Case Scenario Assignment (Weeks 7-10)

(!) This is a preview of the published version of the quiz

Started: Jan 3 at 12:51pm

Quiz Instructions

This assignment is to try and help you learn to *apply* the material to real life scenarios. Use your knowledge of the diseases to evaluate the scenario and draw conclusions. This assignment is intended to help you learn and improve your understanding with feedback from me (you can revise, based on feedback).

Question 1 2 pts

Scenario 1:

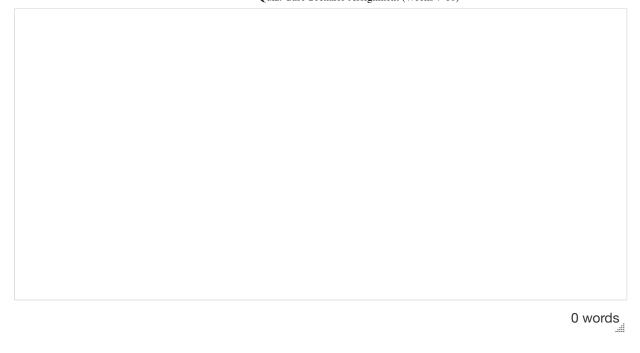
Read the following scenario and answer the questions.

You are a cow-calf producer. You recently gathered ~65 cow/calf pairs this fall and are preparing to sell and ship the calves to a feedlot. The calves were vaccinated once at branding for viral respiratory etiologic agents (typical 5-way modified live vaccine), clostridial etiologic agents (typical killed 8 way vaccine) and given Multi-min (injectable mineral supplement) this past April. At that time they were between 1-4 months of age. They were also branded and castrated. There are several "mutts" in your herd, that will need to be dehorned. The plan is to wean and ship the calves the same day. Cows and calves will be brought into the corral as pairs then sorted and immediately loaded on the truck to be shipped. The destination feedlot has also requested that their vaccines be boostered prior to shipment.

What disease are the calves in this scenario at high risk for? Identify WHY the calves are at higher risk (specific risk factors in this scenario).

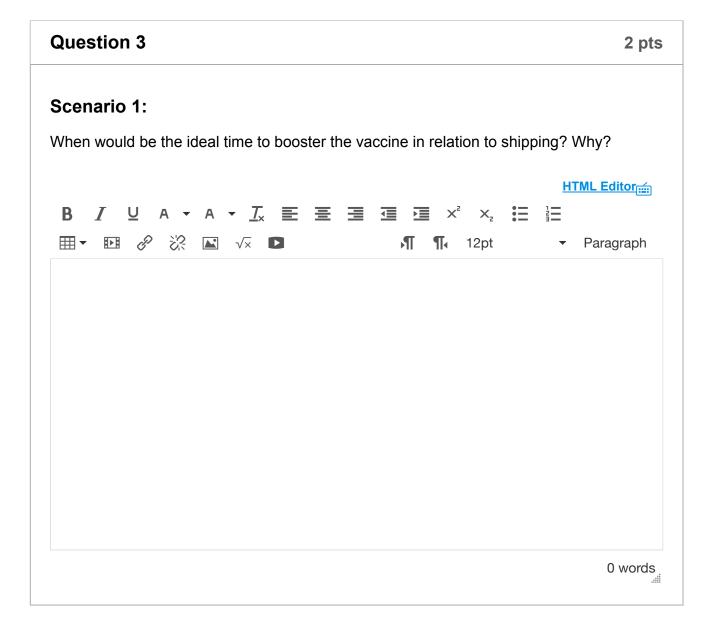
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Question 2 2 pts Scenario 1: Identify at least two ways that you could decrease their risk for this disease and improve this plan in the scenario. HTML Editor ¶ 12pt ▼ Paragraph

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Question 4 2 pts

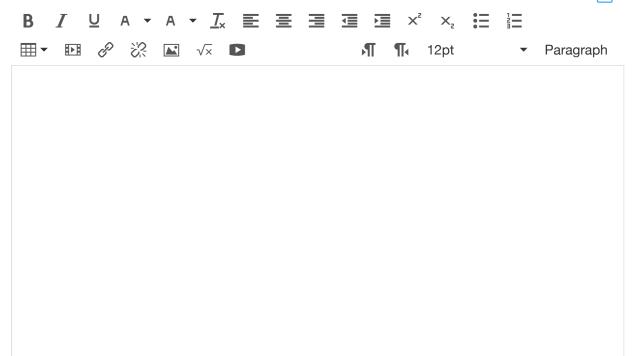
Scenario 2:

Read the following scenario and answer the questions.

You raise several Suffolk show lambs and your friend from college has recently decided to try raising lambs as well. They are not very familiar with sheep. They recently identified a sick lamb and called you for help. They found the lamb acting dull and painful. It's abdomen was distended. It is about 3 weeks old. Up until now it has been the happiest and fattest lamb.

What disease are you worried about? Why? What questions do you have about the history (for example: what about prevention strategies, risk factors)?

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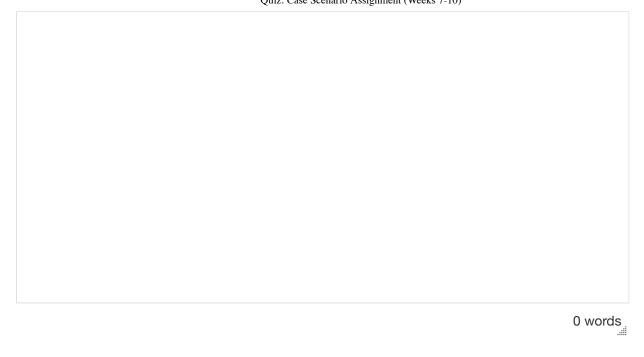
Question 5 2 pts

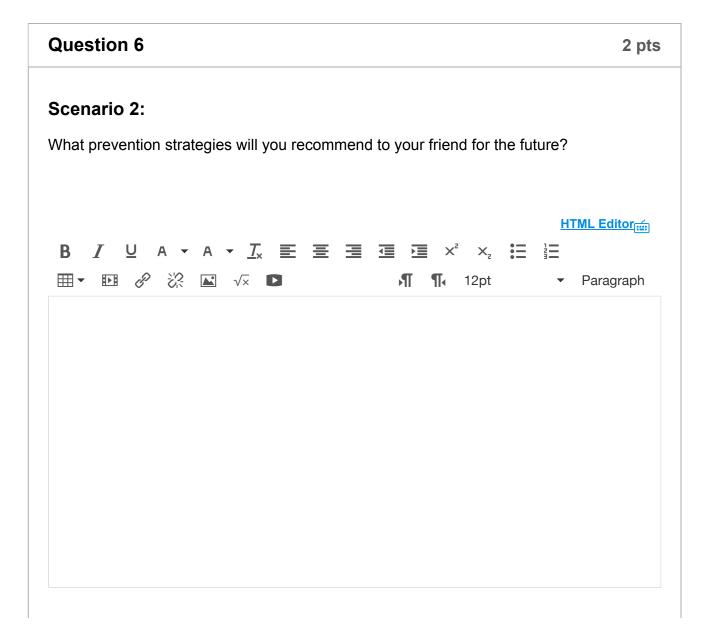
Scenario 2:

Describe the pathogenesis of the disease you indicated.

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Question 7 2 pts

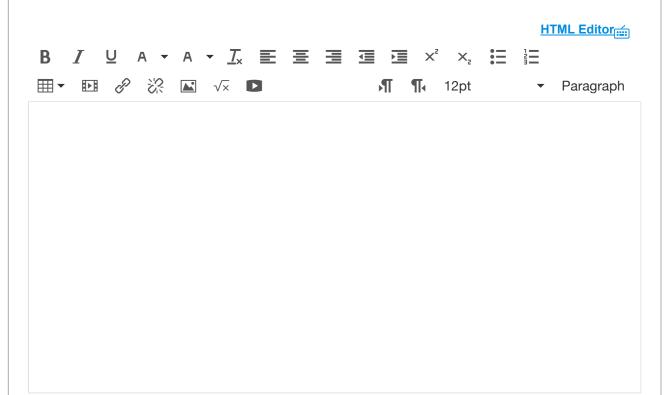
Scenario 3:

This data is actual data collected at a dairy. Please review it and using your knowledge and guidelines for colostrum and adequate passive transfer benchmarks answer the following questions.

Calf Number	Dam	Colostrum Cow #	Colostrometer (mg/mL)	Refractometer (%brix)	TP Pre-C1 (g/dL)	TP Post-C1 g/dL	Amount C1 consumed (pts)	Time post C1 Collection	
J-562	26	26	N/A	21.5	4.8	6.1	4	10 hrs	
J-563	523	523	60	27	4.8	6.1	3-T	12 hrs	
J-564	511	523	60	27	4.7	5.7	2.5-T	12 hrs	
J-565	503	515	N/A	28	5.1	5.9	4-T	12 hrs	
J-566	515	515	40	18	4.5	5.2	3-T	11 hrs	
J-657	518	515	30	17	5.4	5.4	3-T	11 hrs	
J-568	533	523	60	26/27	4.9	5.4	2-T	10 hrs	
J-570	512	518	N/A	30	4.9	7	3.5	10 hrs	
J-571	528	512	N/A	26	4.6	6	4-T	12 hrs	
2891	2576	2576	N/A	27	5	6	4	10 hrs	
J-572	513	528	90 (cold)	26	5	7	4-T	12 hrs	
J-Bull (6/11)	507	528	90 (cold)	26	4.7	6	4-T	12 hrs	
2892	2669	2669	80	25	5	6.4	7	11 hrs	
J-573	516	507	70	27	4.8	5.8	4-T	10 hrs	
J-574	48	507	70	27	4.8	5.8	4-T	20 hrs	
							T=tubed		

Colostrometer measurements were taken when colostrum had reached room temperature, unless otherwise noted. N/A indicates that whoever collected the colostrum did not take a measurement. TP=Total protein (g/dL), Pre-C1 indicating before colostrum was ingested; Post C1-indicating after colostrum was ingested

Identify which calves had successful passive transfer and which calves had failure of passive transfer.



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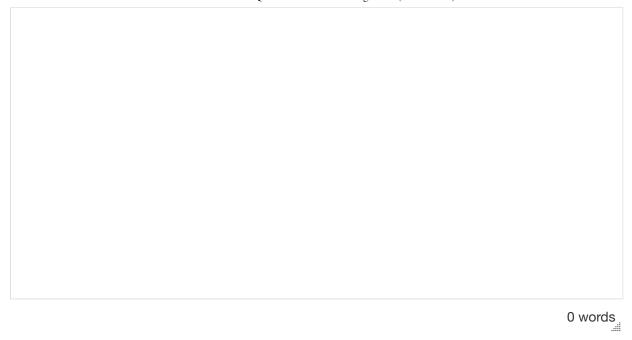
Question 9 2 pts

Scenario 3:

For the calves that had failure of passive transfer, use the other data to propose a logical reason for the failure. (Hint: Think about the goals for colostrum.)

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Question 10 2 pts

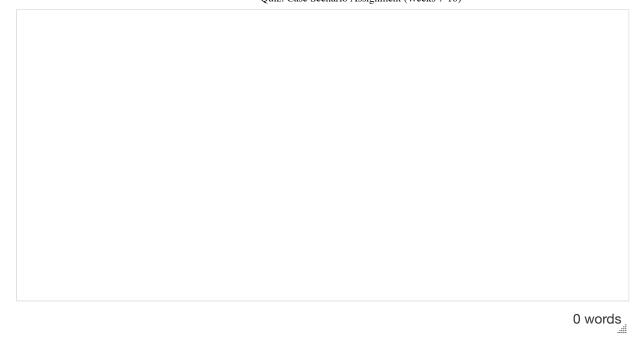
Scenario 4:

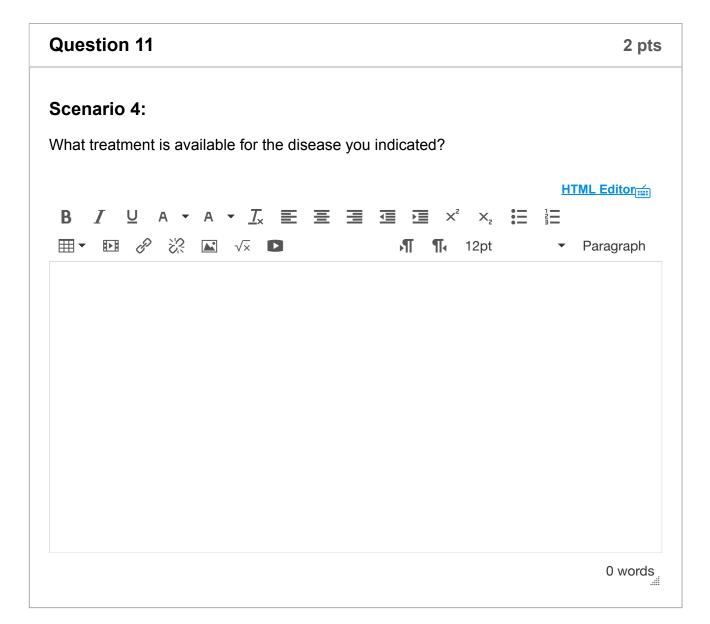
You are a vet and you recently preg checked a herd of cattle for a cow-calf producer. This producer turns his cows out on a grazing permit during the summer breeding season with several other herds. At preg check, 20% of the herd was open (should be <5%) and 25% of the herd were only 1-3 months along in gestation. The rest of the herd was 5-6 months pregnant, according to the producer's plan and what you would have expected for when the bulls were turned in. The cows and bulls show no outward signs of disease.

What disease are you concerned this herd might have been exposed to? Explain your reasoning.

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Question 12 2 pts Scenario 4: What requirements are in place (especially in western states) to prevent transmission of this disease? HTML Editor **■ ■ ▼ ※ ▲ √× ▶ √** ¶ 12pt Paragraph

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