		Anesth	etics, <mark>Sedatives</mark> ,	Analgesic & Euthanas	<mark>sia</mark>	
Drug	Use	Animal	Route of	Dosage	Warning	Withdrawal
			Administration			Period
Bomazine 2% & 10%	Used as a localized anesthetics. Use to induce anaesthesia or preoperative sedation as well as it can be used as a muscle relaxant and for analgesia in horses.	Horse Cattle Sheep goat	Intramuscular Intravenous	Horses: 1.1 mg/kg IV 2.2 mg/kg IM. Cattle: 0.02- 0.05 mg/kg IV. Sheep and Goat: 0.01 mg/kg. IM.	It should generally not be used in the last trimester of pregnancy because it may induce premature parturition. Avoid intraarterial injection; may cause severe seizures	MIlk should not be consumed until 7 days after treatment. Meat should not be consumed until 28 to 30 days after treatment
Bupivacaine	Used as a local or regional anaesthesia and analgesia for surgery. It can also used as an epidural analgesia/anesthesia	Horse Cattle	Intramuscular epidural	Single dose: 175 mg/3hr Max dose: 400 mg/24 hr 1-2 mg/kg	and collapse. 0.75% concentration of bupivacaine is not recommended for obstetrical anesthesia, it has been linked to cardiac arrest with difficult resuscitation or death.	

Ketamine Hcl	Ketamine is a rapid	Horse	Intramuscular	2 mg/kg IV.	Use in patients	3 days for meat and 48
20%	acting general	Swine	Intravenous		with significant	hours for milk.
	anesthetic that has	Cattle		CRI: Loading dose	hypertension,	
	significant <mark>analgesic</mark>	Sheep		of 0.6 mg/kg IV,	heart failure, and	
	activity and a lack of			followed by CRI of	arterial	
	cardiopulmonary			0.4-0.8 mg/kg/hr.	aneurysms could	
	depressant effects.				be hazardous.	
				10 mg/kg IM. Often		
				used in	Ketamine can	
				combination with	cause increases	
				other agents, such	in CSF pressure	
				as xylazine.	and it should not	
					be used in cases	
				Foals, treatment of	with elevated	
				seizures: 0.02	pressures or	
				mg/kg/min CRI.	when head	
					trauma has	
					occurred.	
Lidocaine	Use as a local and	Horse	Intravenous	Horse:	Lidocaine should	24 to 36 hours
injection BP 2%	topical anesthetic	Cattle	Epidural	Antiarrhythmic-	be used with	withdrawal period for
	agent.			0.25 – 0.5 mg/kg IV	caution in	meat and milk.
				(slowly) every 5 –	patients with	
	It is also used to			10 minutes up to a	liver disease,	
	treat ventricular			total dose of 1.5	congestive heart	
	arrhythmias,			mg/kg.	failure, shock,	
	principally			EPIDURAL: Cattle	hypovolemia,	
	ventricular			and Horses: 5 to 15	severe	
	tachycardia and			mL.	respiratory	
	ventricular			NERVE BLOCK:	depression, or	
	premature			Cattle and Horses: 5	marked hypoxia.	
				to 20 mL.		

	complexes in all species. In horses, lidocaine may be useful to			INFILTRATION: Dilute to 0.5% concentration.	When preparing lidocaine for intravenous injection, be certain of the	
	prevent postoperative ileus and reperfusion injury				concentration and do not use products containing epinephrine.	
Thiopental 1g	Used primarily for induction of anesthesia or for short duration of anesthesia for very short procedures. It induces a rapid, smooth, and generally excitement-free induction.	Horse Swine Ruminants (Cattle, Goat and Sheep)	Intravenous Intramuscular	Cattle: no more than 6.6 mg/kg IV for deep surgical Anesthesia. Calves under 2 weeks of age: 15 – 22 mg/kg IV slowly until complete muscular relaxation. Horse: With preanesthetic tranquilization: 6 – 12 mg/kg IV (an average of 8.25 mg/kg is recommended); Without preanesthetic	Too rapid IV administration can cause significant vascular dilatation & hypoglycemia. Avoid: Extravasation, intra-carotid or intra-arterial injections. Severe CNS toxicity & tissue damage has occurred in horses receiving intra-carotid injections	Cattle: 24 to 36 hours withdrawal period for meat and milk. Swine: 1 day withdrawal period.

	_	1	1		,	
				tranquilization: 8.8		
				– 15.4 mg/kg IV.		
				Swine: 5.5 – 11		
				mg/kg IV.		
				J. 3		
				Goat: 20 – 22		
				mg/kg IV after		
				atropine		
				a cropine		
				Sheep: 9.9 – 15		
				mg/kg IV depending		
				on depth of		
				anesthesia required		
				anestnesia required		
Euthanasia Fort	Usually used as	Horses	Intravenous	Euthanasia-	An overdose of	
Solution	intravenous	swine	meraverious	Cattle: Overdose of	pentobarbital	
Sodium	anesthetic. It also is	Cattle		60-80 mg/kg	produces rapid	
Pentobarbitone	used to control	Goat		sodium	unconsciousness	
BP 400mg in	severe seizures in	Sheep		pentobarbital IV.	and anesthesia	
stabilizing	animals for	Sileep		pentobarbitariv.	followed by	
_				Horses: xylazine to	· ·	
solution]	treatment during			•	respiratory	
	status epilepticus.			sedate animal to	depression,	
	la sous instances			prevent any	hypoxia, and	
	In some instances,			excitatory trauma	cardiac arrest.	
	Pentobarbital is			before overdosing		
	included in mixtures			animal with 60ml of	The carcass of	
	used to induce			sodium	animals	
	euthanasia in			pentobarbital IV.	ethanized by	
	animals.				sodium	
					pentobarbital is	

Theraputic/ anesthetic effect- Horse: 15 – 18 mg/kg IV for light anesthesia.	considered unfit for human consumption.
Swine: 15 – 30 mg/kg IV for anesthesia.	
Cattle: 15 – 30 mg/kg IV for anesthesia.	
Sheep and goat: 20 – 30 mg/kg IV	