AFIP MINIBOARD EXAMINATION MAY 2007

LAB ANIMAL PATHOLOGY

1.		nich of the following is(are) a feature(s) of Simian retrovirus type D infection in caques?			
	A.	The most significant viral agent of acquired immunodeficiency			
	B.	Seronegativity in viral-infected macaques is common			
	C.	Virus is tropic for B and T lymphocytes, macrophages, and epithelial cells			
	D.	Uniquely associated diseases include noma and retroperitoneal fibromatosis			
	E.	All of the above			
2.		is the primary cause of bacterial meningitis in nonhuman primates.			
	A.	Streptococcus pneumoniae			
	B.	Klebsiella pneumoniae			
	C.	Pasteurella multocida			
	D.	Neisseria meningitides			
	E.	Streptococcus pyogenes			
3.	Comn	Common sites of cysts in hamsters include all of the following EXCEPT:			
	A.	Liver			
	B.	Kidney			
	C.	Pancreas			
	D.	Epididymis			
	E.	Seminal vesicles			

4.	4. Common lesions of Hamster Parvovirus include all of the following EXCEP:			
••	A.	Domed calvaria		
	В.	Testicular atrophy		
	C.	Cerebellar hypoplasia		
	D.	Enamel hypoplasia of the incisor teeth		
	Б. Е.	•••		
	E.	Incisor enamel hypoplasia		
5.	Gross and microscopic lesions in the adult form of rat virus disease include all of the following EXCEPT:			
	A.	Scrotal hemorrhage and peritesticular fibrinous exudation		
	B.	Hemorrhage and malacia in the cerebrum and cerebellum		
	C.	Cerebellar hypoplasia		
	D.	Intranuclear inclusions in hepatocytes, endothelial cells and biliary epithelium		
	E.	Abortion and fetal resorption		
6.	Gross and microscopic lesions of sialodacryoadenitis in the rat include all of the following EXCEPT:			
	A.	Necrosis of ductal and acinar epithelial cells of the parotid and submandibular salivary and lacrimal glands		
	В.	Nonkeratinizing squamous metaplasia of ductal and acinar structures of salivary and lacrimal glands		
	C.	Corneal ulceration		
	D.	Necrotizing rhinitis of both the respiratory and olfactory epithelium		
	E.	Transient tracheitis with bronchitis, bronchiolitis, and loss of respiratory epithelial cells		

7.	In th	In the guinea pig, all of the following are true concerning rhabdomyomatosis, EXCEPT:				
	A.	The vacuoles contain glycogen				
	B.	Most frequently seen in left ventricle				
	C.	May be observed in guinea pigs of various ages				
	D.	Can be associated with compromised cardiac function				
	E.	Vacuolated myofibers may have "spider cell" appearance				
8.	All o	All of the following are consistent with adenoviral pneumonitis in guinea pigs EXCEPT:				
	A.	Consolidation of the cranial lung lobes				
	B.	Scattered necrotic foci				
	C.	Lymphoplasmacytic bronchiolitis				
	D.	Epithelial intranuclear inclusion bodies				
	E.	Low morbidity rate but mortality rate up to 100%				
9.	All o	All of the following are lesions associated with Tyzzer's Disease in gerbils EXCEPT:				
	A.	Necrotizing hepatitis				
	B.	Suppurative encephalitis				
	C.	Necrosis of enterocytes in the ileum and cecum				
	D.	Necrotizing myocarditis				
	E.	Suppurative pneumonia				

10.	The laboratory animal that is a useful sentinel animal for Tyzzer's Disease is:		
	A.	Rat	
	B.	Gerbil	
	C.	Hamster	
	D.	Mouse	
	E.	Rabbit	
11. Concerning SCID in mice, all of the following statements are true,		erning SCID in mice, all of the following statements are true, EXCEPT:	
	A.	Inherited as an autosomal recessive trait	
	B.	Affected mice are susceptible to fungal infections	
	C.	DNA-PK enzyme activity is normal	
	D.	Affected mice are highly susceptible to ionizing radiation	
	E.	The life span of affected mice is decreased	
12.	All are true about thymoma in the hamster EXCEPT:		
	A.	a viral pathogenesis is likely	
	B.	it largely resembles thymoma in humans	
	C.	most have been classified as B1 thymomas	
	D.	it is located in the anterior mediastinum	
	E.	areas of medullary and cortical differentiation are present in the tumors	

13.	3. All of the following are true regarding eosinophilic crystalline pneumonia EXCEPT:			
	A.	More common in males		
	B.	Composed of Ym1 protein		
	C.	Common in C57BL/6 mice		
	D.	Common in 129S4/SvJae mice		
	E.	Increased incidence in older mice		
14.	All of	the following are true about Hamster Polyomavirus EXCEPT:		
	A.	Caused hair follicle epitheliomas		
	B.	Lymphomas do not contain infectious virus		
	C.	Causes epizootics of lymphoma in young hamsters		
	D.	Lymphomas primarily arise in the spleen, and axillary and cervical lymph nodes		
	E.	Adult hamsters are susceptible to the oncogenic effects of Hamster polyomavirus		
15.	All of the following are true regarding atrial thrombosis in hamsters EXCEPT:			
	A.	Involves right auricle and atrium		
	B.	Often associated with amyloidosis		
	C.	Results in a consumptive coagulopathy		
	D.	Females are affected earlier than males		
	E.	Causes bilateral ventricular hypertrophy		

In the rat, intestinal villous attenuation, necrosis of enterocytes with epithelial syncytia are pathognomic for which virus:							
A. Se	endai virus						
B. R	B. Rotavirus						
C. Pa	C. Parker's rat coronavirus						
D. K	Kilham's rat v	irus					
E. H	antavirus						
	In the rat, <i>Mycoplasma pulmonis</i> has an affinity for epithelial cells of which of the following:						
		1.	Respiratory tract				
		2.	Middle ear				
		3.	Endometrium				
A.	1 and 2						
B.	1 and 3						
C.	2 and 3						
D.	All of the a	bove					
E.	None of the	above					
Regarding myofascitis in the domestic ferret, all of the following are true EXCEPT:							
A.	It is a disease of young ferrets						
B.	There is atrophy of skeletal muscle, esophageal dilatation, and splenomegaly						
C.	Myeloid hy	Myeloid hyperplasia of the spleen and bone marrow is a prominent feature					
D.	There is eos	sinophilio	c inflammation of the skeletal muscle and fascia				
E.	Striated mu	scle of th	ne esophagus, heart, limbs, and head can be involved				
	A. See B. R. C. Pa B. H. In the follow A. B. C. D. E. Regard A. B. C. D. C. D.	are pathognomic for A. Sendai virus B. Rotavirus C. Parker's rat cord D. Kilham's rat virus E. Hantavirus In the rat, Mycople following: A. 1 and 2 B. 1 and 3 C. 2 and 3 D. All of the and E. None of the service of	are pathognomic for which A. Sendai virus B. Rotavirus C. Parker's rat coronavirus D. Kilham's rat virus E. Hantavirus 1. 2. 3. A. 1 and 2 B. 1 and 3 C. 2 and 3 D. All of the above E. None of the above Regarding myofascitis in the A. It is a disease of you B. There is atrophy of so C. Myeloid hyperplasia D. There is eosinophilic				

19.	The most likely cause of chronic, suppurative cervical lymphadenitis in guinea pigs is:		
	A.	Streptococcus zooepidemicus	
	B.	Streptobacillus moniliformis	
	C.	Klebsiella pneumoniae	
	D.	Streptococcus pneumoniae	
	E.	Pasteurella multocida	
20.	All of EXCE	the following are lesions associated with hyperadrenocorticism in breeding gerbils PT:	
	A.	Fatty liver	
	B.	Thymic involution	
	C.	Atrophy of pancreatic islets	
	D.	Adrenal lipid depletion	
	E.	Adrenal hemorrhage	
21. In the ferret, proliferative colitis is a feature of infection with:		ferret, proliferative colitis is a feature of infection with:	
	A.	Coronavirus	
	B.	Helicobacter mustelae	
	C.	Lawsonia intracellulare	
	D.	Clostridium piliformis	
	E.	Canine morbillivirus	

22.	The most likely route of transmission of <i>Pasteurella multocida</i> in rabbits is:		
	A. Direct nasal contact with a shedder animal		
	B.	Venereal spread	
	C.	Aerosol spread	
	D.	Contact with fomites	
	E.	Orphan kits nursing an infected doe	
23.	An immunohistochemical stain identified as a marker of anaplasia in ferret adrenocortica tumors is:		
	A.	GFAP	
	B.	MAP-2	
	C.	GATA-4	
	D.	desmin	
	E.	NFP	
24.	Regarding chronic progressive glomerulonephropathy in rats, all of the following are considered predisposing factors EXCEPT:		
	A.	Age, animals over 12 months of age	
	B.	High protein diets	
	C.	Prolactin levels	
	D.	Sex, disease is more common and more severe in males	
	E.	Mesangial deposition of IgG	

25.	In rats, polyarteritis nodosa may affect medium-sized arteries in all of the following EXCEPT:		
	A.	Lung	
	B.	Pancreas	
	C.	Testis	
	D.	Kidney	
	E.	Mesentary	