Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
		Same corynbacterium		Exudate	تطهير الخراج اسفل الفك والاذن و
Morel's dis	Anaerobic staphilococcus aureus	Superfacial I.n only but			اليود
" Abscess dis. "		Spread faster than coryn	1		penecillin
					Dead vaccine
		*Young calves < 3m		Systemic:	
Calf Diphtheria	Fusobacterium necrophorum	foul-smelling and swelling of the mo	outh	ceftiofur - nuflor	
الخناق		Difficult breath, chewing and swallo	owing	Locally :	
" Foot rot "	Present normally in cattle	*older cattle	_	تقليم القدم Foot trimming	
	intestine	عفن الحافر foul-in-the foot		Spray	
		and liver abs	cess	Foot bath	
		• Fever.		Eliza pcr	*Florfenicol
Pasteurella	Pasteurella multocida ve	Nasal discharge : pus			*Marbocvl
rastearena		• cough.		Stress (travel, density,new	*killed vaccine immunity for
				environment)	6 months
		Rapid, shallow breathing.		, ,	
		Fever.		Eliza pcr	Drug of choice
	36 1 1 1 1	Nasal discharge: watery			*Tylosine
Mycoplasma	Mycoplasma bovis +ve	• cough.		Cough , nasal secretions, and	
		<ul> <li>Rapid breathing.</li> </ul>		direct contact	*Draxin
		Arthritis			
		Mastitis			
		Why tylosin not penicillin?			
		Mycoplasma lack a cell wall around	their cell membranes. This		
		characteristic makes them resistant			
		cell wall synthesis (like the beta-lact			
		penicillin)	tarri artibiotics sacri		
		But tylosine act on protein synthesi	s maka inhihitian		
	Clostredia perfringes	characterized by sudden death in	I make minibition		Vaccine : killed vaccine
Estantamenta	Ciostredia periringes	Sheep			
Enterotoxemia					immunity for 6 months
Rhodococcus equi		pneumonia in young horse (foal)			
	bacteria	abortion			
Q fever	Coxiella burnetii				
{Zoontotic disease}			l		

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Glander, Farcy Intracellular	Burkholderia malli _ve  Morbidity 95% Incubation period 3d:2 week	Fever – mucopurulent nasal discharge – ulcerative nodules on 3 forms *Nasal *Pulmonary *Cutenauos "farcy"	*Eliza *PCR *mallentest	Meat , food , water from infected animal	Streptomycin Gentamycin Doxycyclin No vaccine cz Polysacharide capsule
Strangles, Distimper	Streptococcus equi +ve Incubation period 3d: 2 week	Fever 41.1 - mucopurulent nasal discharge – lymphadenopathy - Bastard difficult swolling – noisy respiration – extended neck – brain abscess	Microscopic examination	*Direct contact with Exudate  * Flies insect	*Drug of choice Penecillin *NSAID *تطهيرخراج ويود *intranasal attenuated vaccine
Brucella, Storm abortion Intracellular	Coccobacilli_ve Ziehl nelson tr	Late abortion - Anemia Weakness of new born Retained placenta - Bull: Orchitis Human: fever- night sweat	*Rose Bengal test : Rapid slide agglutination *Milk ring test	Shed in Blood milk semen urine uterine secretion . Transmitted to human by contact to aborted fetus	Test& slaughter Vaccine: "RB51 for cow "Rev1 for sheep and goat Rifampin for human
T.B Intracellular . Tubercle is : 'cytokines and dead macrophages granulocyte lymphoc fibrous capsule & granulation tissue	Mycobacterium tuberculosis Acid fast bacilii Ziehl nelson Infect mainly LN of mesenteric and pharynx and lung macrophages	Wet cough - Broncho Pn. Enlarged I.n – affect internal I.n liver spleen kidney through Macrophages - Emaciation-bloat	Tuberculin test: Intra dermal if swelling + slaughter	*Air born dis. Infected droplets *Inside body by Macrophages	Eradication Test slauter المحالج فالحيول Y BCG vaccine Rifampin for human for 6 -9 mo
Para T.B Johne's dis. Ch. By Peyer's patches in intestine	Mycobacterium paratuberculosis High MB rate 80% Incubation period: 2-5 years	Bottle jaw - Sever Diarrhia - Low milk production - Emaciation - death	Eliza pcr Control : Clean feed and water and area Colostrum for newborn	*Fecal oral route *Intra uterine *Milk	لاپوجد علاج و لا تحصين الاسان پسيله مرض Crohn dis. Chronic granulomato enteritis cause diarrhea – weigh – weakness - death
Pseudo T.B البل الكانب	Corynebacterium pseudotuberculos	*Caseous lymphadenitis in Sheep *Ulcer pharyngitis in cow and horse *Oeder *Abscess in camel	natous skin dis (OSD) buffaolo	Exudate	تطهير الخراج اسفل الفك والاذن و البود penecillin BCG vaccine

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Peste des Petits Ruminants (PPR)  "goat plague"  Notifable disease goats exhibit more severe clinical disease than sheep	Morbilli virus of Paramixoviridae  High MR MB  P.M (zebra striped appearance)	fever – depression - discharges from the eyes and nose – foul smelling diarrhoea – death	Eliza pcr	*Broad spectrum antibiotics * live attenuatd vaccine 1Y imm *control: mass vaccination can cycle of the virus.	
Foot-and-mouth disease (FMD) Not infect horse or donkey	on large intestine Aphtho virus of Picornaviridae	Fever – Ropy (foamy) saliva – vesicles in the mouth, tongue, udder and claws -lameness – low milk production	7 serotypes of FMDV : A, O, C, Asia1, SAT1, SAT2, and SAT3	inhalation, ingestion and direct contact	Killed vaccine Immunity for 6 months FMD vaccine produced in the form of Imunty for
Rabies	Rhabdo virus Inflamation of the brain	After rabies bite prodromal phase nervous signs Furlous phase aggressive – off food – "Mad dog syndrome" Dumb phase virus take over all body - paralysis		Only by the bite of a rabid animal Or saliva	*no treatment for a dog with rabies. *vaccine only effective if given before the virus enters the nervous system.
Lumpy skin disease (LSD) not affect sheep and goat	capripox virus			Insect bite – mosquitoes	
Sheep pox Goat pox	Poxviridae virus Fatal in young	widespread skin eruption on the m of wool or lon		direct contact	live attenuated vaccines  Immunity 1 Year
Orf "contagious pustular dermatitis" sheep and goats	Parapox virus	"scabby mouth" جرب النه skin lesions on the lips and muzzle and nose		direct contact	live attenuated vaccines Immunity 1 Year

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment	
Rift Valley fever (RVF)	Phlebo virus of the <b>Bunya virus</b>	high MR newborn animals –wide spread		<b>Mosquitoes</b> son at Summer	live-attenuated vaccine immunity for	
"hemorrhagic fever" P.M Hemorhage to all organs	Affect liver maily P.M necrotic hepatitis  RVF characterized by ? Sypmtoms	abortion in older animals – Fever - hemorrhagic diarrhea "bloody" nasal discharge - lacrimation	Transmit to human by ? contact with blood or body fluids or tissues of infected animals in slaughter house		3 years  Antibiotic + antiinflamatory+ liver tonics	
Blue tongue disease  Esp in sheep	Orbivirus, of the Reoviridae High MR MB	high fever - excessive salivation - swelling of the face and tongue - cyanosis of the tongue		Culicoides	live attenuated vaccines	
African horse sickness (AHS)	Orbivirus, of the Reoviridae  High MR MB	high fever - *Pulmonary form: caugh *Cardiac form: Conjunctivitis		* Culicoides *ticks such as Hyalomma and Rhipicephalus	live attenuated vaccines	
Bovine Ephemoral fever "three days sickness"	Rhabdo virus			Arthropod		

Disease	Cause	Symptoms	Diagnos	Transmition
Infectious bovine rhinotracheitis (IBR) Infectious pustular vulvovaginitis (IPV) Infectious pustular balanoposthitis (IPB)  Red nose	(BHV-1) Bovine Herpes virus type 1	1 - Respiratory form: Rhinitis – laryngitis – tracheitis Red nose – fever 42c – discharge – mouth breathing – 2- Encephalitic form: Corneal opacity – lacrimation – conjunctivitis – lymphomonocytic leptomeningitis – ataxia 3- Genital form: Latency – erosion in vulva and vagina – ulcer in prepuce and penis – Diarrhea 4- Abortion form: Late abortion	Aerosol – venereal – transplacental – nasal exudate – semen P.M *Congestion of trachea mucosa *pus at upper respiratory t. and on vaginal mucosa and on prepuce, penis *L.N of neck , throat swollen	Antibiotic + antiseptic Live attenuated vaccine Inactivated vaccine
Malignant catarrhal fever (MCF)  Eye ring	(AHV-1) Alcelaphine Herpes virus 1 and (OHV-2) Ovine Herpes virus 2  In old animals	Fever – Enlarged L.N  corneal opacity start at the limbus and progress toward the center of the cornea causing blindness – nasal and ocular discharge – diarrhea.  Mouth lesion _ black diarrhea	close contact with sheep or goats during lambing	No treatment Hopeless
Bovine viral diarrhea (BVD)	BVD Virus  In young animals	Fever – Enlarged L.N  Corneal opacity start fom center to limbus - nasal and ocular discharge – diarrhea.  Salivation	*Flies *uterine discharge	No treatment Infected calves should be culled to prevent the spread of BVD
Middle East respiratory syndrome	Coronavirus In camels	nasal and lachrymal discharge, coughing, sneezing, fever and loss of appetite	camels to humans	
Chronic alveolar emphysema  "pneumonia emphysema"	In horses only	expiratory dyspnea, cough and lack of endurance to exercise – pneumonia - abscess		Bronchodilator like the aminophylline + Corticosteroid

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Babesia [ Red water fever ] Tick fever	Intraerythrocytic protozoan parasit	Fever > 41 – HG urea Anemia – jaundice - +respiration rate P.M enlarged gall bladder and spleen and liver	*Microscop ex. Of Geimsa st.or leishman st. for blood *Eliza – PCR	Tick Rhipicephalus spp	-Imidocarb probionate [ Imizol ]  -diminazine aceturate [ Berenil ]
Theileria	Intraerythrocytic leukocytic parasit	Fever >41 – corneal opacity Enlarged L.N – black diarrhea P.M enlarged L.N – pulmonary odema	*Microscop ex. Of <b>Geimsa st.or</b> <b>leishman st.</b> for blood *Eliza – PCR	Tick	Buparvaquone [ Butalex ] + Oxytetracycl لمنع انقسام الطفيل في بداية المرض
Anaplasma [Gall sickness]	-ve Bacteria	Fever not exceed 40 – anemia – jaundice – no hg urea P.M enlarged gall bladder and spleen - jaundice	Eliza – PCR	Ixodes tick	Imidocarbe probionate [ Imizol ] +Oxytetracyclin
Trypanosoma [ Surra dis ] Tsetse sleeping sickness	Protozoan parasit	Intermittent fever – dullness – high heart rate – brisket and leg and abdomen odema – anemia – jaundice	Microscop ex. Of Geimsa st. for blood	Tsetse – flies " Stomoxys – tabonids "	Quinapiramine sulphate Or Cymelrsan Or diminazine aceturate
Horse babesia, Equine piroplasmosis, Biliary fever	Theileria equi And babesia caballi			By ixodid ticks	Imidocarb diproprionate

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Babesia	Intraerythrocytic	Fever > 41 -	*Microscop ex.	Tick	-Imidocarb
[ Red water fever ]	protozoan parasit	HG urea	Of <b>Geimsa</b>	Rhipicephalus spp	probionate
Tick fever		Anemia – jaundice -	st.or leishman		[ Imizol ]
		+respiration rate	st. for blood		
			*Eliza – PCR		-diminazine
		P.M enlarged gall			aceturate
		bladder and spleen			
		and liver			
Hypophosphatemia	Nutritional def.	*No fever – no off			phosphorus
	low phosphorus in	food			
	blood circulation	* HG urea			
Leptospira	Spirochaete	HG urea –	Eliza pcr	Food water	Streptomycin or
	* * * * * * * * * * * * * * * * * * * *	Bloody milk - fever –		contaminated	tetracyclin or
	لا تتواجد في كرات الدم	abortion – stillbirth		with rodent urea	penicillin +
					فوسفور + فلونكسين
Clostridia	Clostridium	HG uria			*Penicillin
	haemolyticum	Fever -			+
	II' 1 MD	Depression - anemia			*Flunoxine
	High MR	– jaundice			

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Schistosomiasis bilharziasis [ snail fever ]	Blood flukes  Adult in live in messentric and hepatic vein and Eggs in intestine or liver or U.B	Loss appetite – weight loss – lethargy – diarrhea – melena "stool becom dark"- nasal schistsoma cause coli flower growth	*Microscop ex. Of Stool or urine for eggs – *blood test for adult	Schis eggs to fresh water to hatch larvae to snail to cercaria to pnetrate skin to blood v. to intestine or stool or liver	Praziquantel
Fasciola	Trematode Liver flukes	bottle-jaw – weakness – anemia – green diarrhea – loss appetite – hair loss	*Microscop ex. Of Stool using petri dish then deposition of eggs under micrscope *blood test	From bile duct of liver to eggs in fresh water to hatch miracidium to snail to cercaria to ingest aquatic plants	Triclabendazole Or Nitroxynil Or Clorsulon For adult liver flukes Give liver tonic first after improvement then start
Hydatid cyst Hydatid dis. Final definitive host : Dog	"Tapeworm" Echinococcus in dog *Small intestine adult worm dog	*if go liver : aboominal pain - jaundice – anemia - weight loss *if go lung : cough	ultrasound	Small intestine of dog to eggs in feaces to plants ingested by cattle or human to liver or lung	Ivermectin  Surgical removal of cyst or inject saliva into cyst
Intermediate host : cattle or human	*liver larvae in sheep *lung larvae in cattle				
Mange	contagious skin disease caused by 3 mites.	Itching – scaly formation	*washing by water & soap *spary or wash by Butox or * sulfer ointm or moxidecti * Ivermectin *treatment Re	n oint for horse	
Thelazia caused by 3 types	Round Eye worm Adult live in eyelids, lacrimal glands, eye	watery eyeslei		Mucsa fly and diptera fly	ivermectin drops into the conjunctival sac
Oxyuris equi	Pinworms the infective stage is the embryonated egg	Tail rubbing and puritus فرك الذيل وحكة	scotch tape test examination of a sample fro identify pinworms and pinw	om the skin around the anus to vorm eggs	albendazole
Verminous bronchitis Parasitic bronchitis	Lung worm Dictyocaulus	Persistent cough	3 Species		Albendazole + ivermectin
Ring worm	Fungus Trichophyton verrucosum	itchy, red, circular rash طفح جلدي دائري أحمر مثير للحكة			Benzoic acid or sulfer ointment
Myiasis	Screw worm (maggots)	Under skin of nasal and horn		Break of horn	Ivermectin
Demodicosis	parasitic mites live within the hair f	follicles of all dogs		Amitraz insecticide agent	
Equine strongylosis grazing horses	nematode strongyles		Diagnosed by <b>floating test</b> for	larvae and adult parasites in the in	ntestinal lumen.
Sheep Nose Bot		opurlant nasal discharge tinged with bloo le larvae	d due to hemorrhages produc	eed by the hooks Ivermectin	

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Milk fever postparturient Hypocalcaemia parturient pariesis مثل الولادة more commonly seen in older animals dairy cows and in milking goats.	low blood calcium when demand for calcium for colostrum and milk production exceeds the body's ability to mobilize calcium	Ataxia – hyper sensitivity - tremors - ear twitching if not treat then sternal recumbency - Tachycardia – dull – dry muzzle -cold extremities- head into flank - Lateral recumbency – coma - death	Prevention:  *avoiding over-fatten *feeding hay before c *Clover pasture *Vitamin D help absorkeeping calcium intak before calving symptoms usually pro	oraly calcium salt + calcium borogluconate I/V cal-D-mag If the cow is lying 'flat out' then immediate intravenous therapy is required to avoid death.	
Ketosis  Hypoglycemia Acetonaemia  Pregnancy toxemia "pregnancy disease"     "twin lamb disease" Lambing paralysis  early lactation in dairy cows and sheep and goats	low blood glucose high blood ketone bodies When energy demand for milk production exceed energy intake	Reduced milk production Weight loss Reduced appetite - off food Acetone smell of breath - Fever excess salivation, licking, agression	Prevention:  *High diet of carbohy *use of sodium propic make higher blood su, ketone bodies and hig *Monensin # we give proplyne gl gluconeogenesis and bodies  Ketones can be diagn	Orally: Propylene glycol (Triglyceride) I/V Dextros50% S/C: Neostigmine to improve muscle strength I/M: Corticosteriod dexamethson Induction of partirution	
			Diagnosis of ketosis: 1-Found in early lactation 2-clinical signs as mention above 3-test kit based on presence of acetone in urine 4-Keto-Test is a simple milk-dip test that changes ketone bodies 5- blood ketone meter 6-diffrencial diagnosis from abomasal displacement metritis – rabies and other CNS diseases		·

Disease	Cause	Symptoms	Diagnos	Trai	nsmition	Treatment
	lack of vitamin A in the diet,	Night blindness -				Vitamin AD3
Vitamin A	or inhibition of absorption	Xerophthalmia -weak				injection
deficiency	from	newborn - Reduce feed				
	the digestive tract.	intake- infertilty				
	inadequate exposure to	heart disease –	Rickets due to rec	duction of Ca	alcium and	Vitamin D daily
Vitamin D	sunlight, inefficient	bone disorders such as	phospho	or absorption	n	
deficiency	production in the skin	osteomalacia (softening of				
		bones) and rickets (bone				
		deformities)				
	inadequate dietary intake	white muscle disease - nerve	e and muscle damage			
Vitamin E	Fresh grass and grass silage	that results in loss of feeling				
deficiency		muscle weak	rness			
white muscle disease	اعتلال عضلي	Stiffness – arched back –				Administration of
"stiff lamb disease"	due to deficiency of selenium	Friable heart –				E.Selenium I/M or S/C
	or vitamin E, or both	white chalky plaques in left ve				
*congenital form : affects cardiac		حات طباشيرية بيضاء في البطين الأيسر				
muscle		Death due to myodegeneratio	n			
*delayed form :						
affect skeletal muscle.						
	reduced production by	Star -gazing – head turned				injecte B1 supplement
B1/Thiamine	rumen microbes	over the back - Recmbency -				should return to full
Deficiency		Rigid legs – Blindness –				health within 24 hours.
polioencephalomalacia (PEM)		Death				
B2		Curled toe paralysis in chicks	~		oluble vitamins ch	
Deficiency		edema of the mouth	n and throat			in rapidly cures the
"Riboflavin deficiency"		de			1	
B6		inflammation of the skin (dermatitis)				vitamin B <sub>6</sub> supplements
Deficiency						
Vit K Deficiency	Haemorrhaging (Generalized)	is usually due to a relative				
	vitamin k deficiency.					

Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
		*Loss of pigment hair			Copper methionate
Copper (Cu)		*white hair around eye (glass like)			+
deficiency		*steely wool syndrome			Vit B12
		*sway back disease			
		*lameness			
		*death of young			
		*falling disease			
		*Thyroid enlargement (goitre)			iodized salt
lodine		*stillborn			
deficiency		*alopecia			
		*weakness			
zinc	*excessive calcium	hair loss – eating wool -	*decrease of Phosphate	e Alkaline ALP which	zinc sulphate
deficiency	*low concentration of	growth retardation -	absorp Phosphorus Lea	d to low Phosphorus	
"Parakeratosis"	essential fatty acids	delayed sexual maturation -			
"wool eating disease"		eye and skin lesions			
مرض أكل الصوف					
	*feeding whole milk without	anemia in calves –			Blood transfusion –
Iron	iron	Decreased growth rate -			Iron gluconate or sulpha
Deficiency	*bleeding	Weakness - Pale skin - Rapid			such antoplex
	*Blood parasites	breathing - Depression			And Vit B12
	*Some plants	severe inflammation of the		Access to shade at	corticosteroid –
Photosensitization	*liver damage	skin with depigmentation		daylight -	antihistamine –
"Phototoxins"	*some drugs	and ulceration		removing the source of	panthenol cream –
	*phenothiazine			toxin	antibiotic_AD3
	Anemia is a main cause of a	Emaciation - poor appetite -		Cobalt help absorb and	Vitamin B12 injection
Vitamin B-12 deficiency &	cobalt and vitamin B-12	anaemia and de-creased milk		use of vitamin B12 in the	
Cobalt deficiency	deficiency	production		body	
Grass tetany	Low blood magnesium			*calcium and magnesium so	olution
				Cal-D-Mag	
				*magnesium sulphate adde	d to feed

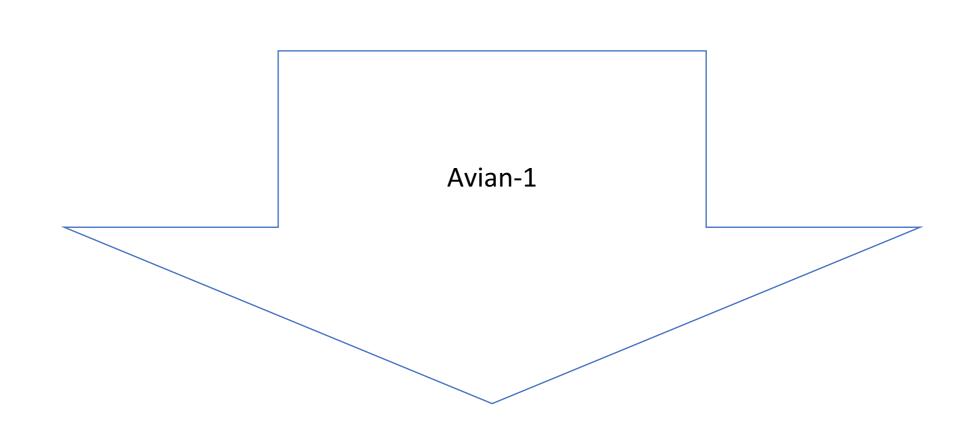
Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
		*cutaneous	Blood and	sand fly	*Meglumine
Leishmaniosis	Leishmania	leishmaniasis,	urine tests		antimoniate
	<u>donovani</u>	skin ulcer		<b>Definitive host</b>	with antibiotic
		*visceral		Human	
	Protozoan parasit	leishmaniasis,		Intermediate	
	found in dogs and	'black fever' fatal		host	
	rodents	Fever - anemia		Sandfly	
		enlarged liver and		Reservoir host	
		spleen		Dog	
		a head tilt down	ELIZA	contaminated	penecillin at
Listeriosis	Listeria	– circling -		food by Listeria	high doses with
'Circling Disease'	monocytogenes	paralysis on one		monocytogenes	gentamicin
		side of the face -			
	affect humans and	abortion and			
	domesticated	stillbirth.			
	animals				
	1 07	Sheep rotate in			
Coenurosis	larvae of Taenia	circles around its			
Coenurus cerebralisl	multiceps in	position			
	intestine of dog				

Disease	Cause	Symptoms	Diagnos	Transmition
Colic in horse	gas, impaction, grain overload, sand in	gestion, and parasite infection.	*(NSAIDs) such as flunixin *Buscopan relax GIT muscle *Laxatives as paraffin oil *Fluid Therapy *use nasogastric (stomach) tube	e to evacuate it
laminitis in horse حمى الحافر أو (الحمرة)	Diseases with inflammation  certain types of colic diarrhoea retained placenta severe pneumon Hormonal diseases *Cushing's disease: abnormality in the pithirst and appetite من العطش والشهية الشديد Mechanical overload High intake of soluble carbohydrates (s تتاول كعيات كبيرة من الكربوهيدرات القابلة الذوبان Stress: change in environment or travell Obesity: overfeed the horse	tuitary gland result from excessive پعائی sugars and starch) ling	*(NSAIDs) such as flunixin *Anti histamine *Acepromazine to increase the l *ice to cool the feet *Foot support to limit movemer pain of the horse. *Box rest with dietary changes	blood supply to the feet at of the pedal bone and to reduce the
Indications for rumenotomy	allows a surgeon direct access to the rumen, allowing for removal of ingested	traumatic reticuloperitonitis - eso	phageal obstruction - foreign body	ingestion (impaction) – plant toxicity
Hard pad disease	Canine distemper in puppies is fatal	puppies with severe symptoms us Adult dogs can recover from it	ually die	
Rectal Tenesmus	unable to empty your bowel after you have already defecated	diarrhea with curved shape		سائل معد لحقنة شرجية Enema
Ionophore antibiotic  Monensin -Salinomycin  Pleuromutilin antibiotic	added to cattle and chicken feed to <b>prome</b> used in treatment of dysentery and p	ote growth and to prevent coccidial in one umonia and mycoplasma infections		ncreasing propionic acid
Tiamulin	in pigs and poultry. Best way orally			
Magnesium sulphate Epsom salt English salt	MgSO4 2- 3-	Purgative orally: as a laxative to trea muscle relaxant – CNS depressant I/ Hypomagnesemia S/C: 20% with cal reduce inflammation locally on swel	'M I/V: to treat tetanus lcium to help calcium absorption	
Furazolidone "Antibacterial antiprotozoal" broad spectrum	Gram positive Clostridium perfringens – Corynebacteriu Streptococci – Staphylococci Gram negative Escherichia coli – Salmonella – Shigella Protozoa Giardia - Eimeria - Histomonas meleagric	77 0		Aslo treat histoplasmosis in pets

Disease	Cause	Description	Diagnosis		Diffirencial	Treatment
Free gas tympany rumen on the left side	Physical obstruction of esophagus an excessive volume of gas in the rumen	Gas in nature	Passing a stom will distinguish gas and frothy	between	If it's gassy bloat a stomach tube passed into the rumen will allow the gas build-up to escape through the tube.	Passing a stomach tube is the best treatment for gassy bloat.
Frothy tympany	Occurs after ingests legumes or grass rich in protein or a diet high in concentrat	Foam gas with bubbles Distension of left flank and doughy pa	lpation		No such gas is seen in frothy bloat.	* turpentine oil for tympany  *Dimethicone For bloat
Ruminal indigestion	excessive feeding of grain results in ru out put	and increase fecal ضعف	Low appetite -	- constipation	or diarrhea – rumenal atony	saline via a stomach tube
Impaction	the accumulation of the indigestible materials in the rumen such plastic	recumbency - death *I/V Na bicark			omy and emptying rumen arbonate for lactic acidosis ing in sever cases	
Udder oedema	Physiolgical disorder before or after parturution	No fever – no pain – no hotness – milk the same shape – increase size of udder – healthy udder tissue			Mention the difference between udder oedema and mastitis?	*Diuretics  *Corticosteroid if not pregnant  *Hotcompress
Mastitis	Bacterial or Fungal infection due to contaminated tool	Fever – pain – hotness – Milk may be change with blood or pus	- Inflammed			*Antibiotic *anti inflammatory *ointment
Mastitis	Staphylococcus aureus and Mycoplasmas	1-Subclinical mastitis: increase in somatic cell counts in the milk. ( milk appear normal ) 2- Clinical mastitis: mammary gland inflammation - milk clots. 3- Acute mastitis: (fever, depression, loss of appetite) - The udder is swollen and painful. 4-Chronic mastitis: Milk contain clots or shreds 5-Acute gangrenous mastitis: Toxaemia - milk become watery and bloody - mammary gland is necrotic		Mode of transmission:  1-Contagious mastitis: during the milking process  2-Environmental infections: bacteria acquired from environment of the cow.	intramammary infusion of an ointment or I/M or I/V of antibiotics, such as streptomycin, ampicillin, tylosin penicillin, and tetracycline	
Traumatic Pericarditis	ingestion of wire or piece of metal into	the rumen of the cow.				
Femur Femoral fractures	1-in calves during forced extraction for 2-adult cattle after falling during moun have a <b>Grave prognosis</b> because of hig	ting or on slippery flooring				Mention prognosis ?

Disease	Cause	Symptoms		Diagnos	Transmition	Treatment
Quinapyramine toxicity	trembling, sweating and sali	d salivation - increase in respiration and heart rate -				Atropine +
	death					liver tonic
Sulfonamide toxicity in poultry	Haemorrhage on leg, breast	, ms, and all abdominal -	pale bone	marrow –		
	blood slow to clots – low eg	g production				Vit K
		Blindness – frothy saliva	غوة في الفمa	ر.	Orally magnesium sulph	nate
Lead poisoning		Loss of appetite - Muse	cle tremo	rs	I/M vitamin B1	
					Rumentomy	
Strychnine poisoning in dogs		Stiff muscles and Limb	- difficult	breathing -	Diazepam is sedative,	muscle relaxant in dogs
		arched back				
Diazinon toxicity	acute pancreatitis in dogs -	watery eyes, runny nose,	loss of ap	petite,		mazine (anti emetic) کمانع
in dogs or cattle	coughing, urination, diarrhe	a, and vomiting.			وايضا لتهدنة الكلاب من اجل	للقيء، وكمهدئ عصبي قوي
"Organophosphate"					purgation of dog نطهير هم	3
					3-washing with soap &	water
Diazepam toxicity	Diazepam overdose	Coma - Weakness - Vo	miting - F	Relaxed		Flumazenil
(Benzodiazepines)		muscles				
	Mould growth in the feed	Decrease body weight -		Anti fungal ( ar	iti mycotic ) :	
Mucataviancia	Molds grow on cool	palness		calcium propio	onate inhibit mould growth d storage to longer food period without fungal growth	
Mycotoxicosis	weather in food and			so used in food		
3 fungi	produce toxins					
Aflatoxicosis by falvus in poultry	Affect poultry growth – card	cinogenesis – mutagenesis	s – immun	e suppression		Aluminium silicate
Hydrocyanic acid poisoning					Sodium thiosulfate (STS	5)
Ionophore toxicity	Leg weakness - Extended b	ack ward				
sodium chloride toxicity	Excessive salt (sodium	subcutaneous edema a	and ascite	s and		
salt poisoning	chloride, NaCl) intake	hydropericardium				
organophosphorus poisoning (OPS)	Contaminated food or	Tearing - excess salivati		-		مانع (anti emetic) کمانع
causing	water with	sweating - cyanosis - m	ns tremors	;		قيء، وكمهدئ عصبي قوي وايضا لذ
Choline esterase inhibition	Organophosphates				purgation of dog	
	(OPs).as insetcide				3-washing with soap &	water
	Uses :				Large doses atropin to t	reat some poisonings
Atropine	Organophosphate toxicity	- decrease saliva and bron	nchial secr	etion during	20.80 00000 0010 0011	cat coc polotimi85
"Anticholinergic"	surgery -			8	Atropin antidote : physical	ostigmine or pilocarpine
I/V or I/M or	uveitis - Bradyc التهاب القرحية			opin unitidote . pirys	osagic or photorphic	
Eve drops	Diarrhea and with imizole to			Contraindicated in thyr	ntoxicosis	
Lycurops	Side effect : dry mouth - lar	rge pupils - urinary retenti	احتباس ion	-	Contramulated in thy	O COMICO 313
	constipation - fast heart rate					
	م وضوح الرؤية blurred vision-					
	Ç,				10.040	
Cyanide poisoning					Vit B12	

Disease	Species	Comment			
	B.abortus B.meletensis	Human cattle camel Sheep goat camel			
Brucella	B.ovis	Sheep		Fistulous withers caused by B.abortus	
- doona	B.canis	Dog			
	B.suis	Pig			
Mycobacteria	M.tuborculosis M.bovis	Human cow only other subcline	cal inf.	Other animals have resistance from	
	M.avium	Cow Bird		M.tuborculosis	
Pasteurella	P. multocida	Ditte			
rasteurella	P. Mannheimia haemolytica				
	M. capricolum	Goats			
	Contagious caprine pleuropneumonia (CCPP)				
	M. bovis				
	Contagious bovine pleuropneumonia (CBPP)				
Mycoplasma		Cattle			
	M.gallisepticum (MG)				
	meleagridis				
	synoviae				
	Constinue	Chickens - Turkey - birds			
	C.septicum	Braxi - malignant odema - false			
	C.chauvae	Blackleg disease			
	C.novyii	Black disease			
	Chievyn	Black disease Black_big head			
		- "			
	C.botulinum	Trom one manalizais	T		
		rremors - pararysis	Tremors - paralysis		
Clostredia	C.perfringes				
		Pulpy kidneylamb dysentry _	_Enterotoxemia	wall.	
	C.perfringes type c				
	C.perringes type c	Struck			
	C.tetani	1 etanus in human cause (MS ri	gidity - prolapsed eyelid - lockjaw		
	C.haemolyticum	Bacterial red water bacillary hg	urea		
	C.sordellii	Sudden death syndrome			
	B.bovis	odddii ddii syndione			
babesia	B.bigmenia				
Theileria	T.annulata				
	T.parva				
Anaplasma	A.marginal A.centrale				
	T. congolense	All animal			
Гrypanosoma	T. vivax	All animal			
	T. evansi S.hematobium	Camel Urinary bladder			
schistosoma	S. mansoni	Intestine 'colon'			
ornoto coma	S. japanicum	Japan			
Fasciola	F. hepatica				
	F. gigantica M. Sarcoptes scabiei				
Mange caused by	M. Sarcoptes scablel M. Demodex				
B Mites	M. Chorioptic				
Floring:	T. callipaeda	dogs and cats			
Thelazia	T. lacrymalis T. rhodesi	horse cattle			
Lung worm	D. viviparous	Cattle			
Dictyocaulus	D. filarial	Sheep and goat			
	D. arnfieldi	Horse			
	Aflatoxin produced by fungi	Aspergillus flavus			
	Ochratoxicosis produced by fungi	Penicillium	carcinogenesis – mutage	enesis - immune suppression	
Mycotoxins	Fusario toxin produced by fungi				
	Tushi to to in produced by rungi	Fusarium			
	E. acervulina				
	E. tenella				
Eimeria	E. maxima			Mention 5 types of Eimeria	
	E. mitis E. necatrix				
	L. HCCaulx	Ch Ry accumulation of blood a	Ch. By accumulation of blood and tissue debris		

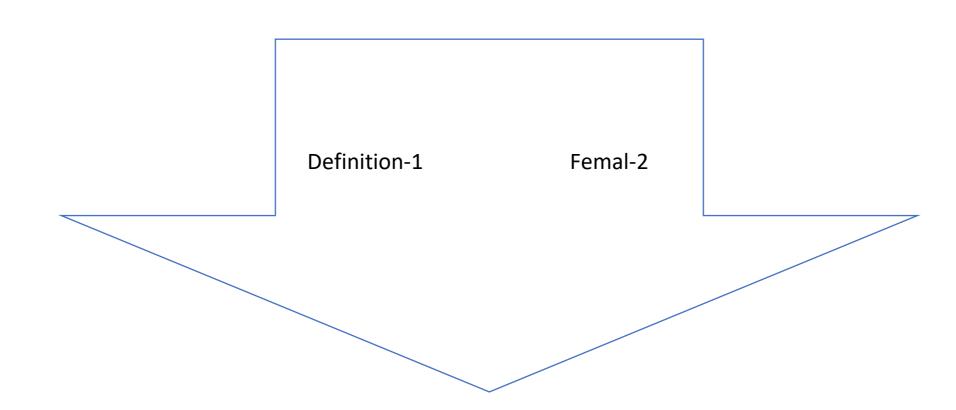


Disease	Cause	Symptoms	Transmition		Treatment	
Fowl cholera  "avian hemorrhagic septicaemia"	Pasteurella multocida  High MR	Green diarrhea - Lameness - joint enlargement - swollen wattles Fecal dropping cyanosis head		I/M tetracycline		
Pullorum disease "bacillary white diarrhea"	Salmonella pullorum  High MR	whitish fecal pasting around the vent لصق البراز الأبيض حول فتحة التهوية drop in egg production	whitish fecal pasting around the vent لصق البراز الأبيض حول فتحة Egg transmitted disease- contact with inf hirds		I/M tetracycline	
Fowl typhoid (FT)	Salmonella Gallinarum					
Colibacillosis "coli granuloma"	Escherichia coli	Lameness - coligranulomas in liver a P.M airsacculitis – pericarditis - peri swollen head	У			
Mycoplasma					Tylosin	
Erysipelas	common disease in turkeys but is rare in the fowl.	Arthritis – yellowish green diarrhea				
Bumblefoot "plantar pododermatitis"	Staphylococcus aureus	swelling of the foot pad – arthritis and osteomyelitis مالتهاب المفاصل والتهاب العظم				
Infections Coryza	Haemophilus paragallinarum	Swollen head – nasal discharge - lacrimation			Doxy or sulpha trithoprime	
Snuffles in rabbits شخر بصوت مسموع (Pasteurellosis)	Pasteurella multocida	nasal discharge – rubbing nose in cage – difficult  breathing - head tilting - skin sores اقتحات الجلد - death		floxacin ented by ventilation clean place		
Avian chlamydiosis (AC) (Psittacosis, Ornithosis, Parrot Fever) الببغيات ، الطيور حمى الببغاء	Chlamydia psittaci P.M: enlarged liver – spleen - & thickened air sac broncho pneumonia	Anorexia – drop in egg – diarrhea – ocular and nasal discharge – conjunctivitis – sinusitis – fever - ruffled feathers منكوش Weakness – loss appetite – weight loss.  Transmission: Fecal oral route – inhalation – vertical transmission		In human cause pneumonia No vaccine for poultry Traetment: tetracyclin		
Paratyphoid			rodents			
candidiasis in pigeons	Candida fungus	Caseous mass in the pharyngeal region			fluconazole	

Disease	Cause	Symptoms	Transmition	Treatment	
Chicken Infectious Anemia		Bone marrow is pale - thyn	ymus is atrophied		
Egg drop syndrome	EDS Virus	abnormal eggs	Egg transmitted	d disease	
Chicken anemia virus (CAV)		Latent infection العدوى الكامنة			
Avian pneumovirus			Carrier the virus after recovery		
Derzsy disease Goose hepatitis	Goose parvo virus	highly contagious and fatal disease of gosli By short beaks and dwarfism syndrome (SBD			
Vitamin A deficiency	Vitamin A deficiency	white diphtheritic membrane in pharynx e  urate deposition in kidney and urater - k growth rate	vit A		
Vitamin E Deficiency "Avian Encephalomalacia"	Vitamin E Deficiency	*Encephalomalacia :(crazy chicken disease *muscular dystrophy : white or yellowish *Exudative diathesis : skin of legs cyanotic	Vitamin E And or selenium		
Curly toe paralysis	Riboflavin (vit B2) deficiency		riboflavin + mul	tivitamins	
Perosis "chondrodystrophy"	manganese (Mn) deficiency in diet or choline or nicotic acid or folic acid.	enlarged hock joints - tendon slips to one side			
fatty liver syndrome	High feed intake esp. caged layers – negative energy balance – hepatic insufficency	Increase in body weight - Increase of viscera and abdominal fat	Changing the balance of carbohydrates and fat i diet + selenium		
atty Liver and Kidney Syndrome	biotin deficiency				
Articular gout النقرس المفصلي visceral gout	Due to damage of kidney	deposition of urate crystals in joint ترسب بلورات اليورات في المفصل			

Disease	Cause	Symptoms	Transmition	Treatment
Avian influenza	avian influenza Type A virus	Nervous sign  Like Orthomyxoviridae	airborne transmission or indirectly, through faecal contamination of material or feathers or feed	
Infectious Laryngotracheitis (ILT)	Herpesvirus P.M haemorrhagic tracheitis with blood clots	Rhiniti - Swollen head - difficult breath - Haemorrhagic tracheal exudate	respiratory droplets	
Infectious bronchitis disease (IBD) Gumboro disease In chickens less than 2 months	Bi ma virus P.M Enlarged bursa of fabricous	trembling, ruffled feathers, poor appetite, dehydration, huddling, vent pecking, and depression	horizontally by aerosol – contaminated water and feed and equipment	Control: by vaccination live-attenuated vaccine day 1 as follow Biosecurity protocols
Infectious Bronchitis (IB)	Corona virus	misshapen shelled respiratory signs, decreased egg production and egg quality eggs		
Newcastle disease (ND)	para-myxo virus  Gross lesion : Viscerotropic Velogenic is hemorrhagic ulcer in intestinal mucosa	nervous signs such as paralysis - convulsions Conjunctivitis	droppings and secretions from the nose	Hitchner B1 for day 1
Marek's disease Neoplastic disease امراض مرطانیة	Herpesvirus  Highly contagious  affects chickens younger than 4 months	Nodules on (cutaneous) + (nervous) (ocular) + (visceral) P.M Thickening of nerve trunks and loss of striation. fully productive infection with mareks disease virus occur only in B lymphocytes	Marek's vaccine preserved atroom temperature	
Lymphoid leucosis "Visceral Lymphoma" Neoplastic disease امراض سرطانية	Retrovirus adult chickens, 4 months of age or older.	Tumors in the liver Erythroid leukosis Myeloid leukosis Avian Osteopetrosis	Egg transmitted disease Horizental + Vertical transmission	
Avian encephalomyelitis	Tremo virus of Picornaviridae	tremors of the head and neck هزات	Egg transmitted disease - Vertical transmission	
Fowl pox "dry pox" (skin) form "wet pox" (diphtheritic) form	avian pox virus	Yellow plug difficulty removed leave bleeding Lesion on feather, vent –emaciation, difficulty in swallowing and breathing	mosquitoes	Fowl Pox Vaccine used for chickens and turkey

Disease	Cause	Symptoms	Transmition	Treatment
Trichomoniasis in pigeons  (pigeon canker)	Trichomonas gallinae	Yellow plug difficulty removed no leave bleeding – caseous mass in the pharyngeal region of pigeon	Drug of choice  Metronidazole antibiotic	(Flagyl)
Histomoniasis	Histomonas meleagridis	Transmission by <b>roundworm</b>		For Histomoniasis
"Blackhead disease"  "Entero hepatitis"	protozoa	Heterakis gallinarumprotozoa live ir move to the bird's intestines where the worm eats the protozoa then roundw infected with the protozoa then bird sh infected roundworm eggs in its droppin	Dimetridazole	
Infective stage of histomoniasis eggs of roundworm Heterakis gallinarum in dropping	Turkey more susceptible than chicken	infected roundworm eggs in its droppings.		For roundworm  levamisole
Scaly Log Mitos	Knemidocoptes Mutans		Dip the birds up to the sh	
Scaly Leg Mites	Eimeria	Thiamine antagonise Amprolium	Or ivermectin inj. Or oral Amprolium used to preve Sulfa	nt and treat intestinal coccidiosis -
Coccidia	Protozoan parasite			



Tumor..abnormal mass of tissue that formed when cell grow and divide more than they should

Tumors may be benign (not cancer) or malignant (cancer).

tentative diagnosis a diagnosis which is not confirmed

phimosis a صنوق غطاء واس الفضوية phimosis منوق غطاء واس الفضوية phimosis منوق غطاء واس الفضوية foreskin is too tight to be pulled back over the head of the penis withdrawal period ...the time required for the body to eliminate the drug from it and become safe for human consumption

Case history... a record of history, environment, and relevant details of a case for use in analysis

Zoonotic risk .... infectious disease caused by an infectious agent, such as a bacterium, virus, parasite that has jumped from an animal to a human.

Infectious diseases are disorders caused by organisms — such as bacteria, viruses, fungi or parasites

Biosecurity procedures taken to prevent or minimize entry of disease into farm or out of farm

Biosecurity in poultry farms:

Keep rodents and other animals away - Keep your coop and runs clean Keep food and water disease free - Limit visitors and visits - Proper poultry feed.

Proper vaccination

precaution of burner in poultry farms in summer ...

Ventilators - Water temperature - Exchange the drinker water frequently - Maintenance of optimum air temperature

Disinfection of cars, tools, room, people, water

Eradication of \*animal, rats, rodents, birds, insects, visitors to farm

\*Decrease transport from farm to farm \*Daily disinfectant of farm

\*Keep areas around farm clean \*farm should be far from other farms

Mechanism of drug action

the specific biochemical interaction which a drug produces its pharmacological effect.

includes the drug binds to specific molecular targets, such as an enzyme or receptor. Animal welfare:

Including proper housing and management and disease prevention and treatment and care Inguinal hernia

Protrusion of abdominal cavity through inguinal canal in small animal TTT surgically

Drug additive :

Compound such vitamin or preservative which added to other ingredient to improve the external  ${\bf Quarantine}$  :

Strict isolation of infected animal to prevent the spread of disease

Epidural anesthesia:

Injection of anesthesia into the lumber in sapce between spinal cord and the dura which eliminate sensation from surgery

Rose Bengal test:
Rapid slide agglutination test used for identifying brucellosis antibodies in sera (B.abortus)

Debeaking:

Cut off the upper part of poultry beaks so they do not harm each other chicks

Brucella meletensis:

Affect sheep and goat causing late abortion and still birth treated by oxy and streptomycin long term vaccinated Revl

Abomasum displacement: (True stomach)

Abomasum filled with gas and then raise to the top of abdomen due to calving or abomasum atony treated by casting and rolling animal to it's back

Gonadotropin-releasing hormone	From rypotnaiamus (GnRH) stimulate the anterior pituitary gland to release of (FSH) and (LH)			SH) and (LH)
		*maturation	of ovarian follicle	
Follicle-stimulating hormone (FSH)	made by the anterior pituitary gland	*stimulate e	strogen secretion	
	made by the affector pitolically gland	*stimulate s	permatogensis in male	
		*stimulate o		
Luteinizing hormone (LH)			of corpus luteum	
Eutenizing nomone (E11)	made by the anterior pituitary gland		progesterone secretion	
			estosterone production in male	
Estrogen	produced by Ovarian follicle which regulated by FSH	*Induce estr		
Estradiol (E2)	produced by Ordinarromate Whiterregoldted by 1.311		ent of reproductive system	
		*milk ejection		
Oxytocin	produced by the posterior pituitary gland		n of uterus during parturition	
<u> </u>	,, , , , 3 · ·		terine PGF2α secretion	
Progesterone	1. 11. 6 12 12. 12. 12. 12.		PH release which inhibit ( FSH , LH )	
(P4)	produced by Corpus luteum which regulated by LH		oductive behavior	
			ne pregnancy	
	The state of the s		fect on growing corpus luteum	
Denote alon din E2n (DCE2n)	Indicated for synchronize estrus and pyometra also used in terminate pregnancy	*Open the c		
Prostaglandin F2α (PGF2α) Estrumate or lutalyse	Why note for such and promotes 2		n of the uterus to remove pus	
Estrumate of futaryse	Why pgf2 for synch and pyometra?	*stopping ti *stimulate o	ne production of progesterone	
Destantia bassassa			nilk production	
Prolactin hormone هر مون الحليب	produced by the pituitary gland		gland develop	
summer heat stress (HS)		illallillary	giano develop	
summer sterility	Increase day length and high temperature	Cooling Cov	s and make shading area	
Cystic Ovary Disease		Infertility	is and make snauling area	
	Causes: negative energy balance and high milk producers.	illertility		
"Nymphomania"	(frequent or constant heat) due to cystic ovaries produce large amounts of estrogen			
الشهوة العالية	(irequent or constant heat) due to cystic ovaries produce large amounts or estrogen	Treatment is	s injection of (GnRH) to induce (LH)	
	1-Diet is low in phosphorus	1-	ردة Phosphor with	
Smooth inactive ovary	2-internal parasite	2-	Ivermectin + tonics	
Smooth materie orally	3-hormon	3-	(GnRH) induce (LH) or Estrogen	
	Failure of estrus cycle - absence of estrous signs due to failure of growing of ovarian follicle			
	and causes are :			
	A- Environmental factors: season – lactation – nutrition			
Anestrus	B- persistence of corpus luteum: pregnancy – pyometra – high lactating animal	– early embryonic de	eath	
	C- cystic ovary			200
Pyometra	accumulation of purulent exudate in the uterus due to high exposure to progesterone			PGF <sub>2</sub> α
Corpus luteum	Mass of cells that form on ovary after ovulation and secrete progesterone during pregnancy			
				Oxytocin Inj.
Retained placenta	Hypocalcaemia – low vit E Selenium		itart remove it manualy	or PGF2&
"retained fetal membranes"	Weak uterine atony		After 12h in summer and	+
failure to expel fetal membranes after	Previous uterus surgery		After 24h in winter.	Calcium+
parturition.	Twin – fating – abortion – toxemia			E.selenium
Retained placenta in Mare	can be easily removed because simplicity of it's attachment to uterus	li li	f the placenta is retained 5-6 hours	Small dose of Oxytocin
	1- Fetal cause			i '
	Mummified fetus - over size fetus - abnormal presentation - Twins			
	Abnormal fetus			1-correction pasture and presentation
Don't de	2- Maternal cause			2-cessation section if needed
Dystocia "difficult birth"	Uterine inertia – obstruction or inadequate size of birth canal –			3-fetotomy as in case emphysematous fetus
difficult offth	uterine torsion – incomplete cervical dilution – neoplasm in vagina –			. ,
	low expulsive force			

- Peracute: very short course
- Acute: short course
- Subacute: long course
- Chronic: very long course

Notifiable disease

A disease must be reported to public health authorities at the time it is diagnosed because it cause high economic loss

Such: Anthrax - brucellosis - T.B - FMD

الله Occurance عادثة:

- 1-Spordic: disease which occurs infrequently or irregularly from time to time in isolated places
- 2-Endemic : disease belongs to a particular people or country
- 3-Epidemic: disease that affects a large number of people within a community or region.
- 4-Pandemic: is an epidemic that's spread over multiple countries
- 5-Exotic: disease imported into a country in which they do not otherwise occur

The length of the normal estrous cycle

is 17 days for sheep

and 21 days for goats and cow and mare

and for she camel is 13-40 days

Duration of pregnancy in the

1- Mare: 11 months Camel: 13 months

Cow: 9 months

Bitch: 60 - 65 days

5- Ewe: 5 months

Estrogen before oxytocin is indicated for expulsion of mummified fetus (right)

Why use PGF2 before oxytocin?

First dilute the cervix and then use of oxytocin for contraction of uterus to expel mummified fetus

In cow rectal palpation at 75 days what you can find?

Cotyledons - amniotic vesicle - fetal membrane slip - fetus

To induce abortion in macerated fetus mummified fetus use .. PGF2α and oxytocin

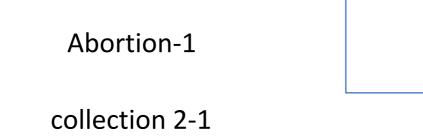
To induce parturition in sheep and goat at end of pregnancy  $\mbox{PGF}2\alpha$  and dexamethasone.

To induce parturition or abortion in horse at end of pregnancy oxytocin

Corpus luteum give PGF2a

Smooth in active ovary or cystic ovary give GnRH or Estrogen

The highest estrogen level in case of ... ovulation



Disease	Cause	Symptoms	Diagnos	Transmition	Treatment
Brucella, Storm abortion Intracellular	Coccobacilli _ve Ziehl nelson	Late abortion - Anemia Weakness of new born Retained placenta - Bull: Orchitis Human: fever- night sweat	*Rose Bengal test *Milk ring test *Eliza pcr	Direct contact with Blood , milk , semen or urine	Test slauter Oxytetracyc Streptomycin Long course
Leptospira	Spirochaete	HG urea – bloody milk - fever – abortion – stillbirth	Eliza pcr	(oral ingestion) Food water contaminated with rodent urea	Streptomycin or tetracyclin or penecillin
Listeriosis 'Circling Disease'	Listeria monocytogenes Affect human	a head tilt down – circling - paralysis on one side of the face - abortion and stillbirth.	Eliza pcr	contaminated food by Listeria monocytogenes	penecillin at high doses with gentamicin
Trichomoniasis	Tritrichomonas fetus	abortion < 5 months - Infertility — Pyometra - retained placenta		(venereal) only	The drug of choice for treatment of Trichomoniasis in animals is Metronidazole antibiotic
Vibrio	Campylobacter fetus	Early abortion - Infertility		(venereal)	
Toxoplasma	Toxoplasma gondii protozoan parasite	focal necrosis of the placenta - early abortion – mummification - stillbirth, and neonatal death	*Ingestion of uncooked meat *ingestion of un washed fruits and vegetables contaminated with cat feces infected by T.gondii		
Chlamydia	Chlamydia psittaci	Intermittent late abortion -		*direct contact  *oral ingestion of the organism	Oxyteracyclin every 5 days for 3 times during gestation
Bovine Virus Diarrhea (BVD)		Early abortion -		aerosol or contact	
Foothill abortion (EBA)		Late abortion		Pajahuello tick	
Infectious Bovine Rhinotracheitis (IBR)	Herpes	Late abortion			
Neospora	protozoan, Neospora caninum	Late abortion		feed contaminated with dog feces.	
Sarcocystis		Late abortion		Infected dogs, cats in their feces	

## Infectious Diseases

Non infectious Diseases:

Nutritional: Deficiency of selenium – starvation

Poisoning

Chemical: pesticide – fertilizer Hormonal: increase estrogen

Most common food poisoning.... salmonella (most danger) - clos. Perfringes , Botulinum - E. coli - campylobacter - listeria and control of the control

Dermatitis.... B6

Morbilli virus... rinder pest (cattle plaque) – PPR (goat plaque) – canine distemper Disease transmission by egg of chicken vertically ... 3 diseases and causative agent transmitted by egg... 3 bacterial disease vertically in poultry ...

Bacterial Salmonella – Mycoplasma – campylobacter

Viral avian encephalomyelitis - Lymphoid leucosis – Viral Arthritis – adeno v. – chicken anemia - Egg drop syndrome

Four viral disease cause locomotor and nervous signs in poultry.... Avian Influenza - para-myxo virus - herpesvirus virus - Eastern Equine Encephalitis virus (EEEV)

three virus causing tumor in poultry...

retroviruses and reticuloendothesiosis viruses (REV) - herpesvirus virus.

Three disease like avian influenza .. ND – ILT - IB

three anticoccidial feed additive... Monensin - narasin - Amprolium

E.Coli - Staphylococcus aureus ... التَهابِ السرة

Arthritis in chickens.. Avian reoviruses - Staphylococcus aureus

Swollen head .... coryza

Types of suture ...

absorbable break down in the body used for deep tissues as vicryl

non-absorbable used in closure of abdominal wall removed after period of time as silk or catqut

Pneumonia...

Bacterial Pasteurella – mycoplasma – Escherichia coli – Staphylococcus aureus

Viral PPR – para influenza – canine distemper

Mycotic Aspergillus spp, candida spp, Cryptococcus neoformans,

Parasitic Dictyocaulus

3 Viral respiratory diseases in poultry (ILT) - (IB) - avian influenza (AI)

laundice

Pre-hepatic Jaundice: increased red blood cell destruction Clostridium haemolyticum – Leptospires – Babesiosis - hypophosphataemia

Hepatic Jaundice: Liver cell damage hepatic lipidosis

Post-hepatic Jaundice: obstruction in the biliary tract gall stones

Transmitted by insect LSD - AHS - blue tongue

In camels, only 3 ruminant stomach chambers are rumen, reticulum, and abomasum.

Persistent dry cough with lower head and extend neck

Moist cough abducted elbow cb

Vaccinated by web method ... Fowl cholera - Avian encephalomyelitis

بول دموي Bloody urine

Babesia - bacillary hg urea - hg septicaemia - hypo phosphorus - cystitis - anthrax - leptospira

Bloody diarrhoea الإسهال الدموي

MCF - RVF - coccidian - worm - abdominal ulcer - rectal palpation injury - haemorrhagic septicaemia

Milk-borne diseases transmitted to human....

Brucella - Campylobacter - E. coli – Listeria – Mycobacterium – paratuberculosis - Salmonella - Staphylococcus aureus

Diseases cause mouth lesion in cattle....

foot-and-mouth disease malignant catarrhal fever Bovine viral diarrhea virus Bluetonque virus

(FMD-MCF-BVD-BT)

Sudden Death caused by ...

Bacterial Salmonella – Anthrax - Clostridia

Other Nitrate and Lead poisoning - Ruminal acidosis - Grass tetany - Bloat

Nervous sign caused by ...

Hypo MG - B1 def - ketosis - lead poisoning - OPT - otitis media - brain abscess - meningitis - coenurus cerebralis (worm in brain need surgery) - oestrus ovis larvae

(big white worm) - rabies – listeria – tetanus – babesia nervous form (hopeless)

Salivation caused by ...
FMD – BVD – rabies – OPT – Sharp teeth – ketosis – foreign body - Blue tongue

Corneal opacity caused by ... Pink eye - theileria - MCF - BVD - vit A def - edema Circling of animal caused by .... Listeriosis – Encephalitis - oestrus ovis larvae

Viral zoonotic disease ....

FMD – ORF – RVF – rabies – west nile virus – Plague

Bacterial zoonotic disease ...

Brucella – salmonella – leptospira – tuberculosis – Listeriosis – anthrax

Protozoal zoonotic disease ...

Toxoplasmosis - neosporosis - sarcocystosis - trypanosomiasis

bird zoonotic diseases ....

avian tuberculosis - erysipelas – histoplasmosis - salmonellosis cryptosporidiosis, campylobacterosis – E.coli

immunosuppression in chickens...

Virus Reovirus and infectious bursal disease virus

Fungi Aflatoxicosis by falvus

What disease causes the most economic loss for dairy farmers

Mastitis - milk fever - retained placenta - lameness - ketosis

Hepatic lesion caused by

Hepatic toxic plant – pasteurellosis - salmonellosis – Anthrax - PPR



Bacteriostatic + Bacteriostatic = ..... additive hactericidal + hactericidal = Additive bactericidal + bacteriostatic - Antagonist because bacteriostatic stop growth of bacteria and prevent killing of it by bactericidal Combined uses of broad with narrow spectrum ones = antagonist Combined uses of amino glycosider for long time .... destroy kidney. penicillin is narrow-spectrum antibiotic tetracycline & chloramphenicol & ampicillin & cephalosporin are broad spectrum antibiotics Gentamycin & penicillin are bacteriocidal Tetracycline is bacteriostatic Penicillin properties: synergism streptomycin and gentamicin ize tetracycline and macrolide and chloramphenicol Its advisable to use peneciilin in infection of .... Anaerobec bacteria penicillin potentiate oxytetracycline (X) Flumazenil is diazepam (benzodiazepine) antagonist Thiamine antagonize action of ... amprolium because amprolium inhibit intestinal absorption of thiamine colistin antagonist with lincomycin A broad spectrum antibiotic acts against both G+ and G- bacteria... Tetracycline - cephalosporin - chloramp A narrow spectrum antibiotic acts against G+ ... Glycopeptide as vancomycin bactericidal: An agent that kills bacteria. bacteriostatic: A drug that prevents bacterial growth and reproduction but does not necessarily kill them. When it is removed from the environment the bacteria start growing again. Antibacterial origin is manufacture as sulfatrithoprim Antibiotic origin from nature as penicillin and tetracyclin and chloramphenicol Antibiotic coccidial is ... Sulfadimidine Tylosin is not used for (contraindicated) .... equine And salinomycin is not used for (contraindicated) .... Camel and Duck and dairy Cow (Toxic) Oxytocin is contraindicated in dystocia due to abnormal presentation (right) Permethrine ... insecticide Insecticide as ... Permethring fumigation by التبخير بواسطة ... formalin Prohibit use In Equine ... Macrolide - lincomycin - clindamycin - ivermectin Prohibit use In Birds .. Pancure Aspirin, also known as acetylsalicylic acid (ASA) side effect is gastric ulcer Diclofenac side effect is gastritis prevent in stomach disease Paracetamol not used in cat. Tiamulin is not used with... ionophorus Combined administration of tianulin and ionophores (monensin or salinomycin) to farm animals lead to intoxication Tiamulin and ionophores is antagonist Tiamulin + chloramphenicol - additive Ivermectin used for ... Eradication of internal and external parasite (except tapeworms) and GIT round worm and mites Clorsulon used with ivermectin for ... Eradication of internal and external parasite and liver fluke Clorsulon used to treat ...immature and adult liver flukes (Fasciola hepatica and Fasciola gigantica) in cattle Dimethicone used in treatment of ...bloat in sheep Diminazine used in treatment of... babseia and trypanosome يتم اختيار نشاط المطهر وفقًا لمعامل الفينول Disinfectant activity is choose according to.. phenol co efficient Drug are poorly absorbed by GIT ... neomycin and streptomycin except.. lincomycin Vitamin important in calcium absorption .. Vit D Vtamin used as anti coccidian... Vit K which is bactericidal ... gentamycin not used to relive pain of stomach .. diclofenac and used safe in ... pregnancy located beneath the diaphragm in the right upper quadrant of the abdominal cavity .. liver diagnostic test to recover the eggs of the equin pinworm ... scotch tape test Fleas not same of ticks not same miter Uses of sulfanomides in laying hens ...in decreased egg production Why sulfanomides are not effective in pus? the sulfonamide or sulphadimidine concentration must be kept high enough to prevent bacterial access to PABA which lead to renal complications. PABA para amino benzoic acid Why sulfanomides antagonized by pus? because presence of PABA in pus Why paracetamol are not given to cat? cats does not have the glucuronyl transferase enzyme which needed to break down paracetamol safely so lead to toxins produced that damage their liver and RBCs Why tylosin not penicillin in treatment of mycoplasma? Mycoplasma lack a cell wall around their cell membranes. This characteristic makes them resistant to antibiotics that target cell wall synthesis (like the beta-lactam antibiotics such penicillin) But tylosine act on protein synthesis make inhibition Why horse more suseptable to closterdia tetany? because of their environment and tendency to suffer injuries. Why horse not give ivermectin? It cause nausea, vomiting, diarrhea low blood pressure ataxia coma and death for horse Why bad prognosis after 12h from uterine prolapse? secondary infection occur leading to the cow be unable to be re-bred at all. why not palpate corpus luteum first 6-9 days? because it can't be palpated why nasogastric tube used by nose in horses? An NG tube is lubricated so it slides more easily to stomach why slow of calcium administration? because blood calcium may increase too much and cause a heart attack. why should not give ruminants antibiotic orally ? It may lead to adverse events such as anorexia, regurgitation, severe diarrhea, and even death Neostegmin used for ketosis and bloat by S/C inj. قطع عصب The most common problem in the surgery operation is to cut a nerve Dimethicone used for treatment of ... Frothy tympany Mention signs of inflammation: redness - swelling - heat - pain - loss of function

Ionophores + chloramphenicol or erythromycin or gentamicin or tetracycline = toxic in liver drug incompatibility such as عدم توافق الأدوية مثل Tiamulin and ionophores drug synergism as diaverdine and ethopabate choose Lamness in chickens caused by ... E.coli benzimidazoles... (fenbendazole, triclbendazole, and albendazole) nicotinic agonist ... (levamisole - pyrantel - morantel) macrocyclic lactones... (ivermectin, doramectin, and moxidectin) benzene sulphonamide ... (clorsulon) Amitraz is insecticide against demodicosis in dog and It is also used as a topical treatment for flea and tick (Ectoparasite) infestations in dog Dog is the final host of Echinococcus addition of clavulanic acid to amoxicillin will lead to.. extend the antibacterial spectrum of amoxicillin to include B-lactamase which bacteria produce antidote to anticoagulant rodenticide toxicity is vitamin K الترياق المضاد لمبيدات القوارض Vitamin used as anticoccidia ... vit K تحديد عمق التخدير ... Parameters can be checked to determine depth of anesthesia by ... eye position - jaw muscle tone - palpebral reflex منعكس الجفن drug use as immune stimulant is interferon Interferons .... group of signaling proteins released by infected cell to boost anti viral defense brucella canis in dogs no treatment but may we use combination of antibiotics to help reduce the amount of bacteria not completely disappear but Treatment for life is necessary. used to treat hypertension - edema in congestion H.F - liver cirrhosis - renal disease مدرات البول علية المجارة المعلقة المعالمة as MGSO4 and laxavit used for treat constipation and promote defecation and increase intestinal secretion and peristalsis الفسهلات المالحة Bronchodilator الموسعة القصبات type of medication that make breathing easier by relaxing the ms in the lung and widening the airways (bronchi) as aminophylline and caffeine Respiratory stimulant as aminophylline and caffeine used for increase respiratory activity infants and decrease apneic episodes - تقليل نوبات انقطاع النفس pneumonia - emphysema - nasal Anti acid مضاد للحمض substance used to neutralize stomach acidity as sodium bicarb Xanthine found in most human body tissues and fluids and Several stimulants are derived from xanthine, including caffeine Morphine pain killer used in severe pain Penicillin is for anaerobic bacteria types of aminoglycosides... gentamicin, amikacin, tobramycin, neomycin, and streptomycin. Aminoglycoside antibiotics are poorly absorbed from the gastrointestinal tract (GIT) types of macrolides ... erythromycin, roxithromycin, azithromycin and clarithromycin and tylosin Blood parasite stained by Geimsa or leishman stain Brucella and T.B satined by Ziehl nelson Example of drug synergism ... sulpha & trithoprim Causes of cannibalism ... no depeaking - increase light time - crowdeness except battery rearing The major type of antibody found in volk is .... IgG The recommended level of calcium in the diet of broiler chickens is ... 1% Infective stage of histomoniasis eggs of roundworm Heterakis gallinarum in dropping Berenil® contains Diminazine Aceturate used for treatment of Babesiosis and trypanosomiasis Chlorpromazine used as anti emetic in dogs in rectal prolapse in use.... Pursa-string suture in stomach and uterus and urinary bladder use ... Lambert suture camels are pseudo-ruminants (not true ruminants) because ... they lack the four well-defined stomachs of the ruminants; the rumen, reticulum, omasum and abomasum In carnels, only 3 ruminant stomach chambers are rumen, reticulum, and abomasum no omasum un absorbed suture after 10 days what should you do for wound? Sutures should be removed and applying Vitamin E cream and avoid sun and dirty. selenium is used for treatment of white muscle disease with vit D (X) Fracture bone healing process is impaired with tetracyclin therapy (right) And reason why for tetracycline is ... impairs mineralization of growing bone addition of ca and mg in feed increase absorption of tetracyclin (X) important note: magnesium, calcium, iron and other minerals interfere with the absorption of tetracycline into the bloodstream and reduce its effectiveness Lentogenic and mesogenic strain of Newcastle are more pathogenic and more immunogenic examination of pox virus vaccine TAKE should be done at 7-10 days after vaccination contagious mastitis in cattle caused by Staphylococcus aureus Ketamine is approved for general anesthesia animal lacks upper incisors are Ruminants such as cattle, sheep and goats amoxicillin is drug of choice for staphylococcus and streptococcus one of the following is synthetic type is Nylon C.C mean ML ad lib meaning in feed free Drugs used in diarrhea: antibiotics or anthelminthics, anti-inflammatories, electrolyte fluids, vaccination, mineral supplementation and ration management. Antibiotic include Amoxicillin, neomycin, oxytetracycline, streptomycin, sulfamethazine. substance used commonly in diarrhea kaolin and pectin formulation therapeutic regimen of diarrhea include ... fluid therapy what worm infect puppies before parturition? Toxocara canis Dogs transmit rabies and cats transmit toxoplasmosis and swine transmit leptospirosis. in Patellar luxation we cut medial patellar ligament What is the most effective way of preventing poultry diseases ? .. Vaccination best temperature first week poultry .. 32 - 30 not cause nervous sign in poultry ... IB

clinical signs of internal bleeding: Trauma - vit K def - def of clotting factor

swollen head cuased by ... corvza

atropine is contraindicated in thyrotoxicosis

rectal enema used in case of Evacuate the bowel before surgery, X-ray or for bowel examinations such as an endoscopy also Treat severe constipation

What is the hatching period of eggs ? 21 Days

Inactivated vaccines (or killed vaccine) do not need to be frozen

mention differ?

IBD ILT ND - avian pox and vit A - neoplastic diseases 2 -

Cross resistance of antibiotic with examples ?

resistance to antibiotics belonging to the same class due to a single mechanism

Example nalidixic acid and ciprofloxacin, which are both quinolone antibiotics. When bacteria developed resistance to ciprofloxacin, they also developed resistance to nalidixic acid because both drugs work by inhibiting of DNA replication.

Why not use of of drugs for long time? because it leads to chronic heart conditions, impaired breathing, and ulcers in the digestive system.

Antibiotic act as growth promoter?

Use antibiotic at lower doses in animal feed to improve quality of the meat by increasing protein content and decreasing fat percentage

Bacteria resistant to antibiotics ..

Staphylococcus aureus: resistant to penicillin due to S.aureous hydrolyzes the β-lactam ring

Mycobacterium tuberculosis: resistant to many antibiotics due to presence of tubercle

Enterococcus: resistant to vancomycin

Causes of drug resistance failure

\*Over prescribing of antibiotic \*not finishing the course of treatment \*misdiagnosis

\*Over-use of antibiotics in livestock and fish farming. \*lower dose \*wronge choice of antibiotic

\*Poor infection control \* poor hygiene and sanitation \*Mutation

\* Bacteria develop but antibiotics not develop

How to overcome drug resistance?

\*use antibiotic as described \*do not skip doses \*do not save antibiotic

\*talk to your veterinarian for good diagnosis

Causes of vaccine failure

\*Vaccine it self failure of the cold chain - Poor quality of vaccine

\*animal it self improperly fed animals - Lack of herd immunity

\* inadequate viral dose

Antibiotic residues in animal

Drug settle in the animal tissue in meat and milk and egg and honey.

Mode of action

Albendazole is anthelmintic drug act by inhibition of tubulin polymerization and inhibition of fumarate reductase

used for nematode and tape worm and liver fluke but not fasciola because Albendazole has no intestinal activity on adult fasciola like Triclabendazole not approved for pregnant animals

\*Triclabendazole is anthelmintic drug act by inhibition of microtubule formation used for treatment of fasciola not approved for pregnant animals

•Levamisol - pyrantel - morantel are anthelmintic drugs act by choline against in worm muscle lead to depolarization of worm.

•Ivermectin is anti-parasitic drug (antibiotic anthelmintic) act by inhibition of GABA from parasite nervous system

•Enrofloxacin is antibacterial drug act by inhibition of (DNA) gyrase

•Moxidectin is ... Broad spectrum anthelmintic for horse mange

\*Sulfanomides are antibiotics anti coccidial drug act by inhibition formation of folic acid from PABA

\*Aspirin (acetylsalicylic acid) is analgesic, anti inflammatory drug act by inhibition clots formation Used in Fever side effect gastric ulcer- abdominal pain.

\*Diclofenac and Flunixin is non steroidal anti inflammatory drug act by inhibition of COX1 and COX 2 which required to synthesis of prostaglandin lowering the pain

•Organophosphorus poisoning is insecticide act by (Choline esterase inhibition) which required for controlling nerval signals in parasite so the damage of this enzyme kill pests and may cause unwanted side effect in exposed human.

•Atropin is anticholinergic act by competitively blocks the effects of excess acetylcholine due to ops poisoning, at muscarinic cholinergic receptors on smooth muscle, cardiac muscle, secretory gland cells and the central nervous system CNS

•monensin is ionophore antibiotic act by transport the cations across lipid membranes in an electroneutral exchange used for prevention coccidial infection and to prevent bloat by increasing propionic acid

•Amprolium is coccidiostatic in poultry act by blocks the thiamine transporter

used for treatment and prevention of intestinal coccidiosis

amprolium is safe anticoccidial but it is better to use in combination with sulphaquinoxalline

and excess dietary of thiamine block its action

\*Dimetridazole is used for growth promotion and treatment of Histomoniasis

•Metronidazole is antifungal antibiotic used for treatment of Trichomoniasis in animals

but may had side effect which is testicular damage

led to feed

## write short note on laxative and purgative and their clinical application

		Laxative	rurgauve			
	Promote defecation and de	ecrease viscosity content of large	Used for complete colonic cleaning and produce a more fluid			
	intestine		eva	cuation		
	Constipation – anal fissure	Constipation – anal fissure				l
			Food and drug poisoning			
	Probiotic	Prebiotic		Synbiotic	Phytobio	otic
	Ingested of living beneficial bacteria and	Non digestible food as fiber		Synergistic combination of probiotic and	plant derived products	s adde
	yeast as Yogurt	such Bananas		prebiotic		
				Yogurt + Bananas		
	1-Kills harmful bacteria such salmonella and	help these beneficial bacteria grow and		Improve survival rate and colonization	1-Stimulation of feed	intake
	e.coli	improve it's performance			digestive secretions	

-			Yogurt + Bananas	
1-Kills ha	armful bacteria such salmonella and	help these beneficial bacteria grow and	Improve survival rate and colonization	1-Stimulation of feed intake and
e.coli		improve it's performance		digestive secretions
2-break	the toxins			2-Stimulate immunity
3-stimul	late immunity			3-Antimicrobial and coccidiostatic
4-impro	ve ingestion and absorption			4- Antioxidant
5-neutra	alize PH			
6-preve	nt colonization of gut by pathogens			
Bifidoba	acterium and	Oligo saccharide and		and garlic ز عتر thyme
lactobac	zilli	Oligo fructose		,
Streptoc	coccus, Enterococcus, Escherichia			

Acepromazine is sedation	0.02 - 0.05	I/V
<b>Xylazine</b> is sedation and anesthesia	0.05 - 0.3 0.2 - 0.15	I/V I/M
Diazepam is sedation	0.2 – 0.4	I/V

Benign Tumor	Malignant Tumor
Small	Large
Slow growing	Fast growing
Non invasive	Invasive and destroy surrounding tissue
Stay localized	Spread

Disease	Cause	Treatment
Grass tetany	Low blood magnesium	*calcium and magnesium solution
		*magnesium sulphate added to feed
canker in pigeon	Trichomonas gallinae	Carnidazole (Spartrix) and Metronidazole antibiotic (Flagyl)
laminitis in horse	Diseases with inflammation	*(NSAIDs) such as flunixin
	Hormonal diseases	*Anti histamine
	excessive thirst and appetite	*Acepromazine
	Mechanical overload	*ice to cool the feet
	High intake of soluble carbohydrates	*Foot support
	Stress:	
	Obesity : overfeed	
diphtheria in calf	Fusobacterium necrophorum	ceftiofur – nuflor
snuffles in rabbits	Pasteurella multocida	Enrofloxacin
Nymphomania	negative energy balance and high milk producers.	(GnRH) induce (LH)
Mastitis	Bacterial or Fungal infection such	*Antibiotic
	Staphylococcus aureus and Mycoplasmasx	*anti inflammatory
		*ointment
curled-toe paralysis	riboflavin deficiency	riboflavin + multivitamins
Trichomoniasis	Tritrichomonas foetus	No treatment
summer sterility	Increase day length and high temperature	Cooling Cows and make shading area
verminous bronchitis	Lungworm Dictyocaulus	Albendazole +ivermectin
Scaly Leg Mites	Knemidocoptes Mutans	ivermectin inj. Or orally
Mycotoxicosis	Aspergillus flavus	calcium propionate
	Penicillium	
	Fusarium	
Pullorum disease	Salmonella pullorum	I/M tetracycline
Pregnancy toxaemia	Low blood glucose	Glucose
Candidiasis	Candida	fluconazole
fatty liver syndrome	High feed intake esp. caged layers	Changing the balance of carbohydrates and fat in the diet + selenium
		,
Ruminal impaction	the accumulation of the indigestible materials in the rumen	rumenotomy
	such plastic	
foot rot cattle	Fusobacterium necrophorum	ceftiofur – nuflor
		Locally:
		Foot trimming تقليم القدم
		Spray - Foot bath
Babesiosis	Intraerythrocytic protozoan parasit	Imidocarb probionate

Infectious diseases	Non-infectious diseases
Diseases that spread from one animal to another	restrain within an animal
caused by pathogens such as bacteria, protozoans, viruses, etc.	Caused by environment or genetics
Brucella – salmonella - RVF – rabies	feed overload - GI obstruction - gastric ulcers - congenital defects

Infectious disease	Contagious disease	
Disease caused by pathogens such as bacteria, protozoans,	Infectious disease spread by direct contact	
viruses, etc.		
spread by infectious agents.		
Direct and indirect contact such blood, urine, semen and direct physical contact – infected droplets		
insect - contaminated food and water		
Food poisoning – tetanus – blood parasite	Brucellosis	
All contagious diseases are infectious, but not all infectious diseases are contagious		

agious diseases are infectious, but not an infectious diseases are contagious		
Diagnosis		Prognosis
identification of a disease via examination		guess the result the of treatment
diagnosis comes before		e prognosis
Emulsion		Suspension
*Both are dispense s		system
*Both are paticles siz		e 1:30 um
*Both are liquid preparation		paration
Two liquid phase are immiscible	External p	phase is water and
	Internal p	hase is insoluble solid
2 liquids + Emulsifying agent	Liquid + ir	nsoluble solid + suspending agent
Can not be separated by filtration	Separateo	by filtration
Particles not visible by naked eye	Particles v	visible by naked eye
Emulsifying agent are required	Suspendir	ng agent are required
Freezing lead to cracking	Freezing I	ead to aggregation
lotions and creams	Penstrep	Suspension

	Actinomycosis	Actinobacillosis
Common name	Lumpy jaw	Woody tongue
Causative agent	Actinomyces bovis	Actinobacillus lignieresi
Gram stain	Gram + ve	Gram - ve
Affecting tissues	Hard tissue ( mandible and maxilla )	Soft tissue ( tongue and L.N )
The colonies	Small and eosinophilic	Large and basophilic

Drug synergism	Drug antagonism
Occur when drug interact to produce	Occur when each drug's effect
effects greater than used alone	block or reduce by other

Drug synergistic	Drug additive
Occur when drug interact to produce effects	Occur when medicines work together in a
greater than used alone	positive way
pesticide and fertilizer	Anti-inflammatory and muscle relaxant to traet
	joint pain
Antagonist	Antidote
An interaction between two or more drugs that have opposite effects on the body	a chemical drug that limits the effects of a poison
	Atroning for organishashasas
Thiamin and amprolium Atropine for organophosphates	
Agonist Antagonist	
Drug bind to the receptor and give certain action	Drug bind to the same receptor and stop
	response of agonist
Example: naloxone stop action of morphine	

Competitive antagonist	Non Competitive antagonist
Competes with agonist for same binding site	Binds to different binding site and it's effect can
and it's effect can be removed by increasing	not be removed by increasing of agonist
agonist concentration	concentration
If Morphine concentration increased remove	Ketamine block the receptor from glutamate even
naloxone from the receptor and give response	with high concentration no response