



VETERINARY DRUGS AND ANIMAL FEED ADMINISTRATION AND CONTROL AUTHORITY

ETHIOPIAN VETERINARY DRUGS LIST (2nd Edition)



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List of Acronyms

FAO	Food and Agricultural Organization of United Nations
FPS	Food producing animal species
g	Gram
IFC	International Finance Corporation of the World Bank Group
IU	International Unit
IV	Intravenous
L	Liter
mcg/ μ g	Microgram
mg	Milligram
MIU	Million of International Unit
ml	Milliliter
MRL	Maximum residue limit
VDFACA	Veterinary Drug and Animal Feed Administration and Control Authority
v/v	Volume by volume
w/v	Weight by volume
w/w	Weight by weight



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Foreword

Veterinary drugs are essential in animal health practice. For the successful animal health care, the drugs should be available and are safe, effective, and in the required quality. In addition to their accessibility, they should also be prescribed, dispensed and used rationally. Preparing a list of veterinary drugs for the country, structure the drugs in the list into different categories, and revising the list whenever necessary is among the mandates given to Veterinary Drugs and Animal Feed Administration and Control Authority according to article 20(4) of veterinary drugs and feed administration and control proclamation 728/2011. Guided with this mandate this veterinary drug list is revised with wide consultation and discussions made with professionals in veterinary practice, research and academia, veterinary pharmaceutical trade sector and other related fields. This second edition is believed to solve the gaps we were facing during market authorization due to limited list of drugs on the first edition. It is also hoped to serve as a useful guide to develop other regulatory guides and manuals; and for procurement, distribution and prescription of veterinary drugs in the country.

Finally, I would like to express my gratitude to the development partners and professional experts who have directly or indirectly extended their helping hands in the revision of the list. And moreover, I want to remind all field veterinary professionals and animal owners to give more attention to prevention and control of illegal trade and distribution of veterinary drugs and to rational utilization and good handling of veterinary drugs to minimize development of drug resistance which play a negative role on animal health, production and productivity and on the health of animal product consumers. I also call upon all animal health professionals and other interested parties to forward their inputs for continuous development and revision of the list.



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Introduction

The provision of adequate animal health care requires (in part) the availability of safe, effective and affordable drugs of the required quality, in an adequate quantity at all times. The available drugs must also be presented, dispensed and used rationally. Some countries list veterinary drugs to be used in veterinary service within their specific market based on the animal diseases prevalent in the country, trained manpower, the economic capacity of the country and users, and veterinary infrastructures.

The National Veterinary Drug List (NVDL), which was in use in the country, is obsolete. Due to the limited number of drugs in the list, VDFACA was not able to authorize a number of product registration applications. Irrational use of available drugs, drug resistance, and residue problems are also common challenges in the country. So, this document needs to be updated to ensure the availability and rational use of veterinary drugs. Improving the national drug list will help to increase the choices of livestock keepers for effective drugs which are at the moment reported to be in dearth. It will also help to minimize the type of drugs which are rejected by the users because some of the pathogens have already developed resistances against it or it is posing safety problems and is banned or restricted from the international market.

Now, VDFACA, with the assistance of the International Finance Corporation (IFC/World Bank Group) and the Food and Agricultural Organization of the United Nations (FAO), was engaged in the revision of the national veterinary drug list, which has been in use for the last 16 years in the country. To undertake this assignment, VDFACA has established a technical review committee drawn from public and private organizations, Research and Academia. The committee was spearheading the drug updating process, under the leadership of the drug registration and certification directorate of VDFACA. The United Kingdom Veterinary Medicine Directorate (UK-VMD) has also come on board with the assistance of IFC. This institution provided cutting edge knowledge on veterinary drugs and on international experiences with regard to the drug business.



This new edition has a total of 429 veterinary drugs. 153 new chemical entities are added, while twenty one (21) drugs are deleted from the previous list because of their low benefit to risk ratio. This new edition included a list of sixty (60) vaccines, which can solve the growing need for vaccines in the livestock industry.

In general, this list will help the authority in market authorization of medicines, improve the access and quality of veterinary drugs in the market, serve as a useful guide for procurement, distribution, prescription, dispensing and use of drugs in the country and help to develop other supporting guides and manuals essential for rational use of drugs and improve veterinary practice.



Pharmacotherapeutic Classification of Drugs

S/N	Chemical Name	Dosage Form	Strength
ANTIBACTERIALS			
Penicillins			
1.	Amoxicillin	Injection	100mg/ml, 150mg/ml, 200mg/ml
		Tablet	40mg, 50mg, 200mg, 250mg, 400mg, 500mg, 1500mg
		Capsule	250mg
		Powder for injection	150mg, 250mg, 500mg
		Oral Powder	5%, 10%, 20%, 50%, 70%, 80%, 100%w/w
		Oral suspension	5%, 10%, 15%
		Ointment	40mg/5g
2.	Amoxicillin + Clavulanic acid	Injection	140 + 35 mg/ml
		Tablet	40mg + 10mg, 50mg+12.5mg, 200mg+50mg, 250mg+62.5mg, 400mg+100mg, 500mg+125mg
		Oral Powder	5g+1.25g
3.	Amoxicillin + Sulbactam sodium	Powder for inj.	500mg + 125mg
4.	Ampicillin	Injection	100mg/ml, 150mg/ml, 200mg/ml, 300mg/ml
		Tablet	50mg, 125mg, 500mg
		Capsule	250mg



		Powder for injection	500mg, 1g, 2g
		Oral Powder	10%, 20%, 50%, 75%
5.	Ampicillin + Cloxacillin	Injection	10mg+10mg/ml, 15mg + 15mg/ml, 22.5mg+22.5mg/ml, 95mg+48mg/ml
		Intramammary suspension	75mg + 200mg/5g, 200mg + 200mg/10ml, 250mg+500mg/4.5g, 300mg + 600mg/5.4g,
6.	Ampicillin + Dicloxacillin	Intramammary suspension	190mg + 190mg/syringe, 200mg + 200mg/syringe
7.	Ampicillin + Sulbactam sodium	Powder for injection	500mg + 125mg
8.	Benzathine Penicillin G + Procaine Penicillin G	Injection	150,000IU +150,000IU/ml, 200,000IU + 112,500IU/ml, 112,500IU/ml + 150,000IU/ml
		Powder for injection	900,000IU
9.	Cloxacillin	Intramammary suspension	200mg/syringe, 500mg/syringe, 600mg/syringe, 625mg/syringe
		Eye ointment	835mg/5g, 16.7%
10.	Penethamate	Powder for injection	236.3mg/ml, 269.5mg/ml, 277.8mg/ml
11.	Phenoxymethylpenicillin	Oral powder	293mg/g, 352mg/g, 800mg/g
12.	Procaine Benzylpenicillin	Injection	300,000 IU/ml, 4,000,000IU/ml
		Powder for injection	4800IU, 800000IU, 4MIU
		Intramammary suspension	300,000IU/ml, 4MIU/ml, 600mg/ml, 3g/10ml



Cephalosporines

1.	Cefovecin	Powder for injection	80mg/ml
2.	Cephapirin	Intramammary suspension	200mg/syringe, 300mg/syringe
		Intrauterine suspension	500mg/syringe
3.	Cephalexin	Tablet	50mg, 75mg, 250 mg, 300 mg, 500 mg, 600mg, 750 mg, 1000mg
		Powder for injection	18%
4.	Cephalonium	Intramammary suspension	250mg/3g syringe

Tetracyclines

1.	Chlortetracycline	Bolus	1g
		Powder	10%, 150mg/g, 20%, 250mg/g, 50%
		Oral solution	15%, 50%
		Spray	2.45%, 2.8%, 7.88%
		Eye ointment	10mg/g
		Intrauterine bolus	1000mg
2.	Chlortetracycline + Benzocaine	Topical powder	2% + 1%
3.	Doxycycline	Injection	25mg/ml, 50mg/ml, 100mg/ml, 200mg/ml
		Tablet	50mg, 200mg, 400mg
		Capsule	50mg, 100mg



	Oral Powder	50mg/g, 100mg/g, 200mg/g, 300mg/g, 500mg/g
	Oral solution	100mg/ml, 200mg/ml
4. Oxytetracycline	Injection	50mg/ml, 100mg/ml, 120mg/ml, 200mg/ml, 300mg/ml
	Tablet	50mg, 100mg, 250mg, 500mg, 1g
	Oral Powder	50mg/g, 100mg/g, 200mg/g, 250mg/g, 500mg/g, 1000mg/g
	Intramammary suspension	500mg/syringe
	Aerosol Spray	2%, 2.5%, 3.6%, 3.92%, 5%, 10%, 20%
	Intra-uterine solution	100mg/ml, 1500mg/ml
	Intra-uterine bolus	500mg, 2000mg
	Pessary	0.5g
5. Oxytetracycline + Flunixin meglumine	Injection	30% + 2%
6. Oxytetracycline + Lidocaine Hydrochloride	Injection	5g + 0.1g/100ml
7. Tetracycline	Intrauterine bolus	500mg, 2000mg

Sulphonamides

1. Sulphadimidine Sodium	Injection	160mg/ml, 300mg/ml, 330mg/ml, 333mg/ml
	Bolus	5g



	Oral powder	80mg, 100mg, 160mg, 200mg, 250mg, 300mg, 1000mg
2. Sulphachlopyridazine + Trimethoprim	Injection	200mg + 40mg/ml
	Oral powder	100mg + 20mg
3. Sulphaclozan sodium	Oral powder	300mg, 600mg
4. Sulphadimidine + Trimethoprim + Atropine Sulfate	Oral solution	100mg + 20mg + 20mcg
5. Sulphadoxine + Trimethoprim	Injection	200mg + 40mg/ml, 400mg + 80mg/ml
	Tablet	100mg + 20mg, 250mg + 50mg, 400mg + 80mg
	Oral powder	100mg + 20mg
	Oral suspension	50mg + 10mg/ml, 400mg + 80mg/ml
7. Sulphamerazine + Sulfadiazine + Sulfathiazole + Trimethoprim	Injection	100mg + 60mg + 40mg + 40mg/ml
8. Sulphamethoxypyridazine	Injection	250mg/ml
9. Sulfamonomethoxine sodium + Trimethoprim	Injection	50mg/ml + 10mg/ml
10. Sulphaquinoxaline + Pyrimethamine	Oral solution	50mg + 15mg/ml



11.	Sulphachlopyridazine	Oral powder	300mg/g
12.	Sulphadiazine + Trimethoprim	Injection	100mg + 20mg, 200mg + 40mg/ml, 400mg + 80mg/ml
		Tablet/Bolus	100mg + 20mg, 400mg + 80mg, 1000mg + 200mg, 2g+400mg
		Oral powder	500mg + 50mg/g, 400g + 80g/kg, 18.68g + 4g/kg, 33.33g + 6.67g/100g
		Granule	12.5g+2.5g
		Oral suspension	50mg + 10mg/ml, 125mg + 25mg/ml, 45.5mg + 9.1mg/ml, 400mg + 80mg/ml
		Oral paste	333mg + 67mg/g, 13g + 2.6g
13.	Sulphadimethoxine	Injection	33.3g/100ml, 400mg/ml
		Oral powder	250mg/g
		Oral suspension	50mg/ml
14.	Sulphadimethoxine + Baquiloprim	Injection	100mg + 20mg/ml
		Tablet	50mg+ 10mg, 500mg + 100mg
		Oral powder	72mg + 8mg/g
15.	Sulphadimidine + Trimethoprin	Oral powder	200mg + 40mg, 400mg + 80mg
16.	Sulphadimidine + Trimethoprin + Sulphadiazine	Oral powder	100mg + 40mg + 100mg



17.	Sulphadimidine + Baquiloprim	Injection	41.7mg + 33.3mg/ml, 134.9mg + 33.3mg/ml
		Bolus	1200mg + 800mg, 7.2g + 800mg
18.	Sulphadimidine sodium + Diverdidine	Oral powder	74g+8g
19.	Sulphamerazine	Oral powder	160mg, 200mg, 250mg, 300mg
20.	Sulphamethazine	Oral powder	160mg, 200mg, 250mg, 300mg
21.	Sulphamethoxazole + Trimethoprim	Injection	200mg + 40mg/ml
		Tablet	400mg + 80mg, 1.25g + 0.25g
		Oral suspension	40mg + 8mg/ml, 8g + 20g/100ml, 80mg + 20mg/ml, 100mg + 20mg/ml
22.	Sulphaquinoxaline Sodium	Oral powder	200mg, 250mg
		Oral solution	28.62g/100ml
23.	Sulphaquinoxaline + Trimethoprim	Granule	50% + 16.5%

Aminoglycosides

1.	Dihydrostreptomycin + Streptomycin	Injection	150mg + 150mg/ml, 2 million I.U + 250mg/ml
2.	Gentamicin Sulfate	Injection	35mg/ml, 40mg/ml, 50mg/ml, 100mg/ml, 200mg/ml
		Oral Powder	100mg/g



	Intramammary suspension	20mg/g, 100mg/dose, 170mg/dose
	Eye drop	0.3%, 0.5%
3. Kanamycin	Injection	5%, 10%, 20%, 30%
	Oral powder	100mg, 120mg, 150mg, 200mg, 500mg
	Spray	2.4mg/ml
4. Neomycin Sulfate	Oral powder	20%, 30%, 50%, 70%, 100%
	Eye drop	0.5% w/v
5. Spectinomycin	Injection	100mg/ml
	Oral solution	50mg/ml
6. Streptomycin Sulfate	Injection	200mg/ml, 250mg/ml, 72g/100g
	Oral solution	12.5%

Macrolides

1. Erythromycin	Oral powder	50mg/g, 165mg/g, 200mg/g, 300mg/g
	Intramammary suspension	300mg/syringe
2. Gamithromycin	Solution for injection	150mg/ml
3. Spiramycin	Injection	150,000,000 IU, 600,000IU
4. Tildipirosin	Solution for injection	40mg/ml, 180mg/ml
5. Tilmicosin	Solution for injection	300mg/ml
	Oral solution	250mg/ml



	Oral granule	100mg/g
6. Tulathromycin	Solution for injection	25mg/ml, 100mg/ml
7. Tylvalosin	Oral granules	42.5 mg/g, 625mg/g
8. Tylosin	Injection	5%, 10%, 15%, 20%, 22%, 30%, 50%
	Tablet	200mg
	Oral powder/granule	10%, 20%, 50%, 80%, 100%

Quinolones

1. Ciprofloxacin	Injection	10%, 20%
	Oral powder	20mg/g, 50mg/g, 100mg/g
	Oral suspension	5%, 10%
2. Enrofloxacin	Injection	2.5%, 5%, 10%, 20%
	Tablet	15mg, 50mg, 150mg, 200mg
	Oral powder	2.5%, 5%, 10%, 20%
	Intramammary suspension	4g/syringe
	Oral solution	0.5%, 2.5%, 10%, 20%, 25%
3. Flumequin	Injection	5%
	Oral powder	10%, 20%, 50%
	Oral suspension	4mg/ml, 100mg/5ml, 100mg/ml, 200mg/ml
5. Marbofloxacin	Injection	10mg/ml, 20mg/ml, 40mg/ml, 100mg/ml, 160mg/ml
	Tablet	5mg, 10mg, 20mg, 25mg, 40mg, 50mg,



			80mg, 100mg, 200mg
		Powder for injection	200mg
6.	Norfloxacin	Injection	20%, 50mg/ml
		Oral powder	10%
		Oral solution	50mg/ml, 100mg/ml, 200mg/ml
7.	Norfloxacin + Nicotin Acid	Oral solution	200mg + 4mg/ml
8.	Pradofloxacin	Tablet	15mg, 60mg, 120mg
		Oral suspension	2.5%
9.	Pefloxacin	Oral powder	100mg/g

Lincosamides

1.	Clindamycin	Tablet	25mg, 75mg, 150mg, 300mg
		Capsule	25mg, 75mg, 150mg, 300mg
		Oral solution	25mg/ml
2.	Pirlimycin	Intramammary infusion	5mg/ml
3.	Lincomycin Hydrochloride	Injection	30mg/ml, 100mg/ml, 113.4mg/ml
		Capsule	100mg, 200mg, 300mg, 400mg, 500mg
		Oral Powder	400mg, 500mg
		Oral solution	5%, 40%



Other Antibacterials

1.	Florfenicol	Injection	300mg/ml, 450mg/ml
		Oral solution	23mg/ml, 100mg/ml, 200mg/ml
		Oral granules	200mg/g
2.	Fusidic acid	Eye ointment	10 mg/g
3.	Salinomycin	Oral powder	6%, 12%, 20%, 25%, 50%
4.	Tiamulin	Solution for injection	162mg/ml, 200mg/ml
		Oral solution	100mg/ml, 125mg/ml, 250mg/ml
		Oral granules	100mg/g, 450mg/g

Combinations

1.	Amoxicillin + Clavulanic Acid + Prednisolone	Intramammary suspension	200mg+50mg+10mg/syringe
2.	Amoxicillin + Tylosin	Oral powder	5%+5%
3.	Cephalexin + Kanamycin	Intramammary suspension	200mg+100000IU/syringe
4.	Chlortetracycline + Neomycin Sulfate	Pessaries	1g + 0.5g
5.	Cloxacillin Benzanthine + Neomycine Sulphate	Intramammary suspension	500mg+500mg
6.	Cloxacillin sodium + Neomycin Sulfate + Prednisolone	Intramammary suspension	300mg+200mg+10mg
7.	Dihydrostreptomycin +	Intramammary	12,500,000IU +5g/100ml



	Benzanthine Penicillin	suspension	
8.	Dihydrostreptomycin + Streptomycin	Injection	150mg + 150mg/ml, 2,000,000IU +250mg/ml, 500mg/ml + 500mg/ml
9.	Dihydrostreptomycin Sulphate + Procaine benzylpenicillin	Injection	200mg + 200,000IU/ml, 250mg + 200,000IU/ml
10.	Dihydrostreptomycin Sulphate + Procaine Penicillin G + Vitamins	Oral powder	133mg + 45mg
		Intramammary suspension	250mg + 300,000IU/dose, 500mg +300,000IU/dose
11.	Doxycycline + Gentamicin	Oral powder	200mg+200mg/g
12.	Erythromycin + Sulfadiazine + Trimethoprim	Oral powder	9% + 7.5% + 1.5%, 18% + 15% +3%
13.	Florfenicol + Flunixin meglumin	Solution for injection	300mg/ml + 16.5mg/ml
14.	Kanamycine Sulphate + Benzanthine Penicillin + Procaine benzylpenicillin	Intramammary suspension	75mg + 300,000IU + 300,000IU/dose
15.	Lincomycin + Neomycin sulphate	Intramammary suspension	330mg + 100 mg
16.	Lincomycin + Spectinomycin	Injection	2%+4%, 5%+10%



		Powder for injection	20mg+40mg
		Powder	16.65g + 3.35g/100g, 222mg+444mg
17.	Penethamate hydroiodide + neomycin sulphate + procaine benzyl penicillin	Intramammary suspension	100mg+ 100mg + 400mg/4.5g syringe
18.	Penicillin G + Penicillin G Procaine + Streptomycin sulfate	Injection	1,200,000 IU + 400,000 IU +2g
19.	Penicillin G Procaine + Dihydrostreptomycin Sulfate + Methydrobenzoate	Injection	150,000 IU + 200mg + 1g/ml
20.	Penicillin G Procaine + Penicillin G Benzathine + Dihydrostreptomycin Sulphate	Injection	15MIU + 15MIU + 20g/100ml
		Powder for injection	0.5MIU+1.5MIU+5g
21.	Penicillin G Sodium + Penicillin G Procaine + Dihydrostreptomycin	Injection	750,000 IU + 750,000 IU + 1g/10ml, 1,800,000 IU + 1,200,000 IU + 2.5g/10ml, 3,600,000 IU + 2,400,000 IU + 5g/20ml
22.	Penicillin G + Formosluphathiazol + Streptomycin sulphate	Pessaries	62.5mg + 1.75g + 50mg
23.	Procaine penicillin G + Neomycin	Injection	200mg+100mg/ml



		Intramammary suspension	200,000IU + 100mg/ml
24.	Procaine Penicillin G + Dihydrostreptomycin Sulphate +Procaine Hydrochloride	Injection	200,000 IU + 250mg + 20mg/ml
25.	Procaine Penicillin G + Streptomycin Sulfate	Solution for Injection	200,000IU + 200mg/ml, 200,000IU + 250g/ml, 25,000,000IU+25g/100ml
		Powder for injection	2.6MIU + 2g
26.	Procaine benzylpenicillin + streptomycin sulphate + neomycin sulphate + prednisolone	Intramammary suspension	100,000IU + 100mg + 100mg + 10mg
27.	Sulfathiazole + Penicillin G + Streptomycin Sulfate + Ehinyloestradiol	Pessaries	1750mg + 100,000IU + 50mg + 0.5mg
28.	Sulphadiazine + Tetracycline Hydrochloride + neomycin sulphate	Tablet	4g + 50mg + 50mg
29.	Sulfadiazine + Neomycine sulphate	Oral suspension	150mg + 25mg/ml, 250mg/ml + 25mg/ml
30.	Tetracycline hydrochloride + Neomycine sulfate	Oral powder	0.25g + 500, 000IU



ANTIFUNGALS

1.	Amphotericin-B	Injection solution	5mg/ml, 10mg/ml
		Powder for infusion	50mg/vial (4mg/ml after reconstitution)
		Topical	3% lotion/cream
2.	Chlorhexidine digluconate + Miconazole nitrate	Shampoo	11.26 mg + 17.37 mg
3.	Clotrimazole	Cream/ointment	1%w/w
4.	Copper Sulfate	Oral powder	95%
5.	Enilconazole	Cutaneous emulsion	100mg/ml
6.	Fluconazole	Injection	2-mg/ml
		Oral suspension	10mg/ml, 40mg/ml
		Tablet	50mg, 100mg, 150mg, 200mg
7.	Griseofulvin	Tablet	125mg
		Oral powder	7.5%
		Oral paste	33.3%
8.	Itraconazole	Oral solution	10mg/ml
		Capsule	100mg
9.	Ketoconazole	Tablet	200mg, 400mg
		Oral suspension	20mg/ml
10.	Natamycin	Topical ointment	10%



11.	Nystatin	Oral powder	4.4% powder
12.	Zinc Sulphate	Oral powder	99%

Combinations

1.	Nystatin + Framycetin sulphate + diethanolamine fusidate + predinsolone	Ear drops suspension	100,000IU + 5mg +5mg + 2.5mg/g
2.	Nystatin + Permethrin + Neomycin + Triamcinolone acetone	Ear gel	100,000IU/g + 10mg/g +3500IU/mg + 1mg/g

ANTIPROTOZOALS

Anticoccidials

1.	Amprolium Hydrochloride	Oral powder	200mg, 250mg, 300mg, 600mg
		Oral solution	38.4mg/ml, 12%, 20%, 40%, 50%
2.	Decoquinate	Oral powder	60mg/g
3.	Diclazuril	Oral suspension	0.25%, 1%, 2.5%
4.	Halofuginone	Oral solution	0.5mg/ml
5.	Lasalocid A Sodium	Oral powder	150mg/g
6.	Monensin	Oral powder	200mg/g
7.	Robendine Hydrochloride	Oral powder	66mg /g
8.	Toltrazuril	Oral solution	2.5%, 5%



Trypanocides and Other Related Drugs

1.	Amicarbalide	Solution for injection	500mg/ml
2.	Diminazene Aceturate (diaceturate)	Solution for injection	35mg/ml
		Powder/Granule for injection	1.1g, 1.05g, 495mg, 444mg
3.	Diminazene aceturate + Phenazone	Solution for injection	70mg/ml+375mg/ml
		Granule /powder for injection	444mg + 556mg, 1.05g + 1.312g
4.	Diminazene Diaceturate + Vit B ₁₂	Granule /powder for injection	1.05g + 0.0012g, 445mg + 555mg
5.	Diminazene Diaceturate + Antipyrine + Vit B12 + B6	Granule /powder for injection	445mg + 555mg
6.	Diminazene Diaceturate + Levamisole	Granule for injection	1.05g+1.5g
7.	Homidium	Tablet	250mg
8.	Imidocarb	Solution for injection	85mg/ml, 120mg/ml
9.	Isometamidium Chloride	Powder for Injection	1g, 125mg
		Granule for injection	510mg/g
10.	Melarsomine	Injection	25mg/ml
		Powder for injection	50mg



11.	Quinapramine Sulfate	Powder for injection	1g, 3g
12.	Quniapramine Sulfate + Quinapramine Chloride	Powder for injection	1.5g + 1g, 1.8g + 1.2g
13.	Pentamidine	Powder for injection	4%

Combinations

1.	Amprolium + Sulfaquinoxaline	Oral powder	1.67% + 1.67%
2	Amprolium Hydrochloride + Vitamin K	Oral powder	20% + 0.2%
3.	Amprolium +Furafolidene+ Vitamin K + Vitamin A	Oral powder	0.2% + 10% + 2.5% + 2%
4.	Amprolium + sulfaquinoxaline + Vitamin K	Oral powder	16.5% + 18.5% + 5%, 20% + 20% + 2%
5.	Sulfaquinoxaline + Diverdine	Oral powder	18.7% + 3.3%

ANTHELMINTICS

Benzimidazoles

1.	Albendazole	Bolus	150mg, 300mg, 600mg, 1500mg, 2500mg
		Oral powder	20%, 30%
		Oral suspension	1.5%, 2.5%, 5%, 10%, 12.5%, 20%
		Paste	15g



2.	Febantel	Oral suspension	25mg/ml, 100mg/ml
		Paste	7.5%
3.	Fenbendazole	Bolus	250mg, 750mg, 1g, 1.5g
		Granule/powder	40mg, 200mg, 220mg, 222.2mg, 250mg, 440mg, 666mg, 880mg, 888mg
		Oral suspension	2.265%, 2.5%, 5%, 10%, 12.5%, 20%
		Paste	18.75%, 20g
4.	Flubendazole	Oral powder	5%
		Oral suspension	5%, 10%
		Oil emulsion	100mg/g
5.	Mebendazole	Tablet	100mg , 300mg, 600mg
		Oral granules /powder	4%, 10%
		Oral suspension	33.3mg/ml, 166.7mg/ml
		Paste	4g/40g, 200mg/g
6.	Oxybendazole	Bolus	400mg, 2000mg
		Oral powder	5%
		Oral suspension	22.65mg/ml, 50mg/ml, 90.6mg/ml
7.	Oxfendazole	Bolus	1250mg, 1500mg
		Oral suspension	22.65 mg/ml, 90.6mg/ml
8.	Thiabendazole	Oral suspension	176mg/ml



	Eye/ear drop	4% w/v
9. Triclabendazole	Bolus	150mg, 300mg, 900mg, 1800mg, 2700mg
	Oral suspension	5%, 10%, 20%, 24%, 40%

Imidazothiazoles

1. Levamisole	Injection	2mg/ml, 50mg/ml, 75mg/ml, 100mg/ml, 200mg/ml
	Bolus	150mg, 300mg, 600mg, 1g, 1125mg, 1.875g
	Oral powder	10%, 20%, 750mg/g
	Oral suspension	75mg/ml, 30mg/ml, 15mg/ml, 50mg/ml, 100mg/ml, 118mg/ml
	Pour-on	20%
2. Tetramisole	Injection	30mg/ml, 100mg/ml
	Bolus	300mg, 600mg, 1g, 1.2g, 1.5g, 2g
	Oral powder	10%, 20%, 30%

Microcyclic Lactones

1. Abamectin	Injection	10mg/ml
	Tablet	5mg
	Capsule	10mg
	Oral powder	2mg/g
	Oral solution	20mg/ml
	Pour-on	5mg/ml
	Paste	20mg/g



2.	Doramectin	Injection	1%, 10%, 20%, 30%
		Pour-on	5mg/ml
3.	Eprinomectin	Injection	20mg/ml
		Pour-on solution	5mg/ml
4.	Ivermectin	Injection	1%, 2%, 3%
		Tablet/bolus	55mcg, 68mcg, 136mcg, 165mcg, 5mg, 20mg
		Capsule	10mg
		Oral solution	0.02%, 0.08%, 0.1%, 0.2%, 1%
		Oral powder	0.2%, 0.5%
		Solution pour-on	0.5%, 1%
		Paste/gel	0.1%, 0.2%, 1.879%, 8%
5.	Milbemycin oxime	Tablet	4.5mg, 7.1mg, 11.1mg, 17.4mg, 27mg
6.	Moxidectin	Injection	1%, 2%, 10%
		Tablet	30mcg, 68mcg, 136mcg
		Oral solution	0.1%
		Pour-on	0.5%
		Oral gel	18.92mg/g, 20mg/ml

Salicylanilides

1.	Closantel	Injection	5%, 10%
		Oral suspension	50mg/ml, 150mg/ml
2.	Niclosamide	Bolus	500mg, 4g



	Oral powder	75%
	Paste	3g/10g
3. Oxyclozanide	Bolus	340mg, 2700mg
	Oral suspension	34mg/ml
4. Rafoxanide	Injection	7.5mg/ml
	Oral suspension	1%, 2.5%, 3%

Substituted Phenols

1. Bithionol oxide	Bolus	2g
2. Monepantel	Oral solution	25mg/ml
3. Nitroscanate	Tablet	100mg, 500mg
4. Nitroxynil	Injection	25%, 34%, 58.55%

Others

1. Piperazine Citrate	Tablet	50mg, 500mg
	Oral powder	10mg/g, 50mg/g, 100mg/g, 650mg/g, 100%
	Oral suspension	10%, 25%, 40%
2. Praziquantel	Injection	2.5%, 5.68%
	Tablet/bolus	20mg, 50mg, 3125mg
	Oral suspension	2.5%
	Spot-on	20mg
3. Pyrantel Embonate	Oral paste	40%, 43.90%
4. Pyrantel Pamoate	Tablet	22.7mg, 113.5mg



Oral suspension	2.27mg/ml, 4.54mg/ml, 50mg/ml
Paste	9.5%, 171mg/ml, 180mg/ml, 226mg/ml

Combinations

1. Abamectin + Derquantel	Oral solution	1mg+10mg/ml
2. Abamectin + Praziquantel	Paste	3.7mg + 46.3mg/dose
3. Albendazole + Praziquantel	Oral suspension	2.5%+2.5%, 3%+3%, 5%+5%
4. Albendazole + Ivermectin	Bolus	2500mg+100mg, 3000mg+100mg
5. Emodepside + Praziquantel	Spot-on	30mg+7.5mg, 60mg+15mg, 96mg+24mg
6. Febantel + Pyrantel	Tablet	80mg + 20mg
	Oral suspension	15.0mg + 5.0mg/ml
7. Fenbendazole + Levamisole	Oral suspension	2.50%w/v + 3.75%w/v
8. Febendazole + Rafoxanide	Oral suspension	50mg + 50mg/ml
9. Ivermectin + Clorsulon	Injection	1%+10%
10. Ivermectin + Closantel	Solution for injection	5mg+125mg/ml, 5mg+200mg/ml
	Pour-on	5+200mg/ml, 5+125mg/ml
11. Ivermectin + Praziquantel	Injection	1.2% + 12%, 1.2% + 15%
	Bolus	20mg+150mg
	Oral paste	18.7mg/g + 140.3mg/g, 15.5mg+77.5mg
12. Ivermectin + Triclabendazole	Oral suspension	10% + 0.08%, 5%+0.1%
13. Levamisole + Praziquantel	Oral suspension	37.5mg+18.8mg/ml



14.	Levamisole + Bithionoloxide	Oral suspension	1.5% + 8%
15.	Levamisole + Niclosamide	Bolus	150mg + 2250mg, 20mg+40mg
16.	Levamisole + Oxyclozanide	Bolus	0.3g +0.6g, 0.450mg + 0.45mg, 1g +1.4g, 1.5g + 3g, 2g + 1.4g
		Oral suspension	15mg + 30mg/ml, 30mg + 60mg/ml
17.	Levamisole + Rafoxanide	Bolus	1g + 1g
		Oral suspension	1.5% + 3%, 1.5% + 1.5%, 3% + 3%
18.	Levamisole + Triclabendazole	Oral suspension	37.5mg + 50mg/ml, 75mg + 120mg/ml
19.	Milbemycin oxime + Praziquantel	Tablet	4mg+10mg, 2.5mg+25mg, 16mg+40mg, 12.5mg+125mg
20.	Moxidectin+Praziquantel	Oral paste	19.5mg+121.7mg/g
21.	Moxidectin+Triclabendazole	Oral suspension	1mg+50mg/ml, 5mg+200mg/ml
		Pour-on	5mg/ml+200mg/ml
22.	Oxybendazole + Niclosamide	Bolus	350mg + 3650mg
23.	Oxyfendazole + Oxyclozanide	Oral suspension	22.65mg + 62.5mg/ml
24.	Praziquantel+ Fenbendazole	Tablet	50mg + 500mg
25.	Praziquantel + Pyrantel	Tablet	80mg+20mg, 230mg + 20mg, 30mg +345mg
26.	Praziquantel + Pyrantel embonate + Febantel	Tablet	50mg + 144mg + 150mg, 504mg+175mg+525mg, 175mg+175mg+525mg, 50mg+50mg+150mg
27.	Rafoxanide + oxibendazole	Oral suspension	1.5% + 1%



28.	Tetramisole + Oxyclozanide	Bolus	150mg + 300mg, 450mg + 450mg, 2g + 1.4g
		Oral suspension	3% + 3%
29.	Triclabendazole + Rafoxanide	Oral suspension	14.6% + 2.5%

ACARICIDES AND INSECTICIDES

Organophosphates

1.	Chlorfenvinphos	Liquid	10% w/v
2.	Chlorfenvinphos + Phenols	Liquid	10% +30%w/v
3.	Diazinon	Liquid	15%w/v, 16.2%, 20%, 60%, 62%
		Collar	15%w/v
4.	Diazinon + Essential Fatty Acid Ester	Collar	15% + 5%w/v
5.	Diazinon + Phenol	Liquid	16% + 16%w/v
6.	Dichlorovos	Liquid	76%w/v
7.	Famphur	Pour-on	1%, 13.2%
8.	Fenthion	Liquid	20mg/ml, 200mg/ml
9.	Phosmet	Liquid	200mg/ml

Carbamates

1.	Carbaryl	Collar	5%
2.	Propoxur	Spray	0.25%
		Collar	10%



Pyrethroids and Pyrithrines

1.	α -cypermethrin	Pour-on solution	12.5g/L, 15g/L
2.	Cypermethrin	Emulsifiable liquid	5%, 10%w/v
		Powder	25%
		Pour-on solution	1%, 1.25%, 1.5%, 2%, 2.5%, 12.5%
		Collar	8.5%
3.	Cyhalothrin	Emulsifiable liquid	5%
		Pour-on solution	200mg/ml
4.	Deltamethrin	Emulsifiable liquid	5%, 12.5%
		Pour-on solution	0.35%, 0.75%, 1%
		Collar	0.77g, 1.04g, 4%
5.	Fenvalerate	Emulsifiable liquid	10%, 20%
6.	Flumethrin	Emulsifiable liquid	1%, 2%, 6%
7.	Permethrin	Emulsifiable liquid	0.5%
		Dusting powder	1.05%
		Pour-on solution	4%, 65%



Shampoo 0.2%, 1.0%, 1.05%

Collar 18%w/w

Others

1.	Afoxolaner	Tablet	11mg, 28mg, 68mg, 136mg
2.	Amitraz	Liquid	12.5%, 20%
		Powder/granule	12.5%, 25%
		Pour-on	2%w/v
3.	Cyromazine	Pour-on solution	60mg/ml
4.	Dicyclanil	Pour-on suspension	12.5mg/ml, 50mg/ml, 65mg/ml
5.	Fipronil	Spot-on	50mg, 67mg, 75mg, 134mg, 268mg, 402mg, 412.5mg
		Spray	2.5mg/ml
6.	fluralaner	Tablet	112.5mg, 250mg, 500mg, 1000mg, 1400mg
		Oral solution	10mg/ml
		Spot-on solution	112.5mg, 250mg, 500mg, 1000mg, 1400 mg
7.	Imidacloprid	Spot-on solution	40 mg/ml, 80 mg/ml, 100 mg/ml, 150 mg/ml, 250 mg/ml, 400mg/ml
8.	Indoxacarb	Spot-on solution	100mg, 150mg, 200 mg, 300 mg, 600 mg, 900mg
9.	Lotilaner	Tablet	12mg, 48mg, 56mg, 112mg, 225mg,



		450mg, 900mg
10. Sarolaner	Tablet	5mg, 10mg, 20mg, 40mg, 80mg, 120mg
11. Selamectin	Spot-on solution	15mg/ml, 30 mg/ml, 45 mg/ml, 60mg/ml, 120mg/ml, 240 mg/ml, 360 mg/ml

Combinations

1. Dichlorvos + Fenitrothion	Spray	0.2% w/w + 0.8% w/w
2. Fipronil + Permethrin	Spot-on solution	134+1200mg, 26.8+240mg, 268+2400mg, 67+600mg
3. Flumethrin + Imidacloprid	collar	1.25g+0.56g, 4.5g+2.03g
4. Fluralaner+Moxidectin	Spot-on solution	112.5mg+5.6mg, 250mg+12.5mg, 500mg+25mg
5. Imidacloprid + Moxidectin	Spot-on solution	40+4 mg/ml, 80+8 mg/ml, 40+10 mg/ml, 100+10 mg/ml, 100+25 mg/ml, 250+62.5 mg/ml, 400+100mg/ml
6. Imidacloprid + Permethrin	Spot-on solution	100+500mg/ml, 600+3000mg/6ml, 1250mg+250mg, 200mg+40mg, 2000mg+400mg, 500mg+50mg
7. Indoxacarb + Permethrin	Spot-on solution	75mg+240mg, 150mg+480mg, 300mg+960mg, 600mg+1920mg, 900mg+2880mg
8. Sarolaner + Selamectin	Spot-on solution	15mg+2.5mg, 30mg+5mg, 60mg+10mg
9. (S)-Methoprene + Fipronil	Spot-on solution	120mg+240mg/ml, 240mg+480mg/ml, 34mg+68mg, 134 mg+ 120.6 mg , 268 mg+ 241.2 mg , 402 mg+361.8 mg , 50 mg+60, 67 mg+60.3 mg

GASTROINTESTINAL DRUGS

Anti-Diarrheal Drugs

1. Bismuth Salicylate + Sodium Salicylate + Magnesium Trisilicate + Kaolin Oral suspension, 7g + 5g + 3.3g + 10g/100ml
2. Kaolin + Pectin Oral suspension 200mg + 4.3mg/ml
3. Sulphasalazine Tablet 500mg
 Oral suspension 50mg/ml of 500ml

Bloat Remedy

1. Dimeticone Oral suspension 1% , 2%
2. Docusate Oral suspension 240mg
3. Poloxalene Oral suspension 830mg/ml, 55%, 25g/30ml
 Premix 530mg/g
4. Simethicone Oral emulsion 1%

Laxatives

1. Bisacodyl Tablet 5mg
2. Ispaghula HUSK Oral powder 49%, 200g
 Oral granule 90%, 200g
3. Magnesium Hydroxide Mixture Cream 55 mg/ml
4. Magnesium Sulfate (Epson Salt) Injection 25%



	Powder	49%, 90%
5. Paraffin	Oral paste	474 mg/g

Antiulcers and Antiemetics

1	Cimetidine	Tablet	100 mg, 150 mg, 200 mg and 300 mg
2	Maropitant Citrate	Injection	10mg/ml
		Tablet	16mg, 24mg, 60mg, 160mg
3	Metoclopramide	Injection	1mg/ml, 2.5mg/ml, 5mg/ml
		Oral solution	1mg/ml
4	Omeprazole	Oral paste	370mg/g

CARDIOVASCULAR DRUGS

Diuretics

1.	Chlorthiazide	Tablet	500mg
2.	Hydrochlorthiazide	Tablet	25mg
3.	Furosemide	Injection	50mg/ml
		Tablet	10mg, 20mg, 40mg
		Syrup	1%
4.	Mannitol	Injection	10%, 20%, 25%
5.	Methenamine	Powder	10%

CENTRAL NERVOUS SYSTEM DRUGS

Analgesics

1.	Antondine	Injection	30%, 50%
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2.	Buprenorphine Hydrochloride	Injection	0.3mg/ml
3.	Butorphanol	Injection	0.5mg/ml, 5mg/ml, 10mg/ml
		Tablet	1mg, 5mg, 10mg
4.	Detomidine Hydrochloride	Injection	0.5mg/ml, 10mg/ml
		Oral gel	7.6mg/ml
5.	Medetomidine Hydrochloride	Injection	1mg/ml
6.	Methadone Hydrochloride	Injection	5mg/ml, 10mg/ml
		Tablet	5mg, 10mg, 40mg
		Oral suspension	1mg/ml, 2mg/ml
7.	Metamizole Sodium	Injection	10%, 20%, 30%, 150mg/ml, 500mg/ml
8.	Morphine Hydrochloride	Injection	10mg/ml, 15mg/ml, 30mg/ml
9.	Paracetamol	Tablet	150mg
		Oral solution	300mg/ml, 400mg/ml
10.	Pethidine Hydrochloride	Injection	50mg/ml

Steroids

1.	Betamethasone	Injection	2mg/ml
		Tablet	0.25mg
2.	Dexamethasone	Injection	1mg/ml, 2mg/ml, 4mg/ml, 5mg/ml, 10mg/ml
		Tablet	250 mcg, 0.5mg, 2mg
3.	Hydrocortisone	Tablet	20mg
4.	Methylprednisolone	Injection	40mg/ml, 62.5mg/ml



	Tablet	2mg, 4mg
5. Prednisolone Acetate	Injection	10mg/ml, 25mg/ml
	Tablet	1mg, 5mg, 10mg, 20mg, 25mg
	Oral powder	33.3mg/g, 100mg, 300mg, 600mg
	Syrup	3mg/ml

Non-Steroidal Anti-inflammatory Drugs (NSAID)

1. Acetyl Salicylic Acid	Injection	100mg/ml
	Bolus	15.6g, 1.4g
2. Carprofen	Injection	50mg/ml (5% w/v)
	Tablet/capsules	20mg, 25mg, 40mg, 50mg, 75mg, 100mg, 120mg
3. Cyclosporin A	Capsule	10, 25, 50 & 100mg
	Oral solution	100mg/ml
	Eye drop	0.2%, 1%, 2%
4. Cimicoxib	Tablet	8mg, 30mg, 80mg
5. Diclophenac Sodium	Injection	0.1%, 2.5%, 4%, 5%, 10%
6. Firocoxib	Injection	20mg/ml,
	Tablet	57mg
	Oral paste	8.2mg/g
7. Flunixin Meglumine	Injection	50mg/ml
	Pour-on	50mg/ml



	Oral paste	25mg/g, 50mg/g
8. Ketoprofen	Injection	10mg/ml, 100mg/ml, 150mg/ml
	Oral solution	100mg/ml, 300mg/ml
	Tablet	5mg, 12.5mg, 20mg
9. Meloxicam	Injection	2mg/ml, 5mg/ml, 20mg/ml, 30mg/ml, 40mg/ml
	Tablet	1mg, 2.5mg
	Granules	330mg
	Oral suspension	0.5mg/ml, 1.5mg/ml, 15mg/ml
	Oral paste	50mg
10. Pentosan Polysulphate Sodium	Injection	100mg/ml
11. Phenylbutazone	Injection	200mg/ml
	Tablet	25mg, 100mg, 200mg
	Oral powder	1g
	Oral paste	1g
12. Polysulphated glycosaminoglycan	Injection	100 mg/ml, 250 mg/ml
13. Tolfenamic Acid	Injection	2mg/ml, 10mg/ml, 200mg/ml
	Tablet	6mg, 20mg, 60mg
	Oral paste	8.9mg/ml, 35mg/kg

Sedatives

1. Acepromazine Maleate	Injection	0.5mg/ml, 2mg/ml, 10mg/ml
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	Tablet	10mg, 25mg
	Oral paste	8.9mg/ml, 35mg/ml
2. Detomidine Hydrochloride	Injection	10mg/ml
Dexmedetomidine	injection	0.5mg/ml
3. Diazepam	Injection	5mg/ml
4. Medetomidine Hydrochloride	Injection	1mg/ml
5. Pentobarbitone Sodium	Injection	60mg/ml, 200mg/ml
6. Quinalbarbitone Sodium	Injection	400mg/ml
7. Romifidine hydrochloride	Injection	10mg/ml
8. Secobarbital (Quinalbarbitone) Sodium + Cinchocaine Hydrochloride	Injection	400 mg/ml + 25 mg/ml
9. Thiopentone sodium	Powder for injection	2.5g/5g
10. Xylazine	Injection	20mg/ml, 100mg/ml

DRUGS USED IN ANAESTHESIA

General Anaesthetics

1. Alfaxalone	Injection	10mg/ml
2. Atipamezole hydrochloride	Injection	5mg/ml
3. Atropine sulphate	Injection	600mcg/ml, 1mg/ml
4. Ether	Inhalation	100g, 250g
5. Halothane	Inhalation	250ml, 0.05%
6. Isoflurane	Inhalation	1000mg/g



7.	Ketamine Hydrochloride	Injection	10mg/ml, 50mg/ml, 100mg/ml
8.	Methohexitone Sodium	Powder for injection	500mg(25mg/ml)
9.	Propofol	Injection	10mg/ml
10.	Sevoflurane	Inhalation	100% v/v

Local Anaesthetics

1.	Lidocaine Hydrochloride	Injection	20mg/ml
		Oral spray	20mg/ml
2.	Lidocaine + Adrenaline	Injection	40mg + 20mcg/ml, 20mg + 10mcg/ml
3.	Lidocaine Hydrochloride + Noradrenaline	Injection	20mg + 0.08mg/ml
4.	Lidocaine Hydrochloride + Epinephrine Acid Tartrate	Injection	2%
5.	Mepivacaine	Injection	20mg/ml
6.	Procaine Hydrochloride + Epinephrine Acid Tartrate	Injection	40 mg/ml + 0.036 mg/ml

DRUGS USED IN ENDOCRINE DISORDERS

Hormonal Preparations

1.	Buserelin	Injection solution	0.004mg/ml
2.	Chorionic Gonadotropin + Estradiol Benzoate	Injection	200 IU + 1mg/ml
3.	Cloprostenol Sodium	Injection	250mcg/ml, 0.075mg/ml, 0.0875mg/ml
4.	Dinoprost	Injection	5mg/ml, 12.5mg/ml
5.	Equine Chorionic	Injection	100000IU



Gonadotropin		
6. Gonadotropin Releasing Hormone	Injection	4mcg/ml, 0.05mg/ml,
7. Gonadorelin	Injection	50 µg/ml, 52.4 µg/ml
8. Luprostiol	Injection	7.5 mg/ml
9. Megestrol Acetate	Tablet	5mg, 10mg, 20mg, 40mg
10. Methylpropionate	Injection	5mg/ml
11. Oestradiol Benzoate	Injection	5mg/ml
12. Oxytocin	Injection	10 IU/ml
13. Progesterone	Injection	25mg/ml, 30mg/ml
	Vaginal delivery	0.35g, 1.38g, 1.55g
14. Serum Gonadotrophin	Powder for injection	500 unit, 1000 unit, 5000IU
15. Testosterone	Injection	10mg/ml, 100mg /ml

BLOOD PRODUCTS AND DRUGS AFFECTING THE BLOOD

Anticoagulants

1. Heparin sodium	Injection	10units/ml, 1000 units/ml, 5000 units/ml
2. Warfarin sodium	Tablet	1mg, 3mg, 5mg
3. Vitamin K	Injection	2mg/ml, 10mg/ml

FLUIDS AND ELECTROLYTES FOR METABOLIC DISORDER

1. Almunium chloride + Magensium sulphate + Sodium sulphate + Sorbitol	Oral powder	44.5g+25g+25g+5g/100g
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2.	Bismuth Salysilate + Sodium Salysilate + Magnesium Trisalysilate + Kaoli	Oral suspension	7g + 5g + 3.3g + 10g/100ml
3.	Calcium Borogluconate + Magnesium Hypophosphate	Injectable solution	40% w/v + 5% w/v
4.	Calcium Borogluconate + Boric Acid + Magnesium Chloride + Caffeine Monohydrate	Injection	249mg + 51mg + 40mg + 1mg/ml
5.	Calcium Borogluconate + Calcium Oxide + Magnesium Chloride	Injectable solution	63g + 3.4g + 16.75g/450ml
6.	Calcium borogluconate + Sodium hypophosphate + Magnesium Chloride	Injection	230mg+28mg+45mg
7.	Calcium Gluconate + Boric Acid	Injection	1.854%w/v + 4.25%, 16.6% w/v + 3.4%, 40% + 6.8%w/v
8.	Calcium Gluconate + Boric Acid + Dextrose Monohydrate + Magnesium Hypophosphate	Injection	16.6% + 3.4% + 22% + 5%
9.	Calcium Gluconate + Boric Acid + Magnesium Hypophosphate	Injection	1.8%w/v + 4.21% w/v + 5%w/v, 33.33%+6.84%+5%
10.	Calcium Gluconate + Magnesium Chloride	Injection	178mg +35.5mg per ml, 125mg + 35mg per ml, 200mg + 60mg per ml
11.	Calcium Gluconate +	Injection	20mg + 60mg + 75.8mg



	Magnesium Chloride + Sodium Glycerol Phosphate		
12.	Dextrose	IV infusion	5%, 10%, 20%, 15.73%, 25%, 40%,
13.	Iron Dextrose + Vit B12	Injection	10% + 100ug
14.	Dextrose + Sodium chloride	IV infusion	10% + 0.9%
15.	Dextrose + Sodium Chloride + Potassium Chloride + Calcium Chloride (dihydrate) + Sodium Lactate	IV infusion	20g + 0.6g + 0.04g + 0.027g + 0.312g/100ml
16.	Glucose monohydrate	Injection	5g/100ml
	Oxalinic Acid +Sodium bicarbonate + Dextrose	Powder	1% + 5% + 3.85%
17.	Propionic Acid + Sodiumhydrate carbonate + Paracetamol + Glucose	Powder	37.5% + 37.5% + 12.5% + 12.5%
18.	Sodium Bicarbonate + Sodium Chloride + Potassium Chloride + Dextrose Monohydrate	Powder	12.8g + 16.5g + 2g + 68.7g/100g

VITAMINS, MINERALS, AMINOACIDS AND FATTY ACIDS

1.	Bismuth subnitrate	Intramammary suspension	2.6g/4g syringe
2.	Calcium borogluconate	Injection	12.5%, 25%
3.	Copper oxide	Capsule	2g, 4g, 24g
4.	Calcium borogluconate + Magnesium hypophosphite	Injection	400 mg+50 mg/ml



hexahydrate

5.	Calcium monohydrate gluconate + magnesium glycerophosphate + magnesium chloride hexahydrate + anhydrous glucose + anhydrous caffeine	Solution for Injection	40%+1%+3%+5%+0.4%
6.	Copper methionate	Suspension for injection	20mg/ml
7.	Copper oxide	Bolus	2g,4g,27g
8.	Cyanocobalamin	Injection	0.1%, 0.025%, 0.05%
9.	Glucose Anhydrous	Injection	40%
10.	Selenium +Copper + Manganese +Zinc	Solution for injection	5mg/ml + 15mg/ml +10mg/ml + 60mg/ml
11.	Selenium +Cobalt+ Copper	intraruminal device	0.3g/100g +0.5 g/100g+13.4g/100g bolus
12.	Selenium + Tocopheryl acetate (Vit E)	Suspension for injection	1.5mg/ml + 68mg/ml
13.	Toldimphos sodium	Injection	20%
14.	Zinc oxide	Premix	1000mg/g
15.	Copper heptonate	Paste	100mg
16.	Iron	Injection	100mg/ml, 150mg/ml, 200mg/ml
17.	Vit. A + Vit.D3 + Vit. E + Vit. B1 +Vit.K + Vit. B6 + Vit. B12 + Vit.C	Powder	500,000IU + 200,000IU + 200mg + 200mg + 200mg + 200mg + 400g + 1g



18.	Magnesium sulfate	Injection	25%w/v
19.	Vitamin A + Vitamin D + Vitamin E + Vitamin B1 + Vitamin K + Nicotin Amide + Riboflavine Phosphate + Panthothenic Acid + Lactose	Powder	0.4% + 0.036% + 0.02% + 0.036% + 1.2% + 0.25% + 0.4% + 2.3%
20.	Vitamin A + Vitamin D + vitamin E + Vitamin K + Vitamin B12 + D-Ca Panthothenate + Nicotin Amide + Methionine + Lysine	Powder	500,000IU + 80,000IU + 150IU + 150mg + 300mcg + 750mg + 1500mg + 3500mg + 5500mg + Lactose to 100g

*Any other vitamins, minerals, amino acids, and their combinations with veterinary importance are acceptable

ANTI DOTES AND OTHER SUBSTANCES USED IN POISONING

1.	Activated Carbon + Kaolin	Granules	475g + 100g
		Oral suspension	104mg/ml + 62.5mg/ml
2.	Atropine sulfate	Injection	15mg/ml
3.	Epinephrine	Injection	1mg/ml
4.	Nalorphine hydrochloride	Injection	5mg/ml
5.	Sodium thiosulfate + Brilliant Blue	Bolus	1.51g+1.25g
6.	Yohimbine hydrochloride	Injection	2mg/ml

ANTISEPTICS AND DISINFECTANTS

1. Ammonium Oxalate



2. Chlorhexidine
3. Chlorhexidine + isopropanol
4. Chlorhexidine Gluconate + Cetrimide
5. Chlorhexidine Gluconate + Glycerin
6. Chlorine Compound
7. Crystal Violet
8. Ethanol
9. Ethylene oxides
10. Formaldehyde
11. Glutaraldehyde
12. Hydrochloric Acid
13. Hydrogen peroxide
14. Iodine Compound
15. Iodine Solution
16. Iodine tincture
17. Iodophores
18. Isopropanol
19. Lactic acid
20. Orthophthaldehyde
21. Peracetic acid
22. Peracetic acid + hydrogen peroxide

23. Phenol Compound
24. Potassium Dicarbonate
25. Potassium Iodide
26. Potassium permanganate
27. Potassium peroxymonosulfate
28. Propylene oxides
29. Quaternary ammonium compounds
30. Quaternary ammonium + glutaraldehyde
31. Sodium Chloride
32. Sodium hypochlorite solutions
33. Sodium perborate
34. Sulphuric Acid
35. Zinc Oxide ointment

MISCELLANEOUS

- | | | |
|------------------------------|------------------------|--------|
| 1. Apomorphine Hydrochloride | Solution for injection | 1mg/ml |
| 2. Benzyl Alcohol | Liquid | 4% w/w |
| 3. Bromhexine Hydrochloride | Oral powder | 10mg/g |



4.	Clenbuterol hydrochloride	Oral syrup	25 mcg/ml
5.	Clodronic acid	Injection	51mg/ml
6.	Denaverine	Solution for injection	40mg/ml
7.	Doxapram	Solution for injection	20mg/ml
8.	Hyoscine Butylbromide	Solution for injection	20mg/ml
9.	Pentobarbital Sodium	Solution for injection	200mg/ml, 300mg/ml, 400mg/ml, 500mg/ml
10.	Propylene Glycol + Cobalt Sulfate	Injection	80% v/v + 0.10% w/v
11.	Sodium Hyaluronate	Injection	10mg/ml, 17mg/ml
12.	Sodium hydroxide	Cutaneous paste	42.7%w/w
13.	Strychnine	Oral powder	
14.	Tetanus anti-toxin		
15.	Water for Injection		

VACCINES

Viral Vaccines

Disease	Microbial Agent	Species
1. African Horse Sickness	<i>African Horse Sickness virus</i>	Horses
2. Bovine Viral Diarrhoea	<i>Bovine Viral Diarrhoea virus</i>	Cattle



3.	Calf diarrhoea	<i>Bovine Coronavirus</i>	Cattle
4.	Calf diarrhoea	<i>Bovine Rotavirus</i>	Cattle
5.	Camel Pox	<i>Pox virus</i>	Camel
6.	Canine Distemper	<i>Canine Distemper Virus</i>	Dogs
7.	Canine Parvovirus Enteritis	<i>Canine Parvovirus</i>	Dogs
8.	Contagious Ecthyma	<i>Parapoxovirus</i>	Goats, Sheep
9.	Equine Herpesvirus disease	<i>Equine Herpesvirus EHV-1</i>	Horses, Donkeys
10.	Feline Calicivirosis	<i>Feline Calicivirus</i>	Cats
11.	Feline Panleukopenia	<i>Feline Panleukopenia virus</i>	Cats
12.	Feline Rhinotracheitis	<i>Feline Rhinotracheitis virus</i>	Cats
13.	Foot and mouth disease	<i>Aphthovirus</i>	Cattle, Sheep, Goats
14.	Fowl Pox	<i>Fowl Poxvirus</i>	Poultry
15.	Infectious Bovine Rhinotracheitis	<i>Bovine herpesvirus</i>	Cattle
16.	Infectious Bronchitis Virus	<i>Infectious Bronchitis Virus</i>	Poultry
17.	Infectious Bursal disease (Gumboro disease)	<i>Infectious Bursal disease virus</i>	Poultry
18.	Infectious Laryngo-tracheitis	<i>Infectious Laryngo-tracheitis virus</i>	Poultry
19.	Lumpy Skin Disease	<i>Capripoxvirus</i>	Cattle
20.	Marek's disease	<i>Marek's disease virus</i>	Poultry
21.	Newcastle disease	<i>Newcastle disease virus</i>	Poultry



22.	Peste des Petits Ruminants	<i>Morbillivirus</i>	Sheep, Goats
23.	Rabies	<i>Lyssaviruses</i>	Dogs, cats, equines
24.	Sheep and goat pox	<i>Sheep and goat pox viruses</i>	Sheep

Bacterial Vaccines

1.	Anthrax	<i>Bacillus anthracis</i>	Cattle, Goats, Sheep, Equine
2.	Bacillary haemoglobinuria	<i>Clostridium hemolyticum</i>	Cattle, Sheep
3.	Black disease	<i>Clostridium novyi</i>	Cattle, Sheep, Goats
4.	Blackleg	<i>Clostridium chauvoei</i>	Cattle, Sheep, Goats
5.	Botulism	<i>Clostridium botulinum</i>	Cattle
6.	Bovine Pasteurellosis	<i>Pasteurella multocida</i>	Cattle
7.	Brucellosis	<i>Brucella mellitensis</i>	Sheep
8.	Brucellosis	<i>Brucella abortus</i>	Cattle
9.	Calf diarrhoea	<i>Escherichia coli</i>	Cattle
10.	Caseous lymphadenitis	<i>Corynebacterium pseudotuberculosis</i>	Sheep, Goats
11.	Chronic respiratory disease/Infectious sinusitis	<i>Mycoplasma gallisepticum</i>	Poultry
12.	Clostridiosis	<i>Different Clostridium perfringens</i>	Sheep
13.	Contagious Bovine Pleuropneumonia	<i>Mycoplasma mycoides</i>	Cattle
14.	Contagious Caprine Pleuropneumonia	<i>Mycoplasma capricolum</i>	Goats



15. Footrot	<i>Dichelobacter nodosus</i>	Cattle, Sheep, Goats
16. Fowl Cholera	<i>Pasteurella multocida</i>	Poultry
17. Fowl Typhoid	<i>Salmonella gallinarum</i>	Poultry
18. Infectious Bovine Keratitis	<i>Moraxella bovis</i>	Cattle
19. Infectious Coryza	<i>Avibacterium (Haemophilus) paragallinarum</i>	Poultry
20. Leptospirosis	<i>Leptospira spp</i>	Cattle, sheep, dog, cat
21. Malignant oedema	<i>Clostridium septicum</i>	Sheep
22. Mannheimia haemolytica (pneumonia)	<i>Pasteurella (Mannheimia) haemolytica</i>	Cattle, Sheep
23. Mastitis	<i>Staphylococcus aureus,</i> <i>Staphylococcus aggalactacia</i>	Cattle, Sheep, Goats
24. Ovine pasteurellosis	<i>Pasteurella multocida</i>	Sheep
25. Paratuberculosis	<i>Mycobacterium paratuberculosis</i>	All
26. Salmonellosis	<i>Different Salmonella spp.</i>	Cattle, Sheep, Poultry
27. Strangles	<i>Streptococcus equi</i>	Equine
28. Tetanus	<i>Clostridium tetani</i> toxoid	Equine

Protozoal Vaccines

1. Anaplasmosis	<i>Anaplasma marginale</i> <i>Anaplasma caudatum</i> <i>Anaplasma centrale</i>	Cattle
2. Babesiosis	<i>Babesia bovis</i>	Cattle



3. Coccidiosis	<i>Eimeria spp.</i>	Poultry, Cattle, Sheep & Goat
4. Heartwater disease	<i>Cowdria ruminantum</i>	Cattle, Sheep
5. Toxoplasmosis	<i>Toxoplasma gondii</i>	Sheep, Goats

Fungal Vaccines

1. Aspergillosis	<i>Aspergillus fumigates</i>	Poultry
2. Dermathophytosis (Ring Worm)	<i>Trychophyton verrucosum</i>	Cattle
3. Epizootic lymphangitis	<i>Histoplasma farciminosum</i>	Equine

*Any clinically approved combination of the above vaccines is acceptable



Annexes

Table 1: List of drugs restricted from use in food producing animal species (FPS)

Active substance	Reasons
Chloramphenicol	Prohibited for use in FPS
Chlorasol	No MRL
Clopidol	No MRL
Ethinylestradiol	Concerns regarding environmental impact
Ethopabate	No MRL
Flucloxacillin	No MRL
Furaltadone Furazolidone Nitrofurazone Metronidazole	Prohibited for use in FPS
Genitian Violet	CODEX states that it is not possible to determine safe level of residues, as none is acceptable, so not for FPS
Griseofulvin	No MRL
Homidium	No MRL
Lidocaine	No MRL for FPS – genotoxic metabolite
Phenylbutazone	Inherent toxicity to humans
Quinapramine	No MRL - lots of resistance



Prescription Paper

Veterinary Prescription Paper

Ser.No, __000000

Name and Level of Animal Health Institution _____

Address Region _____ Zone _____ Woreda _____ Town _____ Tel _____

Owner's Name _____

Address Region _____ Town _____ Woreda _____ Keble _____ locality _____

Species of animal _____ Age _____ Sex _____ Body weight _____

ID No. _____ Case No. _____

Diagnosis _____

Treatment given (name, strength, dosage form, dosage and quantity of drug)	Price of Each item	
	Birr	Cent

Refill _____ Withdrawal period _____

Prescriber's _____ Dispenser's _____

Name _____

Qualification _____

Registration No. _____

Signature _____

Date _____



Table 2: List of validation workshop participants

S/N	Name	Organization
1.	Girma Moges	East African Pharmaceuticals factory
2.	Abdo Sultan	East African Pharmaceuticals factory
3.	Behailu Tefera	Animal health professionals association
4.	Dr. Fasil Awol	Ethiopian Veterinary Association
5.	Dr. Desalegn Jarso	Oromia Region
6.	Dr. Yohannes Getnet	SumJohn Importer
7.	Dr. Hailu Mellese	Gasco Trading Plc
8.	Dr. Truneh Zerihun	Agtech Importer
9.	Dr. Sileshi Mekonnen	Abyssinia Agro Vet
10.	Dr. Getahun Kassaye	Marcos Plc
11.	Dr. Fitsum Alemayehu	Biotech Plc
12.	Dr. Abera Bereda	Welin Trading
13.	Dr. Mebratu Ambelu	Asefash Vet Drug Wholesale
14.	Dr. Eyuel Tsegaye	Hawetu Importer
15.	Dr. Tadesse Gutta	Ethiopian Meat & Dairy Industry Dev't Institute
16.	Dr. Hassan Abdi Arog	Somali Region
17.	Dr. Gizachew Abera	Ethio chicken
18.	Dr. Kenenet Atnafu	National Veterinary Institute
19.	Dr. Reta Tesfaye	SPAN Ethiopia
20.	Dr. Solomon Tarekegn	Alema Farms
21.	Dr. Amare Abota	SNNP Region
22.	Dr. Bojia Endebu	Donkey Sanctuary Ethiopia
23.	Dr. Lealemselam Nega	MoA/Epidemiology Directorate
24.	Dr. Abeba Demisse	Adamitulu Pesticide Processing Factory
25.	Melaku Chalachew	Amhara Region
26.	Dr. Yonas Alemayehu	MoA/Disease Prevention and Con
27.	Takele Beyene	AAU-CVMA
28.	Dr. Jemere Bekelle	Hawassa University



29.	Dr. Gijs Van't Klooster	FAO
30.	Tenaw Andualem	FAO
31.	Isaac Njoro Thendiu	IFC/WB
32.	Dr. Amanuel Assefa	IFC/WB
33.	Noel M Joseph	UK-VMD
34.	Victoria Herbert	UK-VMD
35.	Dr. Terzu Daya	VDFACA
36.	Dr. Solomon Kebede	VDFACA
37.	Dr. Hailu Zeru	VDFACA
38.	Dr. Hayat Seid	VDFACA

