

Element of Competency V6:11 *Develop management strategies for dealing with uncommon diagnoses (including exotic non-notifiable diseases).*

Those diseases which the entry level veterinarian will be able to rationally include in a list of diagnostic hypotheses on the basis of presenting syndrome/epidemiologic pattern, but not be expected to diagnose and manage without consultation.

* see Competency V6.23f, page 121; diagnoses which will be considered on the basis of necropsy

^z = zoonotic potential

WHOLE BODY/PAN - OR	CATTLE	SHEEP	GOATS	SWINE
<u>MULTI SYSTEMIC</u>	Copper deficiency* Ergotism* Exposure/Frostbite* Hypovitaminosis A Neonatal metabolic acidosis without dehydration Toxicities*/poisonings: - algae - copper - iodine - lead* - organophosphate* - nitrite/nitrate - rodenticide - urea* - yew*	Copper deficiency* Ergotism* Exposure/Frostbite* Leptospirosis* ^z Toxoplasmosis	Copper deficiency* Exposure/Frostbite* Leptospirosis* ^z <i>Mycoplasma mycoides</i> * Toxicities/poisonings: - copper* - organophosphate* - yew* Toxoplasmosis Neonatal metabolic acidosis without dehydration	Exposure/Frostbite* Iron sensitivity* Malignant hyperthermia*
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
Exposure/Frostbite*	Exposure/Frostbite*	Electrocution (includes lightning)* Exposure/Frostbite* Toxicities/poisonings: * - organophosphate - yew*	Electrocution* Exposure/Frostbite* Hypoglycemia, adult Leptospirosis* ^z Lyme disease (Borreliosis) Neospora Systemic Lupus Erythematosus Systemic mycosis* Toxicities/poisonings: * - chocolate - copper - organophosphate	Electrocution* Exposure/Frostbite* Systemic mycosis* Toxicities/poisonings: * - acetaminophen - organophosphate

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WHOLE BODY/PAN - OR MULTI SYSTEMIC	FISH	AMPHIBIANS/REPTILES	AVIAN	
	Gram negative bacterial septicemia* Microspora Myxosporea	Inclusion body disease of boids Vitamin E deficiency*	Amyloidosis* Duck plague* Erysipelas Organophosphate/carbamate toxicity	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
Tyzzler's disease* Listeriosis* ^z	<u>Gerbils:</u> Tyzzler's disease* <u>Guinea pigs:</u> Metastatic calcification* <u>Rats:</u> Tyzzler's disease*		See dog & cat as appropriate/ feasible <u>Felidae:</u> Canine distemper Feline infectious hepatitis <u>Procyonidae:</u> Infectious canine hepatitis <u>Ursidae:</u> Infectious canine hepatitis <u>Viveridae:</u> Canine distemper	<u>Cervids/camelids</u> - as per farmed <u>Bovidae:</u> Copper deficiency* Exposure/Frostbite* <i>Mycoplasma mycoides</i> * Toxicities/poisonings:* - lead* - organophosphate* - yew* Toxoplasmosis

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ALIMENTARY	CATTLE	SHEEP	GOATS	SWINE
	Abomasal impaction* Actinobacillosis* Cleft palate* Fascioliasis* Intussusception* Pyrrolizidine alkaloid intoxication* Salmonellosis (enteric)* ^z Tooth abscess* Traumatic pharyngitis*	Abomasal emptying defect* Abomasal impaction* Cleft palate* Cysticerciasis* Fascioliasis* Oral necrobacillosis* Salmonellosis (enteric)* ^z Tapeworms*	Cleft palate* Cysticerciasis* Salmonellosis (enteric)* ^z Yersiniosis* ^z	Cleft palate* Mycotoxin feed refusal Rectal prolapse* (feed change) Salmonellosis (enteric)* ^z Splenic/gastric/hepatic torsion*
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
Hepatic fascioliasis* Neonatal diarrhea*	Gastrointestinal parasitism*	Cleft palate* Dental attrition (2° to cribbing) Dentigerous cysts* Enteroliths/fecoliths/bezoars* Gastric/esophageal ulcers* Hepatic dysfunction/failure* (including Theiler's disease) Malassimilation/protein-losing enteropathy:* - inflammatory bowel disease* - intestinal lymphosarcoma* Rectal prolapse*	Chronic active hepatitis Cleft palate* Enteric neoplasia* Enteritis (bacterial - <i>Campylobacter</i> ^z , <i>Salmonella</i> ^z , <i>Clostridia</i>) Esophagitis* Hepatopathy* (drug-induced) Malabsorption Maldigestion/pancreatic exocrine insufficiency* Malocclusion* Megaesophagus* Portosystemic shunts* Protein-losing enteropathy/ lymphangectasia* Sialocoele*	Cholangiohepatitis* Cleft palate* Colitis/Gastritis/Enteritis* Megacolon Oral neoplasia*

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ALIMENTARY	FISH	AMPHIBIANS/REPTILES	AVIAN	
		Coccidiosis*	Hepatic dysfunction* Pacheco's parrot disease*	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
	Guinea pigs: Coccidiosis* Cryptosporidiosis*	Enteric neoplasia* <i>Helicobacter gastritis</i> *	See dog & cat as appropriate/ feasible	<u>Cervids/camelids</u> - as per farmed <u>Bovidae</u> : Actinobacillosis* Cleft palate* Intussusception* Oral necrobacillosis* Salmonellosis (enteric)* ^z Tooth abscess*

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<u>CARDIOVASCULAR/ HEMIC-LYMPHATIC</u>	CATTLE	SHEEP	GOATS	SWINE
	Bracken fern toxicosis Ionophore toxicity* Myocarditis* (<i>H. somnus</i>) Sporadic bovine leukosis/ lymphosarcoma* Sweet clover toxicity Vitamin D toxicity	Bracken fern toxicosis <i>Brassica</i> anemia	<i>Brassica</i> anemia Thymoma*	Encephalomyocarditis (picornavirus)* Eperythrozoonosis
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		Anticoagulant rodenticide intoxication* Aortoiliac thrombosis* Combined immunodeficiency Congenital heart defects (Simple (e.g. VSD) vs Complex (e.g. Tetralogy of Fallot))* Congestive heart failure* Equine Infectious Anemia Hemorrhagic diatheses (thrombocytopenia, DIC)* Hemorrhagic purpura* Ionophore toxicity* Lymphosarcoma*	Congenital cardiac defects (VSD, PS, AS)* Immune-mediated hematopoietic disease (bone marrow disorders) Factor VIII Deficiency Von Willebrand's disease	Arteriothromboembolism* Cardiomyopathy* (other than hypertrophic)

<u>CARDIOVASCULAR/ HEMIC-LYMPHATIC</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
		Blood parasites	Blood parasites	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
	<u>Hamsters:</u> Thrombosis of left auricle*	Cardiomyopathy* Heartworm disease*	See dog & cat as appropriate/ feasible <u>Felidae:</u> FeLV, FIV*	<u>Bovidae:</u> Ionophore toxicity*

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<u>ENDOCRINE</u>	CATTLE	SHEEP	GOATS	SWINE
		Goiter*	Goiter*	
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		Hyperlipemia* Pituitary adenoma*	Diabetic ketoacidosis Insulinoma Hyperlipidemia Hypoadrenocorticism*	Diabetic ketoacidosis

<u>ENDOCRINE</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
		Goiter*		
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
	<u>Gerbils:</u> Adrenal cortical neoplasia*		See dog & cat as appropriate/ feasible	<u>Bovidae:</u> Goiter*

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INTEGUMENTARY	CATTLE	SHEEP	GOATS	SWINE
	Photosensitization* Stephanofilariosis* Tail tip necrosis* Tick infestation*	Photosensitization* Ringworm* ^z Squamous cell carcinoma*	Ringworm* ^z	Contact dermatitis* Epitheliogenesis imperfecta* Melanoma*
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
	Grunge	Anhidrosis Cutaneous lymphoma* Fistulous withers* Habronemiasis* Nodular necrobiosis* Onchocerciasis* Photosensitivity* Selenosis* Squamous cell carcinoma* Vitiligo* Myiasis (warble infestation*)	Bacterial/fungal dermatitis* (superficial, deep, regional) (juvenile cellulitis, <i>Malassezia</i> , organisms causing granulomas) Endocrine dermatitis* (Cushings, Sertoli cell tumor, interstitial cell tumor, GH deficiency) Immune-mediated disease* (Pemphigus group, SLE, drug eruptions, vasculitis, superficial necrolytic) Parasitic dermatitis* (lice, ticks, <i>Cuterebra</i> , rhabditis) Perianal fistula* Solar dermatitis*	Idiopathic ulcerative dermatitis* Immune-mediated disease* (Pemphigus group) Plasma cell pododermatitis* Solar dermatitis*

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<u>INTEGUMENTARY</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
	Dermatitis: <i>Chilodonella sp.</i> Copepods* Fish lice* <i>Ichthyophthirius sp.</i> * Monogenean trematodes* <i>Saprolegnia</i> * <i>Trichodina sp.</i> *	Leeches* Ticks*		
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
Sore hocks	<u>Hamsters:</u> Pododermatitis* <u>Rats:</u> Ringtail*		See dog & cat as appropriate/ feasible	<u>Bovids/cervids/camelids</u> - as per domestic

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<u>MUSCULOSKELETAL/ LOCOMOTOR INCLUDING DISORDERS OF THE FOOT</u>	CATTLE	SHEEP	GOATS	SWINE
	Botulism Corkscrew claw* Double muscling* Osteochondrosis* Osteodystrophy* Spastic paresis	Arthrogryposis* Chondrodysplasia (Spider lambs)* Foot abscess* Ionaphore toxicity Laminitis* Osteodystrophy* Osteoporosis*	Clostridial myositis* Laminitis* Osteodystrophy* Osteoporosis*	Biotin deficiency
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		Botulism Clostridial myositis* Hyperkalemic periodic paralysis Nutritional 2° hyperparathyroidism* Quittor Stringhalt "Shivers"	Angular limb deformities* Fracture* non-union/ mal-union Hypertrophic osteodystrophy* Hypertrophic osteopathy* Polyarthropathy*	

<u>MUSCULOSKELETAL/ LOCOMOTOR INCLUDING DISORDERS OF THE FOOT</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
			Nutritional/exertional myopathy* Septic arthritis*	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
			See dog & cat as appropriate/ feasible	<u>Bovidae:</u> Arthrogryposis* Osteodystrophy*

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<u>NERVOUS EXCLUDING LOCOMOTOR & BALANCE</u>	CATTLE	SHEEP	GOATS	SWINE
	Brain/pituitary abscess* Hydrocephalus* Vertebral body abscess*	Border Disease* Brain/pituitary abscess* Scrapie* Vertebral body abscess*	Brain/pituitary abscess* Mannosidosis* Vertebral body abscess*	Encephalomyelitis* Salt poisoning* Selenium toxicity Vertebral body abscess*
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
Parelaphostrongylosis* Polioencephalomalacia*	Parelaphostrongylosis*	Atlantal-occipital malformation* Cerebellar abiotrophy/hypoplasia Equine degenerative myeloencephalopathy* Hepatic encephalopathy* Horner's syndrome Hydrocephalus*	Cervical vertebral malformation/malarticulation* Discospondylitis* Distemper* Facial paralysis (idiopathic) Fibrocartilagenous embolization* Hepatic encephalopathy* Horner's syndrome Hydrocephalus* Lumbosacral syndrome Meningitis* Metaldehyde toxicity Polyneuropathy Strychnine toxicity	Cerebellar hypoplasia* Feline ischemic encephalopathy Horner's syndrome Meningioma*

<u>NERVOUS EXCLUDING LOCOMOTOR & BALANCE</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
		Thiamine deficiency		
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
	<u>Hamsters:</u> Lymphocytic choriomeningitis ^z <u>Mice:</u> Lymphocytic choriomeningitis ^z		See dog & cat as appropriate/feasible	<u>Cervids/camelids</u> - as per farmed <u>Bovidae:</u> Hydrocephalus* Vertebral body abscess*

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<u>PERITONEUM/PLEURA</u>	CATTLE	SHEEP	GOATS	SWINE
	Pneumoperitoneum	Hernias: [*] - inguinal/scrotal - umbilical	Hernias: [*] - inguinal/scrotal - umbilical	
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
Hernias: [*] - umbilical - inguinal/scrotal	Hernias: [*] - inguinal/scrotal - umbilical		Hernias: [*] - diaphragmatic/perineal - inguinal/scrotal	Hernias: [*] - inguinal/scrotal - umbilical - diaphragmatic

<u>PERITONEUM/PLEURA</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
			Ascites [*] Yolk peritonitis [*]	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
			See dog & cat as appropriate/ feasible	<u>Cervids/camelids</u> - as per farmed <u>Bovidae</u> : Hernias: [*] - inguinal/scrotal - umbilical

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REPRODUCTIVE/MAMMARY	CATTLE	SHEEP	GOATS	SWINE
	Bovine herpes mammilitis/ pseudocowpox* Hydrops allantois* Neospora* Penile hematoma* Ruptured uterine artery*	Epididymitis* Estrogenism* Uterine perforation/rupture*	Cystic ovarian disease* Precocious milkers Pseudopregnancy Uterine perforation/rupture*	Teat necrosis*
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		Granulosa cell tumor* Orchitis* Paraphimosis/phimosis* Premature placental separation* Rupture of prepubic tendon* Squamous cell tumor of the penis* Testicular neoplasia* Testicular torsion*	Azoospermia Balanoposthitis* Brucellosis* Canine herpes virus* Cystic endometrial hyperplasia* Prostatitis/cystic disease/ tumour* Reproductive tract anomalies* (septate vagina, persistent hymen) Retained placentae* Testicular neoplasia* Transmissible venereal tumour* Vaginal mucosal hyperplasia*	

REPRODUCTIVE/MAMMARY	FISH	AMPHIBIANS/REPTILES	AVIAN	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
<i>Treponema</i> infection*	<u>Gerbils:</u> Ovarian tumors*		See dog & cat as appropriate/ feasible	<u>Bovidae:</u> Bovine herpes mammilitis/ pseudocowpox* Uterine perforation/rupture*

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<u>RESPIRATORY</u>	CATTLE	SHEEP	GOATS	SWINE
	Cornual sinus empyema* Diaphragmatic hernia* Embolic pneumonia* Laryngitis/pharyngitis*	Aspiration pneumonia* Nasal tumor*/polyp	Aspiration pneumonia*	Inclusion body rhinitis Manure gas inhalation
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		<i>Dictyocaulus arnfieldi</i> infection* Ethmoid hematoma* Equine viral arteritis Guttural pouch tympany/empyema/ mycosis* Nasal polyps* Synchronous diaphragmatic flutter	Aspiration pneumonia* Bronchitis Interstitial pneumonia* Laryngeal obstruction/paralysis Nasal polyp/tumor*	Empyema (pyothorax)* Nasal polyp/tumor*

<u>RESPIRATORY</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
	(see Integumentary System)	Viral pneumonia	Infectious bronchitis* Infectious laryngotracheitis* <i>Mycoplasma</i> infections*	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
	<u>Guinea pigs:</u> <i>Bordetella</i> infections* Pneumococcal infections*	Aspiration pneumonia* Influenza	See dog & cat as appropriate/feasible <u>Felidae:</u> Feline upper respiratory tract disease (Herpes virus, Calicivirus, <i>Chlamydia</i> , <i>Mycoplasma</i>)*	<u>Bovidae:</u> Aspiration pneumonia* Embolic pneumonia* Nasal polyp/tumor*

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<u>SPECIAL SENSES</u>	CATTLE	SHEEP	GOATS	SWINE
	Dermoid (ocular)* Otitis externa/media*		Ear mites*	
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		Glaucoma Ocular squamous cell carcinoma* Panophthalmitis*	Blepharitis Lens luxation Ocular and orbital neoplasia* Retinal disease (PRAA/SARD)	Cataracts Corneal sequestrum* Exposure keratitis* Glaucoma Lens luxation

<u>SPECIAL SENSES</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
			See dog & cat as appropriate/ feasible	

<u>URINARY</u>	CATTLE	SHEEP	GOATS	SWINE
	Cystitis* Patent urachus* Urinary bladder paralysis			
FARMED DEER	FARMED CAMELID	HORSES	DOGS	CATS
		Acute and chronic renal failure* Nephrotoxicosis* (due to Vit K ₃ toxicity, aminoglycosides, mercury blisters, NSAIDS)	Bladder tumors*	Urinary tract trauma*

<u>URINARY</u>	FISH	AMPHIBIANS/REPTILES	AVIAN	
RABBITS	RODENTS	FERRETS	NON-DOM CARNIVORES	NON-DOM UNGULATES
			See dog & cat as appropriate/ feasible	