## Theriogenology drugs

Drug and active ingredients	Treatments	Dosage and route of administration	Contra indications	Withdrawal time
Ventipulmin® (Clenbuterol HCI)	Bronchodilator, used to manage horses affected with airway obstruction, such as which occurs in chronic obstructive pulmonary disease. Used also as an adjunctive uterine relaxant for dystocia treatment.	Horses: As bronchodilator: 8x10 <sup>-4</sup> mg/kg twice daily for 3 days orally  Dystocia adjunctive Tx: 0.3mg/500kg IV slowly. For emergency 10mls on arrival for treatment	In food producing animals.  Horses with cardiovascular impairment.	N/A
ECP®  (Estradiol Cypionate)	Used to enhance estrus behavior and receptivity in mares and to treat estrogen – responsive incontinence. Was once used as an abortifacient in cattle but has since been made illegal	Horses: Enhance estrus behavior 5-10mg IM once  Estrogen responsive incontinence Tx: 0.004 - 0.01mg/kg IM daily, for 3 days	During pregnancy, may cause fetal malformation.  Food producing animals	N/A
Lutalyse® (Dinoprost Tromethamine Prostaglandin $F_2\alpha$ )	Used in cattle as a luteolytic agent for estrous synching, unobserved estrous in lactating dairy cattle, pyometra and as an abortifacient in non - lactating dairy cattle. It can induce parturition in pigs and controls estrus time in mares and inducing estrus in "difficult to breed mares" (DTBM, however it is only approved for use in cattle	Cattle:     ~ Estrus Synch:     1shot 25mg IM     given twice, 11 days     apart.     ~ Silent estrous and     Pyometra/Endometritis Tx: 25mg IM.     ~ Abortifacient: 25-     30mg IM at day 5-     150 of gestation     ~ Induce Parturition:     25-30mg IM  Horses:     ~ DTBM & estrus     control: 1mg/45kg IM.     ~ Abortifacient:     5mg IM (< 12days),     1mg/45kg IM (> 4     months pregnant),     2.5mg q12, 4 times.  Swine:     ~ Estrus synch: Day     15-55 of gestation,     15mg IM, then     10mg IM, then     10mg IM 12 hours	Pregnant animals not intended to abort. Animals with bronchoconstrictive respiratory disease. Do not administer IV. Mares with acute or subacute disorders of the vascular system, GI tract or reproductive tract.	Meat and Milk: nil

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		later.		
		~ Abortifacient: 5-		
		10mg IM.		
		~ Induce Parturition:		
		10-25mg IM 2-6		
		days before		
		expected parturition		
Fertiline <sup>®</sup>	Treatment of ovarian	Cattle: 0.1mg IM or	None specified	Meat and Milk:
	follicular cysts in dairy	IV		nil
(Gonadorelin	cattle. Reduces time			
="	between calving to first	Sheep and Goats:		
acetate)	ovulation and increase	0.1mg daily for 4-5		
	the number of ovulations	days o induce		
	within the first 3 months	ovulation		
	of calving. Used in cows			
	with retained placentas to			
	increase fertility.			
Receptal®	For infertility of ovarian	Cattle: Oestrus	None specified	Meat and Milk:
neceptar	origin and improvement	Syching in dairy	one specifica	nil
	_			1111
(Buserelin	of pregnancy rate in	cows: Day 0		
acetate)	cows. For the	Receptal (2.5 ml).		
,	synchronization of estrus	Day 7 Prostaglandin		
	in dairy cows and for	(at luteolytic dose).		
	reducing the calving to	Day 9 Receptal		
	conception interval in	(2.5ml)		
	these cows when used	(2.01)		
	with a PGF 2α.	Homasa Crimohamira		
		Horses: Synchronize		
	Synchronize ovulation	ovulation more		
	more closely with mating	closely with		
	in mares.	mating: 10 ml first		
	Induces ovulation in gilts	day on which the		
	after estrus	follicle has reached		
	synchronization in order	its maximum size.		
	•			
	to facilitate a single fixed	Repeat if ovulation		
	time artificial	has not occurred		
	insemination program.	within 24 hours.		
		Pigs: Estrus		
		_		
0 16::	Caller Later 4	synching: 2.5ml/ pig	A	M 1
Oxyvet® Inj	Stimulate uterine	<u>Cattle</u> : ~ Retained	Animals with dystocia,	Meat and milk:
	contractions:	placenta: 2-3 ml IM	that are hypersensitive to	nil
(Oxytocin)	During parturition: partus	q2h.	it, non- relaxed cervix	
(Oxytociii)	induction in mares and	~ Metritis: 1ml IM,		
	uterine inertia in sows.	3- 4 times per day.		
	Promote uterine	~ Augment		
	involution (uterine	contractions: 1.5ml		
	atonia, after reposition of	IM. ~ Obstetrics:		
	uterine prolapse, aid in	5ml		
	the removal of retained	~ Milk let down: .5-		
	placenta, for the	1ml IV		
	reduction of retained			
		Horson Initiata		
	placenta in cows). Aids	Horse: ~ Initiate		
	in the treatment of	contractions: 0.125-		
	endometritis (for removal	.25ml IV every 20		
	of intrauterine fluid) in	minutes.		
	mares.	~ Prevent luteolysis:		
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	Promotes milk letdown: (post-partum agalactia in heifers, maiden mares and as an adjunctive treatment of MMA in sows) and for the removal of residual milk (supportive therapy in case of mastitis).	3ml IM at 7-14 days post-ovulation.  ~ Remove retained placenta: 1ml IV, IM every hour, 4 hours prior to foaling.  ~ Metritis: 1ml IM 3-4 times a day for 2-3 days.		
		Pig: ~ Agalactia Tx: 1.5-2mls IM ~ Retained placenta: 1 - 1.5ml, q2-3h ~ Augment contractions: 0.5ml IM every 30mins ~ Milk let down: 0.25-1ml IV		
		Sheep & Goats: Retained placenta Tx: 10-20 Units Metritis Tx: 5-10 Un IM 3-4x/day for 3days		
Oxytokel®  (Oxytocin)	Same as above	By IM or SC: Obstetrics: Pigs: 1- 3ml. Cows and Mares: 4- 6ml.	Animals with dystocia, that are hypersensitive to it, non- relaxed cervix	Meat and Milk: nil
		Agalactia: Pigs: 0.25-1ml		
		Cows and Mares: 1-2ml. If given IV its 1/3 to ½ of abovementioned dose.		
		Ewes, goats: 1ml/50kg IM		
Progesterone 5%	Hormone for use in habitual abortion, threatened abortion, nymphomania, sterility,	Cows and Mares: 50 - 100mg IM per animal daily	Liver or kidney dysfunction	Meat and Milk: nil
(Progesterone)	mammary underdevelopment and oestrous control in farm animals and mares	Pigs: 15 to 25mg IM per animal daily, as needed.		
		Sheep and goats: 10 to 15 mg per animal daily, as needed		