.	78. Identify subvalvular aortic stenosis on echocardiogram.
79. Identify pulmonic valve stenosis on echocardiogram.	80. Identify patent ductus arteriosus on echocardiogram.
81. Identify ventricular septal defects on echocardiogram.	82. Identify right sided pressure overload on echocardiogram.
83. Record the right parasternal four chamber long axis view on	84. Record the right parasternal long axis five chamber or left
echocardiography in a dog and identify the chambers and/or	ventricular outflow view on echocardiography in a dog and
major vessels visible in the view.	identify the chambers and/or major vessels visible in the view.
85. Record the right parasternal short axis view at the chordae	86. Record the right parasternal short axis mitral valve view on
tendineae level on echocardiography in a dog and identify the	echocardiography in a dog and identify the chambers and/or
chambers and/or major vessels visible in the view.	major vessels visible in the view.
87. Record the right parasternal short axis view of the	88. Record the right parasternal short axis view of
aorta/left atrium on echocardiography in a dog and identify the	the pulmonary artery on echocardiography in a dog and
chambers and/or major vessels visible in the view.	identify the chambers and/or major vessels visible in the view.
89. Record M-Mode of the left ventricle from either a long or	90. Record M-Mode of the mitral valve from either a long or
short axis view on echocardiography in a dog and identify the	short axis view on echocardiography in a dog and identify the
chambers and/or major vessels visible in the view.	chambers and/or major vessels visible in the view.
91. Record M-Mode of the aorta and left atrium from either a	-
long or short axis view on echocardiography in a dog and	92. Measure M-Mode of left ventricle fractional shortening
identify the chambers and/or major vessels visible in the view.	(shortening fraction).
	94. Measure M-Mode of the mitral valve E-point to septal
93. Measure M-Mode of the aorta and left atrium ratio.	separation (EPSS).
OF Management Donales and State of Stat	96. Set up and calibrate physiologic transducers to measure
95. Measure spectral Doppler velocity profiles.	direct intracardiac and intravascular pressures.
97. Identify a pigtail catheter and describe its use in	98. Identify a multipurpose catheter (e.g., Slip, Cobra, etc.) and
interventional cardiac catheterization.	describe its use in interventional cardiac catheterization.
99. Identify a Judkins style (both right and left) catheter and	100. Identify balloon valvuloplasty equipment and describe this
describe its use in interventional cardiac catheterization.	interventional technique.
	102. Identify a multipurpose angiography catheter (MPA) (e.g.,
101. Identify vascular introducers and describe their use in	Berman, pig tail, etc.) and describe its use in interventional
interventional cardiac catheterization.	cardiac catheterization.
103. Identify a Berman catheter and describe its use in	104. Identify heartworm retrieval systems and describe their
interventional cardiac catheterization.	use in interventional cardiac catheterization.
105. Identify normal cardiac structure on angiography.	106. Identify a patent ductus arteriosus on angiography.
107. Identify pulmonic stenosis on angiography.	108. Interrogate a pacemaker to determine battery life.
107. Identity paintonic steriosis on angiography.	100. Interrogate a paternaker to determine pattery inc.

The following pull lists are **MANDATORY**:

- 109. Abdominocentesis pull list
- 110. Thoracocentesis pull list
- 111. Pericardiocentesis pull list
- 112. Balloon valvuloplasty pull list
- 113. Micro-bubble air contrast echocardiogram pull list
- 114. Transvenous temporary pacing pull list
- 115. Transvenous permanent pacing pull list
- 116. PDA embolization pull list (with coils and/or Amplatz devices)