

Veterinary Kidney/Liver Biopath

Author: Brooke Delaney

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4. Chapter: Kidney/Liver Biopath

1. Kidney/Liver Biopath Questions

4.1.1. What is unique on biochemical profile of a horse with renal disease...

Author: Brooke Delaney

What is unique on biochemical profile of a horse with renal disease compared to other species?

Please choose only one answer:

- BUN and Creatinine are both increased for horses and not in other species
- only BUN is increased for a horse and both BUN and Creatinine are increased in other species with renal disease
- Ca is low and Phos is high in horses ; Ca is high and Phos is low in other species with renal disease.
- Ca is high and Phos is low in horses; Ca is low and Phos is high in other species with renal disease,
- Only Creatinine is measured in horses.

Check the answer of this question online at QuizOver.com:

Question: [What is unique on biochemical profile of Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-unique-on-biochemical-profile-of-brooke-delaney-kidne?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-unique-on-biochemical-profile-of-brooke-delaney-kidne?pdf=1505>

4.1.2. Dogs normally have +1 bilirubin in urine. true/false

Author: Brooke Delaney

Dogs normally have +1 bilirubin in urine. true/false

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Dogs normally have 1 bilirubin in urine. Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-dogs-normally-have-1-bilirubin-in-urine-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-dogs-normally-have-1-bilirubin-in-urine-brooke-delaney-kidney?pdf=1505>

4.1.3. 10 yr old paint mare with history of off feed 2 dayshere are ...

Author: Brooke Delaney

10 yr old paint mare with history of off feed 2 dayshere are results of biochem profile:

BUN 38 (high) and Creatinine 6.5 (high) Phosphorus 2.7 (normal) Ca 12.2 (normal)

USG : 1.048

Which of the following describes the above results ?

Please choose only one answer:

- Prerenal azotemia
- Renal azotemia
- post renal azotemia

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [10 yr old paint mare with history of off Brooke Delaney Kidney Quest](http://www.quizover.com/question/question-10-yr-old-paint-mare-with-history-of-off-brooke-delaney-kidney-quest)

Flashcards:

<http://www.quizover.com/flashcards/question-10-yr-old-paint-mare-with-history-of-off-brooke-delaney-kidne?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-10-yr-old-paint-mare-with-history-of-off-brooke-delaney-kidne?pdf=1505>

4.1.4. 17 yr old DSH cat gradual weight loss. You can palpate an abdominal...

Author: Brooke Delaney

17 yr old DSH cat gradual weight loss. You can palpate an abdominal mass. Here are the following results:

Glucose : 282 (normal 124)

BUN 162 (normal=32)

Creat 2.2 (normal =2)

Phos- normal

Urinalysis:

USG: 1.045 (neg for glucose)

What is the most likely differential?

Please choose only one answer:

- Kidney disease
- Glomerular disease caused by immune mediated globulins
- Tubular disease
- UTI
- GI hemorrhage

Check the answer of this question online at QuizOver.com:

Question: [17 yr old DSH cat gradual weight loss. Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-17-yr-old-dsh-cat-gradual-weight-loss-brooke-delaney-kidney-l?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-17-yr-old-dsh-cat-gradual-weight-loss-brooke-delaney-kidney-l?pdf=1505>

4.1.5. 9 yr old DSH cat presents for PU/PD, lethargy, occasional vomiting

...

Author: Brooke Delaney

9 yr old DSH cat presents for PU/PD, lethargy, occasional vomiting

BUN : 124 (normal 32) USG: 1.011 CBC : PCV 19% (low) Retic <60,000

Creat : 8.4 (normal 2)

Phos: 9.9 (normal 7.8)

Ca 10.2 (normal)

Does this cat have chronic renal failure?

Please choose only one answer:

- Yes
- No

Check the answer of this question online at QuizOver.com:

Question: [9 yr old DSH cat presents for PU/PD lethargy Brooke Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-9-yr-old-dsh-cat-presents-for-pu-pd-lethargy-brooke-kidney-li?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-9-yr-old-dsh-cat-presents-for-pu-pd-lethargy-brooke-kidney-li?pdf=1505>

4.1.6. Cushings disease could cause animal to not concentrate urine. true ...

Author: Brooke Delaney

Cushings disease could cause animal to not concentrate urine. true /false

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Cushings disease could cause animal to Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-cushings-disease-could-cause-animal-to-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-cushings-disease-could-cause-animal-to-brooke-delaney-kidney?pdf=1505>

4.1.7. Why do animals get high Phos with renal disease?

Author: Brooke Delaney

Why do animals get high Phos with renal disease?

Please choose only one answer:

- increased GFR
- decreased GFR
- increased EPO
- retained Ca also causes retained Phos

Check the answer of this question online at QuizOver.com:

Question: [Why do animals get high Phos with renal Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-why-do-animals-get-high-phos-with-renal-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-why-do-animals-get-high-phos-with-renal-brooke-delaney-kidney?pdf=1505>

4.1.8. A urine protein creatinine ratio of >5.0 indicates.....

Author: Brooke Delaney

A urine protein creatinine ratio of >5.0 indicates.....

Please choose only one answer:

- Tubular disease
- glomerular disease
- renal disease
- chronic renal failure
- post renal obstruction

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [A urine protein creatinine ratio of 5.0 Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-urine-protein-creatinine-ratio-of-5-0-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-urine-protein-creatinine-ratio-of-5-0-brooke-delaney-kidney?pdf=1505>

4.1.9. 7 yr old dog history of vomiting and weight loss

BUN 240 (high)

C...

Author: Brooke Delaney

7 yr old dog history of vomiting and weight loss

BUN 240 (high)

Creat 6.5 (high)

USG: 1.010

Urine protein :neg

urine sediment : normal

What is the most likely explanation for the azotemia?

Please choose only one answer:

- renal tubular disease
- renal glomerular disease
- Pre renal due to GI bleeding
- Pre renal due to hypoperfusion

Check the answer of this question online at QuizOver.com:

Question: [7 yr old dog history of vomiting and weight Brooke Delaney Kidney](#)

Flashcards:

<http://www.quizover.com/flashcards/question-7-yr-old-dog-history-of-vomiting-and-weight-brooke-delaney-ki?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-7-yr-old-dog-history-of-vomiting-and-weight-brooke-delaney-ki?pdf=1505>

4.1.10. What does free catch urine evaluate for large animals?

Author: Brooke Delaney

What does free catch urine evaluate for large animals?

Please choose only one answer:

- Upper urinary tract
- Lower Urinary Tract
- Uro genital tract

Check the answer of this question online at QuizOver.com:

Question: [What does free catch urine evaluate for Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-does-free-catch-urine-evaluate-for-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-does-free-catch-urine-evaluate-for-brooke-delaney-kidney?pdf=1505>

4.1.11. What is diagnostic for ethylene glycol toxicity?

Author: Brooke Delaney

What is diagnostic for ethylene glycol toxicity?

Please choose only one answer:

- Calcium oxalate dihydrate crystals
- Struvites
- Calcium oxalate monohydrate crystals
- Bilirubin in urine
- Nitrate crystals

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [What is diagnostic for ethylene glycol Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-diagnostic-for-ethylene-glycol-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-diagnostic-for-ethylene-glycol-brooke-delaney-kidney?pdf=1505>

4.1.12. When collecting cystocentesis in a male dog , it is important to re...

Author: Brooke Delaney

When collecting cystocentesis in a male dog , it is important to realize that you bypass the reproductive system.

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [When collecting cystocentesis in a male Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-when-collecting-cystocentesis-in-a-male-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-when-collecting-cystocentesis-in-a-male-brooke-delaney-kidney?pdf=1505>

4.1.13. Which of the following is a leakage enzyme of the liver? (select al...

Author: Brooke Delaney

Which of the following is a leakage enzyme of the liver? (select all that apply)

Please choose all the answers that apply:

- ALT (small animals)
- AST
- GGT
- ALP
- SDH (large animals)

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of the following is a leakage enzyme Brooke Delaney Kidney](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-a-leakage-enzyme-brooke-delaney-kid?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-a-leakage-enzyme-brooke-delaney-kid?pdf=1505>

4.1.14. Which of the following is an induced enzyme of the liver (select AL...

Author: Brooke Delaney

Which of the following is an induced enzyme of the liver (select ALL that apply)

Please choose all the answers that apply:

- GGT
- AST
- ALP
- SDH (large animals)
- ALT (small animals)

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of the following is an induced enzyme Brooke Delaney Kidney](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-an-induced-enzyme-brooke-delaney-ki?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-an-induced-enzyme-brooke-delaney-ki?pdf=1505>

4.1.15. Which liver enzymes of dogs is increased by steroids (glucocorticoi...

Author: Brooke Delaney

Which liver enzymes of dogs is increased by steroids (glucocorticoids) ? select all

Please choose all the answers that apply:

- AST
- ALT
- GGT
- ALP
- GGT

Check the answer of this question online at QuizOver.com:

Question: [Which liver enzymes of dogs is increased Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-liver-enzymes-of-dogs-is-increased-brooke-delaney-kidne?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-liver-enzymes-of-dogs-is-increased-brooke-delaney-kidne?pdf=1505>

4.1.16. Which of the following is FALSE regarding AST?

Author: Brooke Delaney

Which of the following is FALSE regarding AST?

Please choose only one answer:

- Present in hepatocytes and muscle cells
- rises in AST will parallel ALT with liver disease
- steroids increase ALT by 2-5 fold
- AST will also rise after CK rises for muscle injury
- All of the above are true

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is FALSE regarding Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-false-regarding-brooke-delaney-kidn?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-false-regarding-brooke-delaney-kidn?pdf=1505>

4.1.17. Steroids are potent inducers of ALP levels in cats. True/False

Author: Brooke Delaney

Steroids are potent inducers of ALP levels in cats. True/False

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Steroids are potent inducers of ALP levels Brooke Delaney Kidney](#)

Flashcards:

<http://www.quizover.com/flashcards/question-steroids-are-potent-inducers-of-alp-levels-brooke-delaney-kid?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-steroids-are-potent-inducers-of-alp-levels-brooke-delaney-kid?pdf=1505>

4.1.18. Bllirubin can increase in horses that are anorexic. True/False

Author: Brooke Delaney

Bllirubin can increase in horses that are anorexic. True/False

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Bllirubin can increase in horses that are Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-bilirubin-can-increase-in-horses-that-are-brooke-delaney-kidn?pdf=1505>

Interactive Question:

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4.1.19. WHat 2 liver enzymes indicate specifically hepatocellular damage?

Author: Brooke Delaney

WHat 2 liver enzymes indicate specifically hepatocellular damage?

Please choose all the answers that apply:

- AST
- ALT
- GGT
- ALP

Check the answer of this question online at QuizOver.com:

Question: [WHat 2 liver enzymes indicate specifically Brooke Delaney Kidney](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-2-liver-enzymes-indicate-specifically-brooke-delaney-kid?pdf=1505>

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<http://www.quizover.com/question/question-what-2-liver-enzymes-indicate-specifically-brooke-delaney-kid?pdf=1505>

4.1.20. should you run a BA test if T. Bilirubin is increased on chemistry ...

Author: Brooke Delaney

should you run a BA test if T. Bilirubin is increased on chemistry panel?

Please choose only one answer:

- Yes
- No

Check the answer of this question online at QuizOver.com:

Question: [should you run a BA test if T. Bilirubin Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-should-you-run-a-ba-test-if-t-bilirubin-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-should-you-run-a-ba-test-if-t-bilirubin-brooke-delaney-kidney?pdf=1505>

4.1.21. 2 yr old mixed breed dog presents for seizures. One of your differe...

Author: Brooke Delaney

2 yr old mixed breed dog presents for seizures. One of your differentials is a portosystemic shunt . Here are the results of the CBC and Chemistry panel.

PCV 40 (normal) BUN: 6 (normal -7) Cholesterol 96 (normal 130)

MCV 57 (normal 60) Creat (normal) T Bilirubin (normal)

Seg Neutrophils (normal) Phos (normal) CK (normal)

Lymphocytes (normal) Ca 8.6 (normal 9.5) ALT, GGT, AST, ALP all increased .

Monocytes (normal) TP 4.2 (normal5.4) BA's pre 55 post 312

Albumin 2 (normal 2.7)

Globulin (normal)

is there enough evidence to suspect a liver shunt?

Please choose only one answer:

- Yes
- No

Check the answer of this question online at QuizOver.com:

Question: [2 yr old mixed breed dog presents for Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-2-yr-old-mixed-breed-dog-presents-for-brooke-delaney-kidney-l?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-2-yr-old-mixed-breed-dog-presents-for-brooke-delaney-kidney-l?pdf=1505>

4.1.22. The following is from a 5 yr old horse with history of anorexia and...

Author: Brooke Delaney

The following is from a 5 yr old horse with history of anorexia and emaciation.

PCV: 43 (normal)

CK 830 (470 normal)

AST 350 (300 normal)

SDH 4 (normal)

ALP 710 (290 normal)

GGT 72 (17 normal)

Serum Bilirubin 10.5 (normal 2.1)

What is the most likely differential?

Please choose only one answer:

- Anorexia
- Acute muscle necrosis
- Acute hepatocyte necrosis
- Cholestasis
- Hemolysis

Check the answer of this question online at QuizOver.com:

Question: [The following is from a 5 yr old horse Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-following-is-from-a-5-yr-old-horse-brooke-delaney-kidney?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-following-is-from-a-5-yr-old-horse-brooke-delaney-kidney?pdf=1505>

4.1.23. 8 day old calf severe watery diarrhea, dehydration, sternally recum...

Author: Brooke Delaney

8 day old calf severe watery diarrhea, dehydration, sternally recumbant. One of the values that was increased on the Chemistry panel was GGT. What is the cause of this?

Please choose only one answer:

- All neonates have higher GGT values because of colostrum.
- There may be significant muscle disease explaining the recumbency.
- This calf did not receive enough colostrum, therefore the GGT is not increased.
- This calf has received iatrogenic steroids.
- This is diagnostic of a liver shunt.

Check the answer of this question online at QuizOver.com:

Question: [8 day old calf severe watery diarrhea Brooke Delaney Kidney/Liver](#)

Flashcards:

<http://www.quizover.com/flashcards/question-8-day-old-calf-severe-watery-diarrhea-brooke-delaney-kidney-l?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-8-day-old-calf-severe-watery-diarrhea-brooke-delaney-kidney-l?pdf=1505>

4.1.24. 9 day old quarter horse mare off feed PU/PD

Glucose :146 (normal 1...

Author: Brooke Delaney

9 day old quarter horse mare off feed PU/PD

Glucose :146 (normal 136)-high

BUN 46 (normal 28) Creat 6 (normal 1.8) TP (normal)

Phosphorus 1.3 (normal 4.6)- low Albumin 2.2 (normal 2.5) -low

Calcium 15.4 (normal 13.4)-high Globulin (normal)

Urinalysis: USG: 1.011 Protein :3+ WBC /RBC: rare

What is occurring?

Please choose only one answer:

- Glomerular issue
- renal tubular issue
- renal failure
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [9 day old quarter horse mare off feed PU Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-9-day-old-quarter-horse-mare-off-feed-pu-brooke-delaney-kidne?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-9-day-old-quarter-horse-mare-off-feed-pu-brooke-delaney-kidne?pdf=1505>

4.1.25. Liver failure requires 70-80% of the liver damaged. True /False

Author: Brooke Delaney

Liver failure requires 70-80% of the liver damaged. True /False

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Liver failure requires 70-80 of the liver Brooke Delaney Kidney Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-liver-failure-requires-70-80-of-the-liver-brooke-delaney-kidn?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-liver-failure-requires-70-80-of-the-liver-brooke-delaney-kidn?pdf=1505>