**Practice Question**

What effect is expected following a Recombitek C3 vaccination series in African wild dog pups?

A. Protective titers for canine distemper virus and canine parvovirus at 16 weeks

B. Protective titers for canine distemper virus but not canine parvovirus at 16 weeks

C. Protective titers for canine parvovirus but not canine distempe rvirus at 16 weeks

D. Low titers for canine distemper and parvovirus at 16 weeks but not protective

E. No titers for canine distemper virus or canine parvovirus  at 16 weeks

Answer: D

You are preparing for a capture and release routine health assessment of wild re-introduced black-footed ferrets (*Mustela nigripes*) but you have an extremely limited supply of Purevax recombinant canarypox-vectored ferret distemper virus vaccine. Please describe how you will proceed regarding vaccination of the population for canine distemper virus.

Use limited Purevax supply to give wild BFFs one dose – shown to be equally effective to 2 doses based on serum neutralizing antibody titers at 1 year. If/when you run out, can use Recombitek recombinant canine distemper virus vaccine which has been shown to produce protective titers with 2 doses in wild BFFs at 1 year. (Wright 2022)

**Practice Question:** Which of the following was similar between passive surveillance and enhanced passive surveillance for canine distemper virus in raccoons (*Procyon lotor*)?

1. Characteristics of CDV+ raccoons
2. Number of submissions to each program
3. Geographic distribution of submissions
4. Proportion of yearly reports classified CDV+
5. Overall proportion of CDV+ raccoons over time

Answer: E

**Practice Question:**

In stranded sea otters (*Enhydra lutris*) found on the Washington coast, which of the following was identified as the causative agent of morbilliviral disease and what was a principal diagnostic feature?

1. Phocine distemper virus & white and gray matter inflammation
2. Canine distemper virus & morbillivirus-associated pneumonia
3. Cetacean morbillivirus & lymphocytolysis and lymphoid depletion
4. Phocine distemper virus & morbillivirus-associated pneumonia
5. Canine distemper virus & white and gray matter inflammation

Answer: E

Which of the following is true about the Red Pandas’ (*Ailurus fulgens*) serologic response to canarypox-vectored canine distemper virus?

1. Humoral responses to the canarypox-vectored CDV vaccines are much faster than previously expected in red pandas
2. Multiple adverse effects were reported for canarypox-vectored vaccination from the zoos that participated in the study performed by Ramsay, et.al
3. Generally, it is found that all red pandas produced an intermediate to protective titers regardless of age
4. It’s recommended that red pandas be administered an initial series of 3 canarypox-vectored CDV vaccinations and then annual boosters
5. An initial rCDV vaccination series produced the same antibody titers as a series of the PFD vaccinations

Answer: D

Which of the following large felid species (*Panthera spp.*) had the lowest rate of seroconversion to the canine distemper vaccination?

1. Amur Leopards (*Panthera pardus orientalis*)
2. Jaguars (*Panthera onca*)
3. Lions (*Panthera leo*)
4. Tigers (*Panthera tigris*)
5. Snow Leopards (*Panthera uncia*)

Answer: E

**GEOGRAPHIC SPREAD OF CANINE DISTEMPER IN WILD CARNIVORES IN MICHIGAN, USA: PATHOLOGY AND EPIDEMIOLOGY, 2008–18.**

Fitzgerald SD, Melotti JR, Cooley TM, Wise AG, Maes RK, O'Brien DJ.

Journal of Wildlife Diseases. 2022;58(3):562-574

Which of the following tissues is most likely to show histologic lesions and be positive on IHC for Canine Distemper Virus in a raccoon?

1. Brain
2. Heart
3. Lung
4. Spleen
5. Urinary bladder

Answer: C

**TEMPORAL AND SPATIAL PATTERNS IN CANINE DISTEMPER VIRUS CASES IN WILDLIFE DIAGNOSED AT THE SOUTHEASTERN COOPERATIVE WILDLIFE DISEASE STUDY, 1975-2019.**

Taylor K, Wilson JJ, Park AW, Nemeth NM, Yabsley MJ, Fenton H, Keel MK, Gottdenker NL.

J Wildl Dis. 2021;57(4):820-830

Which of the following is most likely to be a positive predictor for a positive Canine Distemper Virus case in a raccoon in Georgia?

1. Non-breeding season
2. Low number of raccoon cases in the previous 2 months
3. Low number of grey fox cases in the current month
4. Urban location
5. Suburban location

Answer: E

**Article:** McEntire, Michael, et al. "Tiger (panthera tigris) and domestic cat (felis catus) immune responses to canarypox-vectored canine distemper vaccination." *Journal of Zoo and Wildlife Medicine* 50.4 (2020): 798-802.

Which of the following is true about the canarypox-vector recombinant CDV vaccine in tigers?

1. Both tonsillar and parenteral administration resulted in a poor serologic response
2. Only tonsillar application of the vaccine resulted in a poor serologic response
3. Only parenteral application of the vaccine resulted in a poor serologic response
4. Parenteral administration in a pregnant tiger resulted in birth defects
5. Parenteral administration caused adverse effects including hyporexia and vomiting

Answer: A

**Article:** Woodroffe, Rosie. "Modified live distemper vaccines carry low mortality risk for captive african wild dogs, lycaon pictus." *Journal of Zoo and Wildlife Medicine* 52.1 (2021): 176-184.

Which age group are African wild dogs expected to develop vaccine-induced canine distemper?

1. 0-60 days old
2. 45-99 days old
3. 60-119 days old
4. 6-12 months old
5. >12 months old

Answer: B