ECVS Practical Mock Exam 2022 (solutions)

Type	Free text question, (Max: 2.00 Points)
Question-ID:	10974

Question

Question 7

During investigation of an 11-month-old, female entire Clumber Spaniel with liver dysfunction, the following radiographic study is obtained.

Q1: Review images 1 and 2. What study has been performed?
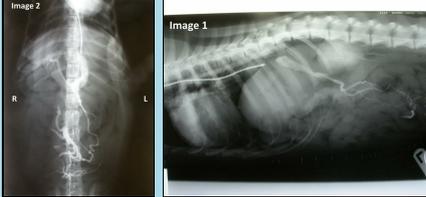
Correction notes
We required you to recognise that this was a portovenogram. We did not accept answers that that were not consistent with an operative portovenogram such as 'angiography'. The question asks you to BE SPECIFIC. This should remind you to check your answer and ensure it is clear from it that you understand what has been performed.

A small number of candidates answered portosystemic shunt. This is a diagnosis not a radiographic study. ANSWERING THE WRONG QUESTION is a common mistake. Before moving on, CHECK that you understand what is being asked for and that you have answered the specific question being asked.

Maximum total amount of characters allowed for the answer
30

1. **Portogram OR venoportogram OR mesenteric venoportogram OR operative portography**
2. **(2 pts)**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	10975

Question
Q2: What is the SPECIFIC radiographic diagnosis?

Correction notes
We required an answer which indicated this was a portosystemic shunt involving the azygous (or hemi-azygous) vein as this is clearly identifiable from the radiograph. Any variation of answer that met these two criteria was accepted.

In reading this question, it is important to note that we request a SPECIFIC radiographic diagnosis. Stating portosystemic shunt is not specific enough. When we use words like SPECIFIC, PRECISE etc. in the question text, provide a detailed answer remembering to include orientation information when appropriate (e.g. lateral/ medial, left/ right, proximal/ distal, radius/ulna etc.).

Maximum total amount of characters allowed for the answer
50

1. **Porto-azygous shunt**
2. **Porto-hemiazygous also acceptable or other descriptions indicating a portosystemic shunt entering the azygous/ hemi-azygous**
3. **2 pts**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	10976

Question

Q3: Review Image 3 and identify the contrast filling structures labelled A, B and C.

--- End of Question ---

Image 3
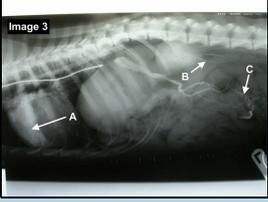
Correction notes

We expected the most candidates to be able to identify the right ventricle and the ureter in this contrast study (A and B). We did not expect the all candidates to be able to identify C so failing to do this would not in isolation prevent the candidate from passing this question.

Maximum total amount of characters allowed for the answer

50

1. **A= Right ventricle**
2. **B= Ureter**
3. **C= mesenteric vein OR arcuate blood vessel OR jejunal vessel (vessel or vein acceptable, artery is NOT acceptable)**
4. **2pts for all**
5. **No marks if state artery rather than vein or vessel.**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	11009

Question

Question 17

A 7-year-old, male entire Boxer presents to you with a history of chronic and progressive right hindlimb lameness. Radiographs (IMAGE 1) and a CT scan (IMAGE 2) are obtained.

IMAGE 1: Lateral radiograph of the lumbosacral junction
IMAGE 2: CT image showing a transverse section of the lumbosacral junction

Q1: Based on the history and the images provided, what is the MAIN diagnosis seen in IMAGE 2 (excluding ventral spondylosis deformance)?

IMAGE 1 — L7
IMAGE 2 — LEFT / RIGHT
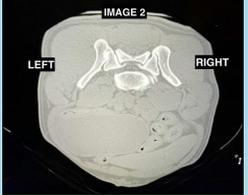
Correction notes

For the initial pass/borderline/fail assessment, we accepted answers that indicated narrowing at the nerve root exit. However, note that the question asks for a specific DIAGNOSIS and description of the radiographic findings is not sufficient to get marks if a candidate's script was numerically marked. Try to answer the specific question that has been asked. If a diagnosis has been asked for, make sure you have given one in your answer. Refer to the examination guide and video on the assessment structure if the two parts of the marking ('Pass, borderline, fail' and 'Numerical') are not clear to you.

We ask for the MAIN diagnosis. We will only accept the FIRST diagnosis you give for this answer. Similarly, if we ask for TWO differential diagnoses in a question, we will only mark the FIRST TWO differential diagnoses you list even if the correct answers appear later. READ the question carefully and appreciate that we will not give credit for additional answers when question ask for a specific number of options in the answer.

Maximum total amount of characters allowed for the answer

50

1. **(Right sided L7-S1) *foraminal stenosis***
2. **2 pts for all**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	11010

Question

Q2: The right patella reflex is increased. Based on your interpretation of the CT image (IMAGE 2), how can you explain this?

Correction notes

No additional marking comments.

Maximum total amount of characters allowed for the answer

200

1. **Pseudohyperreflexia OR**
2. **Decreased flexor muscle tone OR loss of/reduced sciatic nerve function**
3. **(2 pts)**
4. **0pts for hyperreflexia**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	11011

Question

Q3: Apart from gait abnormalities, list THREE MAIN abnormal findings you might expect in this patient on neurological examination?

--- End of Question ---

Correction notes

We will only mark the first three answers you give as the question asks for you for the MAIN THREE additional findings.

If you list five options, you have not demonstrated that you can make the judgement required to answer the question and you unfairly increase your chances of guessing a correct answer in comparison to a candidate who only lists three options. For these reasons, we follow this rule rigorously when marking. ALWAYS check that you have given the specified number of options when the question indicate that a set number is required.

Maximum total amount of characters allowed for the answer

250

1. ***Pain on palpation or manipulation* (LS, coxofemoral, lordosis/ pelvis extension, tail lifting) of the *lumbosacral area***
2. **Proprioceptive deficits OR decreased postural reactions (Hopping test)**
3. **Decreased OR reduced withdrawal reflexes**
4. **Muscle atrophy**
5. **(2 pts for 3; 1 pt for 2 items only if pain or proprioception is one of the answers)**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	11044

Question

Question 9

A 6-year-old, male neutered English Springer Spaniel presents with a 48-hour history of tachypnoea. A CT scan of the thorax is obtained.

- Video 1: Lung window (pre-contrast) in a transverse plane
- Video 2: Lung window (pre-contrast) in a sagittal plane
- Image 1: taken from the sagittal reconstruction of the lung window
- Image 2: photograph of the device containing the implant used in surgery
- Image 3: photograph of the device containing the implant used in surgery

Q1: Review the CT scans. LIST THREE CLINICALLY RELEVANT radiographic findings visible on these scans (excluding the structure labelled in Image 1).

Correction notes

Many of the questions will ask you to evaluate video clips of CT and to interpret them. In answering this queston, focus on what is being specifically asked. In this example, you are asked for CLINICAL RELEVANT FINDINGS. This requires you to interpret the CT and judge what is most relevant.

This question asks you to list THREE things. Remember, we will only accept the FIRST THREE answers you give. NOTE, we specifically excluded the lung foreign body in this question (circled structure). Be careful to check carefully that you have answered the question being asked and that you fully understand what is being asked.

Maximum total amount of characters allowed for the answer
100

1. **Pneumothorax OR**
2. **Pleural effusion OR**
3. **Multi-focal areas of lung consolidation OR**
4. **Bullae/blebs in the accessory lung lobe OR**
5. **Mild, multifocal bronchial thickening OR**
6. **Bilateral superficial cervical (moderate), sternal and cranial mediastinal (mild) lymphadenopathy**
7. **2 for 1pt and 3 answers for 2pts**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	11045

Question

Q2: Review Image 1, what is the MOST LIKELY explanation for the structure indicated by the red circle?

Correction notes

We did not expect passing candidates to always be able to answer this question so failing to get this answer would not influence the initial 'Pass, Borderline, Fail' assessment. It would influence the mark if this candidate was in the borderline group following initial assessment and needed to be numerically marked. Review the Examination Guide and other information provided about the assessment structure if this distinction is not clear to you.

Maximum total amount of characters allowed for the answer
30

1. **(inhaled) *foreign body***
2. **2pts for all**

Type	Free text question, (Max: 2.00 Points)
Question-ID:	11046

Question
Q3: Review Images 2 and 3; what is the leg length of the implants contained WITHIN this device BEFORE it is used?

--- End of Question ---
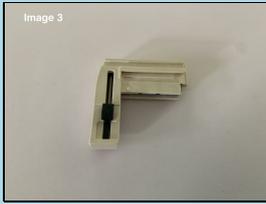
Correction notes
This question requires you to RECOGNISE that this is a stapling cartridge and INTERPRET the white colour coding to get the correct answer (the length of the staples before deployment).
Some candidates answered 30mm indicating the standard length of the white vascular stapling cartridge indicating that they may have misread the question.
Look at the question and see that we emphasise that we want you to answer the leg length of the IMPLANT within the device.
It is sensible to check the question after you have constructed your answer and make sure that you have answered the specific question being asked and that you understand it.

Maximum total amount of characters allowed for the answer
20

1. **2.5mm**
2. **(2 pts for all)**