



Ministry of Agriculture, Animal Industry and Fisheries
(MAAIF)



REPUBLIC OF UGANDA

**Essential Veterinary Medicines List for
Uganda
2020**

Essential Veterinary Medicines List for Uganda (EVMLU)

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FOREWORD

The *National Agricultural Policy, 2013* of the Republic of Uganda affirms the country's resolve to transform subsistence farming to sustainable commercial agriculture to create a competitive, profitable, and sustainable agricultural sector. The Ministry acknowledges the important contribution of the pharmaceutical sector to achieving its mission and vision through availing quality, efficacious and safe veterinary medicines for the Ugandan farmers.

The Essential Veterinary Medicines List for Uganda 2020 (EVMLU, 2020) is an update of the 2001 edition. It reflects the policy of the Ministry to provide oversight of the veterinary pharmaceutical supply chain to ensure safe, efficacious, and quality veterinary medicinal products (VMPs) in Uganda.

The EVMLU, 2020 was compiled based on a comprehensive multi-stakeholder consultative process and expert review of evidence-based literature on VMPs and technical guidance from the World Organization for Animal Health (OIE), the Food and Agriculture Organization of the United Nations (FAO), the World Health Organization (WHO), National Drug Authority (NDA), Uganda Veterinary Board (UVB) and relevant Ministry technical documents. The goal was to include all VMPs needed to treat common conditions encountered in livestock production and to provide important labels for VMPs used as antimicrobials in Uganda.

The Ministry hopes that the updated essential veterinary medicines list will be used by all animal health stakeholders involved in the VMP chain, from marketing authorisation to raw materials, manufacturing, distribution, and quality control to ensure the availability and use of quality, safe, efficacious, and cost-effective VMPs in Uganda.

I wish to thank all the people who contributed to the development of this EVMLU, particularly the staff members from the Directorate of Animal Resources, the Veterinary Medicines Desk of the department of animal health, technical experts, government institutions, animal health sector partners, veterinary professionals and paraprofessionals, and all animal health stakeholders for their various inputs that led to the successful review and update of this policy document. In a special way I want to thank our partners the USAID funded Medicines Technologies and Pharmaceutical Services Program (MTaPS) for the technical and

Foreword

logistical support they provided towards the production of this document.

For God and My Country,

A handwritten signature in black ink, appearing to read "Vincent Bamulangaki Ssemujja".

Vincent Bamulangaki Ssemujja (MP)
Minister of Agriculture, Animal Industry and Fisheries,
Republic of Uganda.

PREFACE

The Essential Veterinary Medicines Lists for Uganda (EVMLU) 2020 is a government-approved, selective list of safe, efficacious, and cost-effective veterinary medicines that treat most common diseases and health conditions that affect animals, including wildlife (WL) in Uganda.

Adequate availability to effective essential veterinary medicines is central to creating a competitive, profitable, and sustainable agricultural sector. The agricultural sector is critical to Uganda to sustain food security as well as food safety and livelihoods in households.

The EVMLU provides a basis for prioritizing the selection of veterinary medicines at different points in the pharmaceutical supply chain system. It adds perspective to decisions about granting marketing authorization, importation, distribution, purchasing by the different entities and actors, and local production. The presence of a restricted list of carefully selected veterinary medicines in a complex pharmaceutical supply system enables the provision of higher quality animal health services.

This is the second edition of the *Essential Veterinary Medicines List of Uganda*. It is envisaged that it will be widely disseminated and used and that it will become a useful resource for actors to prioritize along the veterinary medicine supply chain.

All relevant government ministries, departments, agencies (such as the NDA and Uganda Wildlife Authority [UWA]), local governments, and other parastatals must apply and promote these principles. Also, veterinarians and other veterinary practitioners, pharmacists, and livestock keepers must apply these principles.

The Directorate of Animal Resources, MAAIF, is enormously grateful to the technical team of Dr. Dominic Mundrugo-ogo Lali, Dr. Patrick Vudriko, and Dr. Freddy Eric Kitutu and institutions of Makerere University and the MTaPS Program, implemented by MSH, for their work in producing this document.

The EVMLU 2020 follows the 2001 edition and includes the medicines required for managing common illnesses in the animal sector in Uganda. The process of review and update involved a desk review of relevant

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literature, including veterinary medicine formularies from South Africa, the United States, and Europe, and consultations with multiple stakeholders; it was based on principles of evidence-based treatment recommendations, comparative cost-effectiveness, current MAAIF policies, and international recommendations.

The EVMLU 2020 consists of two sections: Section A contains introductory material that describes the structure of the EVMLU and flags key developments in the broad area of veterinary medicines, such as using antimicrobials in animal health; Section B presents the essential veterinary medicines list. The medicines are categorised by therapeutic groups. The EVMLU also states whether the medicinal product can be used in the clinic or clinical practice.

Given the dynamic nature of veterinary therapeutics, standard animal treatment guidelines and essential veterinary medicines lists need to be regularly updated to maintain their credibility and relevance. Veterinary surgeons, practitioners, and users are thus encouraged to submit any recommendations that can improve or update these guidelines to the MAAIF.

We hope that all actors in the pharmaceutical supply chain for veterinary medicines will commit to using the EVMLU 2020 to promote judicious use of available resources, equitable availability, and affordability of quality medicines and to prevent adverse consequences, such as developing antimicrobial resistance.



Dr. Juliet Sentumbwe

Director Animal Resources

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We hereby thank the USAID MTaPS Program for their financial support in developing the EVMLU 2020. The Department of Animal Health, Directorate of Animal Resources, MAAIF gratefully acknowledges the technical assistance, guidance, and constructive comments provided by all stakeholders during the development process.

Special thanks go to the technical team—Dr. Dominic Venture Mundrugo-ogo Lali, Dr. Patrick Vudriko, and Dr. Freddy Eric Kitutu—and to institutions—Makerere University School of Public Health, Pharmacy Department, School of Health Sciences; Makerere University College of Health Sciences; and Makerere University College of Veterinary Medicine, Animal Resources, and Biosecurity (MakCOVAB)—for their tireless efforts in the review and development of the EVMLU 2020.

We also extend sincere gratitude to all other government agencies—NDA, National Agricultural Research Organization, UWA, Uganda Wildlife Education Center, NARGRC&DB, and Dairy Development Authority—that cooperated extensively to ensure that the development of the EVMLU occurred and that the final document is in line with national and international policies and practices.

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ABBREVIATIONS AND UNITS

µg	microgram = 0.001 mg
AAHO	assistant animal husbandry officer
BP (Vet)	British Pharmacopoeia (Veterinary)
bw	body weight
CFU	colony-forming units
DVO	district veterinary officer
<i>E. coli</i>	<i>Escherichia coli</i>
EID ₅₀	Statistically determined quantity of a virus that may be expected to infect 50% of fertilized eggs inoculated with it
EVDLU	Essential Veterinary Drug List of Uganda 2001
EVMLU	Essential Veterinary Medicines List of Uganda 2020
FAO	Food and Agriculture Organization
g	gram = 1,000 mg = 0.001 kg
HCl	hydrochloride
IM	intramuscular
IU	international unit
IV	intravenous
L	liter = 1,000 mL
m/m	mass by mass
MAAIF	Ministry of Agriculture, Animal Industry, and Fisheries
MakCOVAB	Makerere University College of Veterinary Medicine, Animal Resources, and Biosecurity
mg	milligram = 1,000 µg
mL	milliliter = 0.001 L
MSH	Management Science for Health
MTaPS	Medicines, Technologies, and Pharmaceutical Services
NDA	National Drug Authority
OIE	World Organization for Animal Health
oint	ointment
PFI	powder for injectable
PFR	powder for reconstitution
ppm	particles per million
psi	pounds per square inch

Abbreviations and units

R	restricted
SC	subcutaneous
SDG	Sustainable Development Goals
susp	suspension
TCID ₅₀	Statistically determined quantity of a virus that may be expected to infect 50% of tissue culture
USAID	US Agency for International Development
UWA	Uganda Wildlife Authority
VMP	veterinary medicinal product
VO	veterinary officer
vp	viral particles
WHO	World Health Organization
WL	wildlife

SECTION ONE

1 Introduction

This update document contains the Essential Veterinary Medicines List for Uganda (EVMLU) 2020, which replaces the Essential Veterinary Drug List for Uganda (EVDLU) of 2001.

1.1 Essential Veterinary Medicine Concept

In general, the concept of essential medicines has been accepted worldwide as a powerful tool to promote health equity, and its impact is remarkable as essential medicines have proved to be one of the most cost-effective elements in health care. They are selected with due regard to relevance, evidence on efficacy and safety, and comparative cost-effectiveness. In veterinary care, this same important concept has been used to develop the list in this document. Essential veterinary medicines are those that satisfy the priority veterinary care needs of the animal population. In this regard, essential veterinary medicines are intended to be available within the context of functioning veterinary service systems at all times in adequate amounts, in the appropriate dosage forms, with assured quality and adequate information, and at the lowest cost to the animal owners at the individual and community levels. Implementing the concept of essential veterinary medicines is intended to be flexible and adaptable to many different situations, whereby medicines regarded as essential remain a national responsibility. It is through careful selection of a limited range of essential veterinary medicines that the needs of a higher quality of care, better management of veterinary medicines (including improved quality of prescribed medicines), and a more cost-effective use of available veterinary care resources can be realized.

1.2 Basis for Reviewing EVDLU 2001

Since independence, the first EVDLU was published in 2001 by the NDA. Given the rapidly changing patterns of diseases and increasing cases of

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emerging and re-emerging diseases, changes in treatment regimes, and new approaches, treatment protocols, and therapeutic products continuously entering the market—in addition to the transition to the global agenda in animal health care and safety of foods of animal origin—the review is long overdue. This new document is an effort to review, update, and align the list of veterinary medicinal products with the global agenda of Sustainable Development Goals (SDGs), especially goals 1, 2, 3, 9, 12, 13, and 15. In this regard, access to medicines and vaccines is one of the cornerstones of the basic veterinary and animal health care package, which is essential for achieving some of the listed targets in health-related and economy-related SDGs.

1.3 Purpose of the EVMLU 2020

The draft EVMLU is a key tool that should effectively be used to promote access to essential medicines, and, through their correct selection, management and use to achieve maximum therapeutic benefit and optimize animal patient outcomes. It is a good guide to policy in areas and activities that support objectives, such as training, quality assurance, financing and insurance, regulation and monitoring, appropriate use (including control of antimicrobial resistance), operational research, and local production. It is intended to guide medicine development, production, procurement and supply, prescribing, dispensing and use, monitoring and evaluation, and enhancing appropriate medicine use. It should also be used by all specialists in animal health care and regulatory services and students in animal health care service provision.

The EVMLU 2020 is expected to be fully responsive to the aims and objectives of national animal health policies and strategies and incorporate the most current guidance to address the burden of infectious diseases. In addition, particular attention is being paid to medicines to manage emerging diseases. The array of veterinary medicines and pesticides available is constantly changing as new products come onto the market and old ones disappear. The evidence for listing medicines on the draft EVMLU 2020 has been derived from global and regional standards. Therefore, the selection of items listed is

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well justified and suitably adapted to the prevailing animal health context. Reference has been made to the OIE resolution no. 25 of 2009 on the establishment and effective implementation of adequate and appropriate legislation covering all aspects of products for veterinary use, including registration, quality control, distribution and final use, and the FAO recommendation on quality, safety, and efficacy (or effectiveness) as the three main concerns of veterinary drug control.

The judicious use of drugs, vaccines, and other veterinary products can be a means of controlling threats to the health and welfare of animals. The emergence of new diseases, climate change, the spread of existing diseases to new geographical areas, and a greater understanding of the convergence of human and animal health (One World, One Health concept) are all important factors considered in developing the list. These conditions demand greater availability of safe, effective, high-quality veterinary medicines. These conditions, coupled with the prediction that the global demand for livestock production is expected to double by 2050, require ever more effective control of animal diseases, underpinned by the need for a positive environment for investment and innovation in the development of new medicines and support for those already authorized.

1.4 Presentation of Information in the EVMLU

Medicines on the EVMLU are listed by broad therapeutic categories (sections). Within each section, medicines appear in alphabetical order with the mode of administration, strength/packaging, and appropriate usage. The listing does not imply preference for one medicine over another. The level of use indicates the lowest level of the animal health care delivery system at which each medicine may reasonably be expected to be used (i.e., after correct diagnosis and a correct decision on management of the condition according to current best therapeutic practice). It is thus the *lowest level* at which the medicine is expected to be available (i.e., distributed, stored, prescribed, and dispensed).

The recommended levels in this listing in order of levels are practice, clinic, and restricted.

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1.5 Changes in the EVMLU 2020

Since 2001, new drugs and vaccine molecules or formulations have been introduced on the market for veterinary use. In the same way, old molecules have either been removed due to safety concerns or repurposed. Drugs that have been banned internationally have been listed in the section on drugs removed from the EVDLU 2001. Most importantly, the use of antimicrobials in food animal health has been under global scrutiny due to the threat posed by antimicrobial resistance. Thus, the purpose and use of highly critical antimicrobials based on joint OIE-FAO-WHO criteria has been revised. The current edition of the EVMLU has therefore taken into consideration all the above changes to promote appropriate prescription and use of veterinary medicines in animal health and production. In the EVMLU 2020, three new sections have been introduced for special veterinary practice: drugs used in WL practice, fish health and production, and apiary.

1.6 New Essential Drugs/Formulations included in the EVMLU 2020

Drug	Dosage form	Strength	Use
Afoxolaner	Oral/tablet	11.3 mg 13.6 mg 28.3 mg 68 mg	Clinic (dogs)
Afoxolaner milbemycin oxime	Oral/chewable tablet	9 mg/2 mg 19 mg/4 mg 38 mg/8 mg 75 mg/15 mg 150 mg/30 mg	Clinic (dogs)
Aglepristone	Injectable	30 mg/mL	Clinic (dogs)
Alfaxalone	Injectable	10 mg/mL	Clinic
Alphamethrin + cypermethrin + tetrachlorvinphos + piperonyl butoxide	Pour on	0.5% m/m + 1% m/m + 2% m/m + 7.5% m/m	Clinic
Altrenogest	Oral	4 mg/mL	Practice (swine)

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Drug	Dosage form	Strength	Use
Amitraz	Emulsified concentrate		Bees
	Strip	.5 g/strip	Bees
Amitraz + cypermethrin + piperonyl butoxide	Pour on	1% m/v +	Practice
		1% m/v +	
		5% m/v	
Ammonium chloride + glacial acetic acid + sucrose synergist	Oral	100 mg/mL +	Practice
		100 mg/mL +	
		100% liquid	
Antivenin (polyvalent)	Injectable	10 mL vial	Clinic/practice
Aspirin	Oral tablet	65 mg	Clinic/practice
		81 mg	
		325 mg	
		500 mg	
Aureomycin chlortetracycline	In feeds	77 g/kg	Practice (R)
		100 g/kg	
Avilamycin	Premix (in feed)	10% m/m	Practice (R)
Bambermycin	Premix (in feed)	20 g/kg	Practice (R)
Benazepril HCl	Oral	5 mg, 20 mg	Clinic
Benzoyl peroxide	Topical	2.5% shampoo	Clinic/practice
Betamethasone + fusidic acid	Topical		Clinic
Betamethasone + gentamicin + clotrimazole	Topical		Clinic
Bovine somatotrophin	Injectable	500 mg/2 mL	Practice
Buprenorphine	Injectable	5 mg/ML	WL
Calcium fosfomycin	Premix (in feed & water)	25% m/m	Practice (R)
Canthaxanthin	Oral	8 mg/kg of feed for layers	Clinic
		25 mg/kg feed for broilers, salmon, trout	
Cefovecin	Injectable (powder & diluent)	8 mg/kg bw	Clinic (R)
Cefquinome sulfate	Injectable	25 mg/mL	Practice (R)

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Drug	Dosage form	Strength	Use
Ceftiofur	Injectable	50 mg/mL	Clinic/practice (R)
Cephalonium	Intramammary injectable	250 mg	Practice (R)
Cephapirin	Intramammary injectable	300 mg/10 mL	Practice (R)
Chitosan + chondroitin sulfate (20 kDa)	Oral	225 mg + 225 mg/tablet	Clinic
		525 mg + 525 mg/tablet	Clinic
Chloramine-T	Immersion		Fish
Chloro- <i>m</i> -cresol	Liquid		Practice
Chlorpyrifos + cypermethrin	Topical	50% w/v + 5% w/v	Practice
Chlortetracycline	Oral	200 mg/g premix	Fish
Chondroitin sulfate	Oral (tabs, liquid), gel		Clinic/practice
Chorionic gonadotropin	Injectable		Fish
Clomipramine	Injectable	5 mg 20 mg 80 mg	Clinic
Clopidogrel	Oral	75 mg tablet	Clinic
Clotrimazole + betamethasone + gentamicin	Topical/ear drop	10 mg + 1 mg + 3 mg	Clinic/practice
Coumaphos	Strips	32 mg/strip 1.36 g/strip 10% per strip	Bees
Cyclopentolate HCl	Topical	0.5% 1% drop	Clinic
Cyclosporin	Oral capsule	10 mg 25 mg 50 mg 100 mg	Clinic
Cyclosporin A	Topical	2 mg/g	Clinic
Cyfluthrin	Topical	1% m/v	Practice

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Cymiazole + cypermethrin	Topical	17.5% m/v + 2.5% m/v	Practice
Cynara	In feed	15 g 30 g	Practice
Cypermethrin	Topical pour on, aerosol	1% m/v 0.5% m/m	Practice Clinic/practice
Cypermethrin + chlorpyrifos + piperonyl butoxide	Topical/pour on	6% w/v + 7% w/v + 0.5% w/v	Practice
Cypermethrin + chlorpyrifos + piperonyl butoxide + citronella	Topical	5% + 7% + 5% + 0.5%	Practice
Cyromazine	Pour on	100 g/L	Practice
Danofloxacin	Injectable	25 mg	Practice (R)
Decoquinate	Premix	6% w/w	Practice
Deltamethrin + piperonyl butoxide	Topical	0.1% m/m + 0.05% m/m	Practice
Derquantel + abamectin	Drench	10 mg/mL + 1 mg/mg	Practice (R)
Dexamethasone + marbofloxacin + clotrimazole	Topical	3 mg/mL	Clinic
Dexmedetomidine	Injectable	0.5 mg/mL	Clinic
Dicyclanil	Pour on	50 g/L	Practice
Diflubenzuron	Topical	250 g/l	Practice
Dimethylglycine	In feed	5-30 g × 2/day	Practice (horses)
Dinitolmide + ethopabate	Premix	25% + 1.6% m/m	Practice
Diprenorphine	Injectable	12 mg/mL	R
Dipyrone + hyoscine-N-butylbromide	Injectable	500 mg + 4 mg	Clinic/practice
Doramectin	Injectable solution	10 mg/mL	Clinic/practice
Doxycycline + neomycin	Oral powder	100 mg + 100 mg/g	Practice (R)

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Doxycycline + sodium sulfacetamide + cетrimide	Topical	1% m/m + 5% m/m + 1% m/m	Clinic/practice
Doxycycline hyclate	Injectable	100 mg/mL	Clinic/practice (R)
	Oral (water soluble)	500 mg/mL	Practice (R)
Emodepside + praziquantel	Topical	21.4 mg/mL + 85.8 mg/mL	Practice
Enalapril	Oral	2.5 mg 5 mg 10 mg	Clinic
Enrofloxacin			Fish (R)
Eprinomectin			Practice
Erythromycin			Fish
Ethacridine lactate monohydrate	Topical immersion	50 mg/mL	Ornamental fish
Fipronil + (S)-methoprene + butylhydroxytoluene	Topical/spot on	100 mg/mL + 90 mg/mL + 200 mg/mL	Clinic (dogs)
	Spot on	100 mg/mL + 120 mg/mL + 200 mg/mL	Clinic (cats)
Fipronil + silver sulfadiazine + aluminum	Topical/spray	1 g + 0.312 g + 9.375 g	Clinic/practice
Firocoxib	Oral chewable	57 mg 227 mg	Clinic
Flavophospholipol	Premix		
Florfenicol	Injectable	300 mg/mL	Practice (R)
	Oral	20 mg/g premix	Fish
FluazuronError! Bookmark not defined.	Pour on	25 g/L	Clinic/practice (R)
	Pour on	25 g/L	Practice
Fluazuron + flumethrin	Pour on	2.5% m/v + 1.0% m/v	Practice
Flubendazole	Oral	1.666% m/v	Clinic/practice

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Fluconazole	Injectable	2 mg/mL	Clinic
	Oral capsule	50 mg 150 mg 200 mg	Clinic
Flucytosine	Injectable	10 mg/mL	Clinic
Flumequine		3%	Fish
		10%	
		50%	
Flumethrin	Strips	1.6 g per strip	Bees
Fluralaner	Oral/tablet	250 mg 500 mg 1,000 mg 1,400 mg	Clinic
Formalin	Topical immersion		Fish
Formic acid		80%	Bees
Fumagillin			Bees
Galliprant	Oral/tablet	20 mg 60 mg 100 mg	Clinic (dogs)
Gamithromycin	Injectable	150 mg/mL	Practice (R)
Gentamycin + betamethasone + clotrimazole	Ear drop susp	1.214 mg 3 mg 10 mg	Clinic (R)
Gentamicin + methylparaben	Injectable	50 mg/mL + 0.1% m/v	Practice (R)
Gleptoferron	Injectable	200 mL elemental iron	Practice (swine)
Glucosamine		187.5 mg/mL	Practice (horses)
Haloperidol	Injectable	20 mg/mL	WL
Homidium (chloride & bromide)	Injectable (PFI)	250 mg	Practice
Hydrocortisone + gentamicin + miconazole	Topical		Clinic
Hydrogen peroxide	Topical immersion	35%	Fish

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Imidacloprid	Topical/spot on	10% m/v	Clinic
Imidacloprid + moxidectin	Topical/spot on	10% m/v + 1% m/v	Clinic
Imidacloprid + permethrin	Topical/spot on	10% m/v + 50% m/v	Clinic
Indoxacarb	Topical	195 mg	Clinic
Isoflepredone	Injectable	2 mg/mL	Practice
Ivermectin			Fish
	Topical	100 µg/g 800 µg/g spot on	Clinic/practice
	Topical	200 µg/mL	Clinic/practice
Ivermectin + clorsulon	Injectable solution	1% m/v + 10% m/v	Practice (R)
Ivermectin + novaluron	Topical	3% m/v + 2% m/v	Practice (R)
Ivermectin + pyrantel pamoate	Oral/tablet	114 mg + 135 µg	Clinic (dogs)
Ivermectin + pyrantel pamoate + praziquantel	Oral/chewable tablet	136 µg + 114 mg + 114 mg	Clinic (dogs)
Josamycin + trimethoprim	Soluble powder	18 million IU + 10 g	Practice (R)
Kanamycin + dexamethasone + mepyramine malate + undecylenic acid + zinc oxide	Topical	1.5 mg/g + 0.1 mg/g + 0.4 mg/g + 25 mg/g	Clinic/practice
Ketoprofen	Injectable	1 % m/v 10% m/v	Clinic
	Oral	5 mg 10 mg 20 mg	Clinic
Kitasamycin	Oral (premix)	1% m/m 10% m/m 11% m/m	Practice (R)
Lactic acid + salicylic acid	Topical	2.5% + 0.1%	Clinic/practice

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Lignocaine	Injectable	0.02 mg/mL	Clinic/practice
Lincomycin	Powder	192 g	Bees
Maduramicin ammonium	Premix	10 g/kg	Practice
β-Mannanase	Oral	720 million units/L	Practice
Maropitant	Injectable	10 mg/mL	Clinic/practice
	Oral	16 mg 24 mg 160 mg	Practice
Medetomidine HCl	Injectable	10 mg/mL 20 mg/mL 40 mg/mL	WL
	Injectable	2 mg/mL 5 mg/mL 20 mg/mL	Clinic
	Oral susp	0.5 mg/mL 1.5 mg/mL 15 mg/mL	Clinic
Meloxicam	Oral tablet	1 mg 2.5 mg	Clinic
	Topical (gel)	0.7% mL/v	Practice
			Bees
Menthol + methylsulfonyl-methane	Topical for relief of dermatitis	0.02% m/v + 0.02% m/v	Clinic/practice
Methyl salicylate + camphor + salicylic acid+ menthol + lanolin	Topical	1% m/m + 0.5% m/m + 0.5% m/m + 0.03% m/m + 14.5% m/m	Practice
Metronidazole	Injectable	5 mg/mL	Clinic (R)
	Oral/tablet	200 mg 400 mg	Clinic (R)
Milbemax + praziquantel	Oral		Practice

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Milbemycin + lufenuron	Oral/tablet	2.3 mg + 46 mg 5.75 mg + 115 mg 11.5 mg + 230 mg 23 mg + 460 mg	Clinic
Milbemycin oxime + lufenuron + praziquantel	Oral/tablet	5.75 mg + 115 mg + 57 mg	Clinic (dogs)
Mometasone + orbifloxacin + posaconazole	Topical		Clinic
Monepantel	Oral	25 mg/mL	Clinic/practice
Montmorillonite + maltase 700 + lysine + methionine	Premix	630.8 g/kg + 0.75 g/kg + 100.0 g/kg + 150.0 g/kg	Practice
Moxidectin + imidacloprid	Topical	10 mg/mL 25 mg/mL spot on	Clinic
Nalmefene	Injectable	12 mg/mL	WL
Naltrexone HCl	Injectable	40 mg/mL 50 mg/mL	WL
Narasin	Premix	100 g/kg	Practice
Nicarbazin	Premix	250 g/kg	Practice
Nitenpyram	Oral/tablet	11.4 mg 57 mg	Clinic (cats) Clinic
Nux vomica + zingiber + ammonium carbonate + cerevisiae	Oral powder	3.125% m/m + 6.25% m/m + 12.5% m/m + 25.0% m/m	Practice
Nystatin + neomycin + thiostrepton + triamcinolone acetonide	Topical/ointment	100,000 units + 2.5 mg + 2,500 units + 1.0 mg	Clinic
Oestriol	Oral	1 mg	Clinic (dogs)

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Olaquindox	Premix for pigs & poultry	100 g/kg	Practice (R)
Omepremazole	Oral	37% w/w	Clinic
Oreganum essential oil	Oral		
Oxalic acid	Solution	60%	Bees
Oxyethylene oxypropylene	Oral (in feed)	53% m/m	Practice
Oxytetracycline	Powder	62.5 mg	Bees
	Premix		Fish
	Topical immersion		Fish
Oxytetracycline + flunixin	Injectable	300 mg/mL + 20 mg/mL solution	Practice (R)
Permethrin	Emulsified concentrate	40%	Bees (R)
Permethrin + esbioallethrin + pyriproxyfen + piperonyl butoxide	Topical spray	3% + 0.4% + 0.3% + 2%	Clinic (avoid in cats)
Permethrin + esbiothrin + piperonyl butoxide	Topical/ointment	0.4% + 0.3% + 5%	Clinic (avoid in cats)
Permethrin + pyriproxyfen	Topical/spot on	65% m/v + 8% m/v	Clinic
Perphenazine enanthate	Injectable	40 mg/mL	WL
Petrolatum	Oral		
Phenylephrine	Topical	2.5% drop 10% drop	Clinic
Pheromone analogue			Clinic
Pimobendan	Oral	1.25 mg 5 mg	Clinic
Piperazine dihydrochloride	Oral	64.5% m/m	Clinic/practice
Polyethylene glycol	In water	925 g	Practice
Potassium permanganate			Fish

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Praziquantel + levamisole + closantel + ivermectin + sodium selenite + cobalt chloride	Oral	5.0% m/v + 4.00% m/v + 3.75% m/v + 0.10% m/v + 0.11% m/v + 0.11% m/v	Practice
Praziquantel + pyrantel pamoate + oxantel pamoate	Oral	50 mg + 140 mg + 545 mg	Practice
Prednisolone + polymyxin B + miconazole	Topical		Clinic
Procaine benzylpenicillin	Injectable	300 mg/mL	Clinic/practice (R)
Procaine benzylpenicillin + dihydrostreptomycin + methyl parahydroxybenzoate + sodium formaldehyde sulfoxylate	Injectable	200 mg/mL + 200 mg/mL + 0.1% m/v + 0.25 % m/v	Practice (R)
Progesterone	Intravaginal device	0.3 g 1.55 g 1.9 g	Practice
Proloxalene (oxypropylene polymer)	Oral	25 g/30 mL	Practice
Propentamphos	Topical/grease	0.14% m/m	Practice
Propentamphos + dichlorophen + pine oil	Topical/wound oil	0.25% + 1.0% + 3.0%	Practice
Propentofilline	Oral	50 mg	Clinic
Propoxur	Topical/collar	9.4% m/m	Clinic
Protamine sulfate	Injectable	10 mg/mL	Clinic/practice
Pyrantel embonate	Oral		Clinic/practice
Pyripole	Topical	12.5% m/v	Clinic

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Pyriproxyfen + permethrin	Topical	8 m/v + 65 m/v	Clinic
Quaternary ammonium blend + lauryl betaine + ichthyol	Topical antiseptic	24 g/L + 12 g/L + 0.5 g/L	Clinic/practice
Quaternary ammonium + polyguanylguanide	Topical	6.5 g/L + 50 g/L	Clinic
Ractopamine HCl	Premix	20 g/kg	Practice
Resorantel	Oral	25% m/v	Practice
Ricobendazole	Oral	10% m/v	Practice
Robenacoxib	Injectable	20 mg	Clinic
	Oral tablet	5 mg	Clinic
		6 mg	
		10 mg	
		20 mg	
		40 mg	
Robenidine	In feeds	66 g/kg	Practice
(R)-Salbutamol sulfate	Premix	100 g/kg	Practice
Sarolaner	Oral/chewable tablet	5 mg	Clinic (dogs)
		10 mg	
		20 mg	
		40 mg	
		80 mg	
Selamectin	Topical	6%	Clinic
		13% spot on	
		60 mg/mL	Clinic (R)
Selenium + vitamin E	Oral	125 g/L	
		500 mg/mL +	Practice
		125 g/L	(horses)
Semduramicin	Premix	50 g/kg	Practice
Sevoflurane	Inhalation	Volatile liquid	Clinic
Sisapronil	Injectable	10% w/v	Practice (R)
Sodium acid citrate	Oral	280 g/L solution	Equine practice
Sodium aluminosilicate	Premix (mycotoxin binder)	800 g/kg	Clinic/practice

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Sodium butyrate	In feed	Varies	Practice
Sodium hyaluronate	Injectable	10 mg/mL	Practice (equine)
Sodium lasalocid	Premix	150 g/kg	Practice
Sodium monensin	Premix	200 g/kg	Practice
Sodium pentobarbitone	Injectable	200 mg/mL	Clinic/practice
Sodium propionate	Oral	15% m/m	Practice
Sodium salinomycin	In feeds	12% m/m	Practice
Sodium sulfachloropyridazine + trimethoprim	Oral (in water)	100 mg + 20 mg/mL	Practice (R)
Sodium sulfadiazine + trimethoprim	Oral	20 g + 4 g/100 mL	Practice (R)
Sodium sulfadimethoxine	Injectable solution	40% m/v	Practice (R)
Sodium sulfadimidine	Oral (in drinking water)	16% m/v	Practice
	Injectable	33.3% m/v	Practice
Sodium sulfaquinoxaline + sodium sulfametacine + sodium sulfadimethoxine + trimethoprim + vitamins A, E, D3, C, & K3	Oral (in water)	15 g + 14 g + 2 g + 6 g/100 g	Practice (R)
Spinosad	Susp concentrate	25 g/L	Practice
Sulfaclozine sodium monohydrate	Oral (in water)	300 g/kg	Practice
Sulfadimethoxine/ ormetoprim	Oral	Medicated feed	Fish
Sulfafurazole + sulfamidine + trypsin	Vaginal pessaries	5% m/m + 5% m/m + 10% m/m	Practice (R)
Sulfamerazine	Oral	Medicated feed	Fish
Taufluvinate	Strips	80 mg/strip	Bees

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Thiafentanyl oxalate	Injectable	10 mg/mL	Clinic/WL
Thiamenthoxam (neonicotinoid) + (Z) 9-tricosene	Bait on fly trap Bait-paint-on	10 g/kg + 1 g/kg 100 g/kg + 0.5 g/kg	Clinic/practice
Thiamine (vitamin B1)	Injectable	100 mg/mL	Clinic/practice
L-Threonine	Oral	50 mg 100 mg	Clinic
Thymol			Bees
Thymol & peppermint oil			Bees
Tiamulin hydrogen fumarate	Premix Granules	100 g/kg 450 mg/g	Practice (R)
Tiletamine	Injectable	1 g powder	Clinic/WL
Tiletamine + zolazepam	Injectable	50 mg/mL + 50 mg/mL powder	Clinic & WL
Tiludronic acid	Injectable	50 mg powder	Equine practice
Tolazoline HCl	Injectable	300 mg/mL	WL
Trenbolone acetate + oestradiol + tylosin tartrate	Implant	140 mg + 28 mg + 29 mg	Practice (cattle)
Triazophos	Topical	40% m/m	Practice
Tricaine methanesulfonate	Topical immersion	1,000 mg/g powder	Fish (R)
Trichlorfon	Oral		Practice
Triclabendazole	Oral	10% m/v	Practice
Triflumuron	Pour on	2.5% m/v 480 g/L	Practice
Trimethoprim + sulfadimethylpyri- midine	Injectable solution	40 mg/mL + 200 mg/mL	Practice (R)
Trimethoprim + sulfadoxine + diethanolamine	Injectable	40 mg/mL + 20 mg/mL + 3 mg/mL	Practice (R)
Tropicamide	Topical	0.5% drop 1% drop	Clinic
Tryptophan	Oral	Tablet	Clinic

SECTION ONE: INTRODUCTION

Drug	Dosage form	Strength	Use
Tulathromycin	Injectable	100 mg/mL	Practice (R)
Tylosin	Powder	100 g 256 g	Bees
Virginiamycin	Premix	500 g/kg	Practice (R)
Zeranol	Implant	12 mg 36 mg	Practice
	Pellets	12 mg	Practice
Zilpaterol	In feed	48 g/kg	Practice (cattle)
Zinc bacitracin	Granular premix	150 g/kg	Practice (R)
Zinc sulfate	Oral tablet	66 mg 110 mg 200 mg	Clinic
	Injectable	1 mg/mL	

New Biologicals, Vaccines, or Combinations included in EVMLU 2020

Vaccine/biological	Animal species
<i>Actinobacillus pleuropneumoniae</i> vaccine	Pigs
Avian adenovirus vaccine	Poultry
Avian encephalomyelitis vaccine	Poultry
Avian gut flora (not a vaccine)	Poultry
Avian influenza vaccine	Poultry
Avian paramyxovirus + Newcastle disease + turkey rhinotracheitis virus vaccines	Chicken & turkey
Avian paramyxovirus vaccine	Pigeon
Avian reovirus vaccine	Poultry
Avian rhinotracheitis vaccine	Poultry
<i>Babesia bigemina</i> vaccine	Cattle
<i>Babesia bovis</i> vaccine	Cattle
Bluetongue vaccine	Sheep
Boar taint vaccine	Male pigs
Bovine herpes virus vaccine	Bovine
Bovine parainfluenza vaccine	Bovine
Bovine respiratory syncytial vaccine	Bovine

SECTION ONE: INTRODUCTION

Vaccine/biological	Animal species
Bovine rotavirus vaccine	Bovine
Bovine viral diarrhea vaccine	Bovine
<i>Brucella bovis</i> vaccine	Sheep
<i>Campylobacter fetus</i> vaccine	Cattle
Canarypox virus vaccine	Horses
Chicken anemia vaccine	Poultry
Chicken herpes virus vaccine	Chicks
<i>Chlamydophila abortus</i> vaccine	Sheep (ewe)
<i>Clostridium + Pastuerella</i> vaccines	Sheep
<i>Clostridium haemolyticum</i> vaccine	Cattle & goats
<i>Clostridium sordelli</i> vaccine	Cattle & sheep
<i>Corynebacterium</i>	Sheep (ewe)
<i>Corynebacterium ovis</i> vaccine	Sheep & goats
Diethylstilboestrol (DES)	Steers, heifers
Diethylstilboestrol + methyltestosterone	Calves
Diethylstilboestrol + testosterone	Steers
<i>E. coli</i> vaccine	Cattle & sheep
<i>E. coli</i> (enterotoxigenic strain) <i>Clostridium perfringens</i> type C vaccine	Swine
<i>E. coli</i> , type O78	Poultry (fowl & turkey)
Egg drop syndrome vaccine	Poultry
<i>Ehrlichia ruminantium</i> vaccine	Sheep, goats, cattle
<i>Enterococcus faecium</i> probiotic	Cats & dogs
Equine herpes virus vaccine	Horses
Equine rhinopneumonitis vaccine	Horses
<i>Erysipelothrix rhusiopathiae</i> vaccine	Pigs
Feline immunodeficiency virus vaccine	Cats
Fowl herpes virus vaccine	Turkey
Fowl laryngotracheitis vaccine	Turkey
<i>Haemophilus parasuis</i> vaccine	Pigs
Hexoestrol	Steers, sheep, calves, poultry
Hexoestrol + TBA	Swine
<i>Lawsonia intracellularis</i> vaccine	Pigs

SECTION ONE: INTRODUCTION

Vaccine/biological	Animal species
<i>Mannheimia haemolytica</i> (blue udder) vaccine (<i>Pasteurella haemolytica</i>)	Cattle, sheep, goats
Marek's disease vaccine	Poultry
Melengestrol acetate	Heifers
<i>Moraxella bovis</i> vaccine	Cattle
<i>Mycobacterium avium</i> vaccine	Poultry
<i>Mycobacterium bovis</i> vaccine	Cattle
<i>Mycobacterium paratuberculosis</i> vaccine	Goats & sheep
<i>Mycoplasma bovis</i> vaccine	Cows
<i>Mycoplasma gallisepticum</i> vaccine	Poultry
<i>Mycoplasma synoviae</i> vaccine	Fowl & turkey
Oestradiol-17 β benzoate+ TBA	Steers
Oestradiol-17 β benzoate + progesterone	Heifers, calves
Oestradiol-17 β benzoate + testosterone propionate	Bulls, steers, calves, sheep
<i>Pastuerella multicocida</i> vaccine	Poultry
Pigeon pox virus vaccine	Pigeon
Porcine circovirus vaccine	Pigs (sows) & gilts
Porcine parvovirus (<i>Erysipelothrix rhusiopathiae</i> type 2)/swine parvovirus vaccine	Pigs
Rift Valley fever live vaccine	Cattle
Rift Valley fever vaccine (live & inactivated)	Goats & sheep
<i>Salmonella Dublin</i> (calf paratyphoid live vaccine)	Cattle
<i>Salmonella Dublin</i> + <i>S. typhimurium</i> + <i>S. bovismorbificans</i> (calf paratyphoid inactivated polyvalent vaccine)	Cattle
<i>Salmonella enteriditis</i> vaccine	Poultry
<i>Salmonella gallinarum</i> vaccine	Poultry (fowl & turkey)
<i>Salmonella typhimurium</i> vaccine	Poultry
<i>Staphylococcus aureus</i> vaccine + <i>Mannheimia haemolytica</i> (blue udder) vaccine	Sheep
<i>Streptococcus</i> vaccine	Horses
Swine colibacillosis (<i>E. coli</i>) vaccine	Swine
Swollen head syndrome virus vaccine	Poultry
Tenosynovitis vaccine (modified avian live reovirus)	Poultry

SECTION ONE: INTRODUCTION

Vaccine/biological vaccine)	Animal species
Turkey herpes virus + fowl herpes virus vaccine (Marek's disease vaccine)	Turkey
West Nile virus vaccine	Horses
Zeranol	Steers, sheep
Zeranol + TBA	Steers

1.7 Veterinary Medicines Deleted from EVDLU 2001

Drug	Dosage Form	Strength	Use
Arecoline hydrogen bromide	Injectable	0.5%	Clinic/practice
Carbadox	Oral	500 mg	Practice
Cephaloridine	Oral	100 g	Clinic/practice
Chlorfenvinphos + dichlorphos + Gentian violet	Topical	0.48% m/m + 0.74% m/m + 0.145%	Clinic/practice
Clenbuterol	Injectable	30 µg/mL	Clinic
Diazinon	Topical	200 mg/mL	Clinic/practice
	Topical	16% w/v 60% w/v	Practice
Diethylstilboestrol (DES)	Feed additive	10–20 mg/day	Practice (steers, heifers)
	Implant	30–60 mg/day	Practice (steers)
	Oil solution		Practice (veal calves)
Dioxanthion	Topical	6%	Practice
Fenthion	Topical	100 mg/mL	Practice
Furaltadone	Oral	15%	Practice
Furazolidone	Oral	250 mg/5 mL susp	Practice
	Oral	5 g sachet	Practice
	Injectable	50 mg/mL	Practice
	Injectable	75 mg/mL	Practice
Gentian violet	Topical	1% w/v solution	Clinic/practice

SECTION ONE: INTRODUCTION

Drug	Dosage Form	Strength	Use
Lindane	Topical	0.06% (conc. solution for use in dip)	Practice
Malathion	Topical	0.5% powder	Clinic/practice
Nitrofurantoin	Oral	15% susp	Practice
	Oral	50 mg 100 mg	Practice
Nitrofurazone	Oral	50 mg	Practice
	Oral	100 mg	Practice
Stilbestrol dipropionate	Injectable	10 mg/mL	practice
Strychnine	Oral	25% w/w powder	Clinic/practice
Trichlorophophon (metrifonate)	Oral	10 mg tablet	Practice

1.8 Vaccine(s) Deleted from EVDLU 2001

Vaccine	Dosage form	Strength	Use
Rinderpest vaccine	Injectable	10 x 2.5 TCID ₅₀	Practice

1.9 Amendments

The EVMLU 2020 will be revised from time to time. Any proposal for amendment can be sent to the Ministry at the address below:

Directorate of Animal Resources, Department of Animal Health
Ministry of Agriculture, Animal Industry and Fisheries Headquarters
PO Box 102, Entebbe Plot 16-18
Lugard Avenue, Entebbe, Uganda
Email: info@agriculture.go.ug/Tel: 041 4320004

Proposals for deletion, inclusion, or correction should be entered in the form below and submitted with supporting documentation. The form can be copied.

SECTION ONE: INTRODUCTION

Call for Amendment of EVML 2020

A: Contact detail of person requesting

First name..... Surname.....

Contact.....

Organization address.....

B: Nature of request

Deletion Addition Change
Others (specify).....

C: Type of medicine

Drug Chemical Vaccine
Other biologicals Others (specify).....

D: Information about the medicine

Generic name.....

Dosage form 1.....

Strength 1.....

Name of manufacturer.....

E: Give reasons for proposed amendment

1.....
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2.....
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3.....
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4.....
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SECTION TWO

2 Essential Veterinary Medicines List

Drug	Dosage form	Strength	Use
2.1 Acaricides/Insecticides/Pesticides			
Afoxolaner	Oral/tablet	11.3 mg 28.3 mg 68 mg 136 mg	Clinic (dogs)
Afoxolaner milbemycine oxime	Oral/chewable tablet	9 mg/2 mg 19 mg/4 mg 38 mg/8 mg 75 mg/15 mg 150 mg/30 mg	Clinic (dogs)
Alphacypermethrin	Topical	1.5% solution	Practice
	Topical	5% solution	Practice
	Topical	10% EC solution	Practice
Alphamethrin + cypermethrin + tetrachlorvinphos + piperonyl butoxide	Pour on	0.5% m/m + 1% m/m + 2% m/m + 7.5% m/m	Clinic
Amitraz	Topical	12.5% solution	Clinic/ practice
Benzyl benzoate	Topical	25% lotion	Clinic/ practice
Carbaryl	Topical	5%	Clinic/ practice
Chlорfenvinphos	Topical	10% solution	Practice
	Topical	30% solution	Practice
Chlorpyrifos + cypermethrin	Topical	50% w/v + 5% w/v	Practice
Cyfluthrin	Topical	1% m/v	Practice
Cymiazole + cypermethrin	Topical	17.5% m/v + 2.5% m/v	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Cypermethrin	Topical pour on, aerosol,	1% m/v 0.5% m/m	Clinic/ practice
Cypermethrin + chlorpyrifos + piperonyl butoxide	Topical/pour on	6% + w/v 7% + w/v 0.5% w/v	Practice
Cypermethrin + chlorpyrifos + piperonyl butoxide + citronella	Topical	5% + 7% + 5% + 0.5%	Practice
Cyromazine	Pour on Powder	100 g/l 500 g/kg	Practice
Deltamethrin	Topical	6%	Practice
Dicyclanil	Pour on	50 g/L	Practice
Diflubenzuron	Topical	250 g/l	Practice
Fipronil	Topical	250 mg/mL spray	Clinic
Fipronil + (S)-methoprene + butylhydroxytoluene	Topical/spot on Spot on	100 mg/mL + 90 mg/mL + 200 mg/mL 100 mg/mL + 120 mg/mL + 200 mg/mL	Clinic (dogs) Clinic (cats)
Fipronil + silver sulfadiazine + aluminum	Topical/spray	1 g + 0.312 g + 9.375 g	Clinic/ practice
Fluazuron	Pour on	25 g/L	Practice
Fluazuron + flumethrin	Pour on	2.5% m/v + 1.0% m/v	Practice
Flumethrin	Topical	6%	Practice
Fluralaner	Oral/tablet	250 mg 500 mg 1,000 mg 1,400 mg	Clinic
Imidacloprid	Topical/spot on	10% m/v	Clinic
Imidacloprid + moxidectin	Topical/spot on	10% m/v + 1% m/v	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Imidacloprid + permethrin	Topical/spot on	10% m/v + 50% m/v	Clinic
Indoxacarb	Topical	195 mg	Clinic
Ivermectin + novaluron	Topical	3% m/v + 2% m/v	Practice
Ivermectin + pyrantel pamoate	Oral/tablet	114 mg + 135 µg	Clinic (dogs)
Ivermectin + pyrantel pamoate + praziquantel	Oral/chewable tablet	136 µg + 114 mg + 114 mg	Clinic (dogs)
Lufenuron	Oral/tablet	67.8 mg 204.9 mg 409.8 mg	Clinic
	Oral	133 mg susp	Clinic
	Injectable	40 mg/mL (0.4 mL syringe) 80 mg/mL (0.8 mL syringe)	Clinic (cat) (R)
Milbemycin + lufenuron	Oral/tablet	2.3 mg + 46 mg 5.75 mg + 115 mg 11.5 mg + 230 mg 23 + 460 mg	Clinic
Milbemycin oxime + lufenuron + praziquantel	Oral/tablet	5.75 mg + 115 mg + 57 mg	Clinic (dogs)
Nitenpyram	Oral/tablet	11.4 mg 57 mg	Clinic
	Oral/tablet	11.4 mg	Clinic (cats)
Permethrin	Topical	80 mg/mL	Practice
Permethrin + esbioallethrin + pyriproxyfen + piperonyl butoxide	Topical spray	3% + 0.4% + 0.3% + 2%	Clinic (avoid in cats)
Permethrin + esbiothrin + piperonyl butoxide	Topical/ointment	0.4% + 0.3% + 5%	Clinic (avoid in cats)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Permethrin + pyriproxyfen	Topical/spot on	65% m/v + 8 m/v	Clinic
Propentamphos	Topical/grease	0.14% m/m	Practice
Propentamphos + dichlorophen + pine oil	Topical/wound oil	0.25% + 1.0% + 3.0%	Practice
Propoxur	Topical/collar	9.4% m/m	Clinic
Sarolaner	Oral/chewable tablet	5 mg 10 mg 20 mg 40 mg 80 mg	Clinic (dogs)
Selamectin	Topical	60 mg/mL 120 mg/mL	Clinic
Sisapronil	Injectable	10% w/v	Practice (R)
Spinosad	Susp concentrate	25 g/L	Practice
Thiamenthoxam (neonicotinoid) + (Z) 9-tricosene	Bait on fly trap Bait-paint-on	10 g/kg + 1 g/kg 100 g/kg + 0.5 g/kg	Clinic/ practice Clinic/ practice
Triazophos	Topical	40% m/m	Practice
Triflumuron	Pour on	2.5% m/v 480 g/L	Practice

2.2 Analgesics, Antipyretics, & Non-Steroidal Anti-Inflammatory Drugs

Aspirin	Oral tablet	65 mg 81 mg 325 mg 500 mg	Clinic/ practice
Butorphanol	Injectable	0.5 mg/mL	Clinic
	Injectable	10 mg/mL	Clinic/ practice
	Oral	1 mg 5 mg 10 mg	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Carprofen	Injectable	50 mg/mL	Clinic
	Oral/chewable	25 mg 75 mg 100 mg	Clinic
Cyclosporin	Oral capsule	10 mg 25 mg 50 mg 100 mg	Clinic
Dipyrone	Injectable	500 mg/mL	Clinic/practice
Dipyrone + hyoscine- <i>N</i> - butylbromide	Injectable	500 mg + 4 mg	Clinic/ practice
Firocoxib	Oral chewable	57 mg 227 mg	Clinic
Flunixin	Injectable	50 mg/mL	Clinic/ practice
	Oral	5 mg 20 mg	Clinic
	Oral paste	1,500 mg/syringe	Practice
Galliprant	Oral/tablet	20 mg 60 mg 100 mg	Clinic (dogs)
Isopyrin	Oral	240 mg	Clinic
Ketoprofen	Injectable	1 % m/v 10% m/v	Clinic
	Oral	5 mg 10 mg 20 mg	Clinic
	Oral susp	0.5 mg/mL 1.5 mg/mL 15 mg/mL	Clinic
Meloxicam	Oral tablet	1 mg 2.5 mg	Clinic
	Injectable	2 mg/mL 5 mg/mL 20 mg/mL	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Paracetamol	Oral	400 mg	Clinic
Pethidine	Injection	50 mg/mL	Clinic
Phenylbutazone	Injection	200 mg/mL	Clinic/ practice
	Oral	25 mg	Clinic
	Oral paste	12 g/syringe	Clinic/ practice
Robenacoxib	Oral tablet	5 mg 6 mg 10 mg 20 mg 40 mg	Clinic
	Injectable	20 mg	Clinic
Sodium hyaluronate	Injectable	10 mg/mL	Practice (equine)
Tolfenamic acid	Injectable	40 mg/mL	Clinic
	Oral	6 mg 20 mg 60 mg	Clinic
Xylazine	Injectable	20 mg/mL 100 mg/mL	Clinic/ practice

2.3 Anti-Anemics

Ferrous sulfate	Tablet	50 mg	Clinic
Ferrous sulfate + vitamin B12	Injectable	100 mg + 1.5 mg/mL	Clinic/ practice

2.4 Antibiotics & Antimicrobials

2.4.1 Aminoglycosides

Amikacin	Injectable	50 mg/mL 250 mg/mL	Clinic/ practice (R)
Dihydrostrepto- mycin	Injectable	150 mg (PFR)	Clinic/ practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Gentamicin	Injectable	5% solution	Clinic/ practice (R)
	Oral	250 mg	Clinic (R)
	Intramammary	500 mg	Practice (R)
Gentamicin + betamethasone + clotrimazole	Ear drop susp	1.214 mg	Clinic (R)
		3 mg	
		10 mg	
Gentamicin + methylparaben	Injectable	50 mg/mL + 0.1% m/v	Practice (R)
Kanamycin	Injectable	1 g (PFR)	Clinic/ practice (R)
	Oral	10 g/sachet	Practice (R)
Neomycin	Injectable	50 mg/mL	Clinic/ practice (R)
	Oral	700 mg/g powder	Practice (R)
Paromomycin	Injectable	50 mg/mL	Clinic/ practice (R)
Spectinomycin	Injectable	50 mg/mL 100 mg/mL	Clinic/ practice (R)
	Injectable	250 mg/mL	Clinic/ practice (R)

2.4.2 Fluoroquinolones

Danoflaxacin	Injectable	25 mg	Practice (R)
Difloxacin	Tablets	15 mg	Clinic (R)
		50 mg	
		100 mg	
	Injectable	150 mg 50 mg/mL	Clinic (R)
Enrofloxacin	Eye drop	0.3% solution	Clinic/ practice
	Injectable/ solution	2.5%	Clinic/ practice (R)
		5%	
Enrofloxacin		10%	
Oral	15 mg	Clinic (R)	
	50 mg		
	150 mg		

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Marbofloxacin	Oral	5 mg	Clinic (R)
		20 mg	
		80 mg	
		100 mg	
Norfloxacin	Injectable	10% solution	Clinic/ practice (R)
		Oral solution	Practice (R)

2.4.3 Lincosamides

Clindamycin	Oral drops	25 mg	Clinic (R)
		75 mg	Clinic (R)
Lincomycin	Injectable	150 mg	Clinic/ practice (R)
		50 mg/mL	
	Oral	100 mg/mL	
Tulathromycin	Injectable	400 mg/g powder	Practice (R)
		100 mg/mL	Practice (R)

2.4.4 Macrolides

Erythromycin	Injectable	50 mg/mL	Clinic/ practice (R)
		23 g powder	Practice (R)
Gamithromycin	Injectable	150 mg/mL	Practice (R)
Kitasamycin	Oral (premix)	1% mm	Practice (R)
		10% mm	
		11% m/m	
Spiramycin	Injectable	600,000 IU/mL	Practice (R)
Tiamulin hydrogen fumarate	Premix	100 g/kg	Practice (R)
	Granules	450 mg/g	Practice (R)
Tilmicosin	Injectable	50 mg/mL	Clinic/ practice (R)
Tulathromycin	Injectable	100 mg/mL	Practice (R)
Tylosin	solution	5%	R
		20%	
	Premix	10%	Practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

2.4.5 Penicillins

Amoxycillin	Injectable	15% solution	Clinic/ practice (R)
	Oral	40 mg 200 mg 750 mg	Clinic (R)
Ampicillin	Injectable solution	15% 30%	Clinic/ practice (R)
	Capsule	50 mg 125 mg 250 mg	Clinic (R)
Benzathine cloxacillin	Intramammary	500 mg	Practice (R)
Benzathine penicillin G	Injectable	3 g (PFR)	Clinic/ practice (R)
	Intramammary	500 mg	Practice (R)
Carbenicillin disodium	Intramammary	500 mg	Practice (R)
Procaine benzylpenicillin	Injectable	300 mg/mL	Clinic/ practice (R)
Procaine penicillin G	Injectable	250 mg/mL 300 mg/mL	Clinic/ practice (R)
	Intramammary/dry	300 mg	Practice (R)

2.4.6 Cephalosporin

Cefadroxil	Oral	50 mg 100 mg	Clinic (R)
Cefoperazone	Intramammary	250 mg tube	Practice (R)
Cefovecin	Injectable (powder & diluent)	8 mg/kg bw	Clinic (R)
Cefquinome sulfate	Injectable	25 mg/mL	Practice (R)
Ceftiofur	Injectable	6.6 mg/kg bw 50 mg	R
Cefuroxime	Intramammary	250 mg syringe	Practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Cephalexin	Injectable, oral (tablets)	100 mg/mL 75 mg 300 mg 700 mg	Clinic (R)
Cephalonium	Intramammary injectable	250 mg	Practice (R)
Cephalothin	Injectable	100 mg/mL	Clinic (R)
Cephapirin	Intramammary injectable	300 mg/10 mL	Practice (R)

2.4.7 Polymyxins

Colistin	Oral	100 mg/mL	Clinic/ practice (R)
Polymyxin B	Injectable Topical	100 mg/mL 1% oint	

2.4.8 Sulfonamides

Sulfacetamide	Ophthalmic	0.1%	Clinic/ practice (R)
Sulfadiazine	Injectable/oral	160 mg/mL	Practice (R)
Sulfadimethoxine	Oral/tablet Oral/powder	125 mg 250 mg 500 mg 1,000 mg/4 g	Clinic/ practice (R) Clinic/ practice (R)
	Injectable	40% solution	Clinic/ practice (R)
Sulfadimidine	Injectable/oral	333 mg/mL	Practice (R)
Sulfaguanidine	Oral	400 mg	Clinic/ practice (R)
Sulfamerazine	Injectable	333 mg/mL	Clinic/ practice (R)
Sulfamethazine	Injectable/oral	33% solution	Practice (R)
Sulfamethoxypyridazine	Injectable	250 mg/mL	Practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Sulfapyridine	Oral	400 mg	Clinic/ practice (R)
Sulfathiazole	Injectable	33% solution	Clinic/ practice (R)

2.4.9 Tetracyclines

Aureomycin chlortetracycline	In feeds	77 g/kg 100 g/kg	Practice (R)
Chlortetracycline	Oral, sprays	500 mg	Practice (R)
Demeclocycline	Injectable	10% solution	Clinic/ practice (R)
Doxycycline	Oral	20 mg 100 mg	Clinic (R)
Doxycycline + citric acid	Oral/powder	500 mg/g + 200 mg/g	Practice (R)
Doxycycline hyclate	Injectable	100 mg/mL	Clinic/ practice(R)
	Oral (water soluble)	500 mg/mL	Practice (R)
Minocycline HCL	Oral/tablet	50 mg 100 mg	Clinic (R)/ pets
	Oral/capsule	50 mg 100 mg	Clinic (R)/ pets
	Injectable	100 mg	
Oxytetracycline	Injectable solution	5% 10% 20%	Clinic/ practice (R)
	Oral	25% powder	Practice (R)
	Oral	250 mg capsule	Clinic (R)
	Intrauterine	500 mg syringe	Practice (R)
	Intrauterine	500 mg pessary	Practice (R)
Oxytetracycline + flunixin	Intramammary	500 mg syringe	Practice (R)
	Injectable	300 mg/mL + 20 mg/mL solution	Practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Tetracycline	Injectable solution	5%	Clinic/ practice (R)
		10%	
		20%	

2.4.10 Other Antibiotics/Antibacterials

Apramycin	Injectable	200 mg/mL	Practice (R)
Avilamycin	Premix (in feed)	10% m/m	Practice (R)
Bacitracin	Oral	100 g sachet	Practice (R)
Bambermycin	Premix (in feed)	20 g/kg	Practice (R)
Calcium fosfomycin	Premix (in feed & water)	25% m/m	Practice (R)
Clavulinic acid	Oral, injectable	100 mg	Practice (R)
Florfenicol	Injectable	300 mg/mL	Practice (R)
Flunixin	Injectable	20 mg/mL	Clinic/ practice(R)
Framycetin	Injectable	150 mg/mL	Clinic/ practice (R)
Metronidazole	Injectable	5 mg/mL	Clinic (R)
	Oral tablet	200 mg 400 mg	Clinic (R)
Nalidixic acid	Oral	50 mg	Clinic (R)
Novobiocin	Intrauterine	500 mg syringe	Practice (R)
Olaquindox	Premix for pigs & poultry	100 g/kg	Practice (R)
Sodium sulfadimethoxine	Injectable solution	40% m/v	Practice (R)
Tiamulin	Injectable	125 mg/mL	Practice (R)
Tylosin	Injectable	200 mg/mL	R
	Oral	100 g	R
Tylosin phosphate	In feed	10% m/m 25% m/m	Practice (R)
Tylosin tartrate	Oral	100% m/m	Practice (R)
Tylvalosin	Feed additive	50 g/kg	Practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Virginiamycin	Premix	500 g/kg	Practice (R)
Zinc bacitracin	Granular premix	150 g/kg	Practice (R)

2.4.11 Antibiotics/Antimicrobial Combinations

Amoxycillin + gentamicin	Injectable	150 mg + 40 mg/mL	Practice (R)
Ampicillin + cloxacillin	Intramammary	75 mg + 200 mg	Practice (R)
	Intramammary dry	250 mg + 500 mg	Practice (R)
Bacitracin + neomycin + polymyxin B	Topical/cream	50 mg + 200 mg + 150 mg/10 g	Clinic/ practice (R)
Benzylpenicillin + dihydrostreptomycin + nafcillin	Intramammary	180 mg + 100 mg + 100 mg	Practice (R)
Chlortetracycline + neomycin + dihydrostreptomycin	Intramammary	200 mg + 100 mg + 100 mg	Practice (R)
Clavulinic acid + amoxycillin	Intramammary	50 mg + 200 mg	Practice (R)
Erythromycin + furaldantone	Oral/bolus	150 mg + 200 mg	Practice (R)
Gentamicin + nalidixic acid	Oral powder	40 mg + 140 mg	Practice (R)
Josamycin + trimethoprim	Soluble powder	18 million IU + 10 g	Practice (R)
Lincomycin + spectinomycin	Injectable	50 mg + 100 mg/mL	Clinic/ practice (R)
	Oral	33 g + 66 g/150 g powder	Practice (R)
Neomycin + penicillin	Injectable	100 mg + 200 mg/mL	Clinic/ practice (R)
Neomycin + streptomycin	Injectable	50 mg + 50 mg	Clinic/ practice (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Novobiocin + neomycin + procaine penicillin + dihydrostreptomycin	Intramammary	100 mg + 150 mg + 100 mg + 125 mg	Practice (R)
Penicillin + dihydrostreptomycin	Injectable	250 mg + 250 mg	Clinic/ practice (R)
Penicillin + streptomycin	Injectable	250 mg + 250 mg	Clinic/ practice (R)
Procaine benzylpenicillin + dihydrostreptomycin + methyl parahydroxybenzoate + sodium formaldehyde sulfoxylate	Injectables	200 mg/mL + 200 mg/mL + 0.1% m/v + 0.25 % m/v	Practice (R)
Procaine penicillin + novobiocin	Intramammary	300 mg + 250 mg	Practice (R)
Sodium sulfachloropyridazine + trimethoprim	Oral (in water)	100 mg + 20 mg/mL	Practice (R)
Sodium sulfadiazine + trimethoprim	Oral	20 g + 4 g/100 mL	Practice (R)
Sodium sulfamerazine + sodium sulfadimethoxine + trimethoprim + vitamins A, E, D3, C, & K3	Oral (in water)	15 g + 14 g + 2 g + 6 g/100 g	Practice (R)
Sulfamethoxazole + trimethoprim	Injectable	100 mg + 40 mg/mL	Clinic/ practice (R)
Sulfamethoxazole + trimethoprim	Oral	400 mg + 80 mg	Clinic (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Sulfafurazole + sulfamidine + trypsin	Vaginal pessaries	5% m/m + 5% m/m + 10% m/m	Practice (R)
Sulfamerazine + sulfadiazine + sulfathiazole + trimethoprim	Injectable	100 mg + 60 mg + 40 mg + 40 mg/mL	Clinic/ practice (R)
Trimethoprim + sulfadimethyl-pyrimidine	Injectable solution	40 mg/mL + 200 mg/mL	Practice (R)
Trimethoprim + sulfadoxine + diethanolamine	Injectable	40 mg/mL + 20 mg/mL + 3 mg/mL	Practice (R)
Tylosin + sulfadimidine	Oral	100 g + 100 g/kg	Practice (R)

2.5 Anticoagulants

Clopidogrel	Oral	75 mg tablets	Clinic
Heparin sodium	Injectable	1,000 IU/mL 5,000 IU/mL	Clinic

2.6 Antidotes

Acetylcysteine	Injectable	200 mg/mL	Clinic/ practice
Activated charcoal	Oral powder	50 g	Clinic/ practice
	Oral tablet	250 mg	Clinic/ practice
	Oral premixed slurry	200 mg/mL	Clinic/ practice
Antivenin (polyvalent)	Injectable	10 mL vial	Clinic/ practice
Deferoxamine mesylate	Injectable (PFR)	500 mg 2 g	Clinic/ practice
Dimercaprol	Injectable	5% 10%	Practice/clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
EDTA calcium disodium	Injectable	200 mg/mL	Practice/clinic
Fomepizole	Injectable	1 g/mL	Clinic/practice
Ipecacuanha	Oral	0.14% syrup	Clinic
Methocarbamol	Oral/tablet	500 mg 750 mg	Clinic
	Injectable	100 mg/mL	Clinic
Methylene blue	Injectable	10 mg/mL	Practice
Obidoxime	Injectable	250 mg/mL	Clinic/practice
Penicillamine	Oral	125 mg/250 mg	Clinic/practice
Pralidoxime	Injectable	200 mg/mL 250 mg/mL	Clinic/practice
Protamine sulfate	Injectable	10 mg/mL	Clinic/practice
Sodium nitrate	Injectable	30 mg/mL	Practice
Sodium thiosulfate	Injectable	250 mg/mL	Practice
Thiamine (vitamin B1)	Injectable	100 mg/mL	Clinic/practice
Zinc sulfate	Oral tablet	66 mg 110 mg 200 mg	Clinic
	Injectable	1 mg/mL	Clinic

2.7 Antifungal Agents

Amphotericin B	Injectable	50 mg/mL	Clinic/practice
Candidicin	Topical	1% w/v	Clinic/practice
Caprylic acid	Topical	0.5% w/v	Clinic/practice
Clotrimazole	Topical	1% w/w	Clinic/practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Cuprimyxin	Topical	0.5% w/w	Clinic/ practice
Fluconazole	Oral capsule	50 mg 150 mg 200 mg	Clinic
	Injectable	2 mg/mL	Clinic
Flucytosine	Injectable	10 mg/mL	Clinic
Griseofulvin	Oral	1.5 g	Clinic
Ketoconazole	Oral	200 mg	Clinic
Nystatin	Oral	100,000 IU/mL	Clinic
Propionic acid	Oral	200 mg 300 mg	Clinic/ practice
Salicylic acid	Topical	5% w/w	Clinic/ practice
Tolnaftate	Topical	2% w/w	Clinic/ practice
Undecylenic acid	Topical	5% w/w	Clinic/ practice

2.8 Antihistamines

Cetirizine	Oral/tablet/ syrup	5 mg 10 mg	Clinic
Chlorpheniramine maleate	Tablet Syrup Injectable	4 mg 0.4 mg/mL 10 mg/mL	Clinic Clinic Clinic
Cimetidine	Tablet	200 mg 400 mg	Clinic
	Injectable	100 mg/mL	Clinic
Dimenhydrinate	Oral/tablet Injectable	50 mg/mL 50 mg/mL	Clinic Clinic
Diphenhydramine HCl	Injectable Syrup Tablet	25 mg/mL 7 mg/5 mL 25 mg	Clinic/ practice
Promethazine HCl	Injectable Tablet	50 mg/mL 10 mg 25 mg	Clinic/ practice
			Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Trimeprazine	Syrup	30 mg/5 mL	Clinic
Trimeprazine + prednisolone	Oral/tablet	5 mg + 2 mg	Clinic

2.9 Antiprotozoals

2.9.1 Anaplasma Drugs

Chlortetracycline	Injectable	10% 20%	Practice (R)
Imidocarb	Injectable	12% w/v	Clinic/ practice

2.9.2 Antibabesial Drugs

Amicarbalide	Injectable	1% solution	Practice
Diminazene	PFI	1.05 g sachet	Clinic/ practice
Imidocarb	Injectable	12% w/v	Clinic/ practice
Phenamidine	Injectable solution	5% 40%	Practice
Trypan blue	Injectable	150 mg vial	Practice

2.9.3 Anticoccidial Drugs

Amprolium	Oral	20% v/w	Practice
Clopidol	Oral	25%	Practice
Decoquinate	Premix	6% w/w	Practice
Diclazuril	Oral	0.5% w/v	Practice
Dinitolmide	Oral	5 g	Practice
Halofuginone	Oral	0.6%	Practice
Lasalocid	Oral	15% w/v	Practice
Maduramicin ammonium	Premix	10 g/kg	Practice
Monensin	Oral	200 g/kg	Practice (R)
Narasin	Premix	100 g/kg	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Nicarbazin	Premix	250 g/kg	Practice
Robenidine	In feeds	66 g/kg	Practice
Salinomycin	Premix		Practice (R)
Semduramicin	Premix	50 g/kg	Practice (R)
Sodium lasalocid	Premix	150 g/kg	Practice
Sodium salinomycin	In feeds	12% m/m	Practice (R)
Sodium sulfadimidine	Oral (in drinking water)	16% m/v	Practice
	Injectable	33.33% m/v	Practice
Sulfaclozine sodium monohydrate	Oral (in water)	300 g/kg	Practice
Toltrazuril	Oral	2.5% w/v	Practice

2.9.3.1 Anticoccidial Combinations

Dinitolmide + ethopabate	Premix	25% + 1.6% m/m	Practice
Sulfaquinoxaline + amprolium	Oral	5% + 5% w/w	Practice (R)

2.9.4 Theileria Drugs

Buparvaquone	Injectable	50 mg/mL 150 mg/mL	Practice
Parvaquone	Injectable	150 mg/mL	Practice

2.9.5 Antitrichomonial Drugs

Dimetridazole	Injectable	100 mg/mL	Clinic (R)
	Oral	200 g/kg	Clinic
Quinacrine	Injectable	100 mg/mL	Practice

2.9.6 Trypanocides

Diminazine	Injectable (PFI)	0.5 g sachet	Clinic/ practice
Diminazine + cyanocobalamin	Injectable (PFI)	0.5 g + 0.01 g sachet	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Homidium (chloride & bromide)	Injectable (PFI)	250 mg tablet	Practice
Isometamedium	Injectable (PFI)	10 g sachet	Practice

2.9.7 Antileishmania

Meglumine antimonate	Injectable	1.5 g/5 mL	Clinic
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2.10 Antiseptics & Disinfectants

Cetrimide + chlorhexidine	Topical	15% w/v + 15% w/v	Clinic/ practice
Chlorhexidine	Topical	20% solution	Clinic/ practice
Chloro- <i>m</i> -cresol	Liquid		Practice
Copper sulfate	Topical	5% solution	Practice
Ethyl alcohol	Topical	70% w/v solution	Clinic/ practice
Formaldehyde	Topical	40% solution	Clinic/ practice
Hydrogen peroxide	Topical	6% w/v solution	Clinic/ practice
Iodine tincture	Topical	2.5% w/v solution	Clinic/ practice
Isopropyl alcohol	Topical	70% w/v solution	Clinic/ practice
Lugol's iodine	Topical	2.5% w/v solution	Clinic/ practice
Phenylphenol	Topical	20% w/v solution	Clinic/ practice
Potassium permanganate	Topical	5% w/v solution	Clinic/ practice

2.11 Antiviral Agents

Amantadine	Oral	100 g	Clinic (R)
Cytarabine	Injectable (PFI)	500 mg	Clinic (R)
	Injectable (PFI)	1 g	Clinic (R)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Iodoxuridine	Topical	0.1% w/v 0.5% w/v	Clinic (R)
	Oral	1 mg	Clinic (R)
Methisazone	Oral	2.5 mg	Clinic (R)
Methotrexate	Injectable	2.5 mg/mL 25 mg/mL	Clinic (R)
Vinblastine	Injectable	1 mg/mL	Clinic
Vincristine	Injectable	1 mg vial	Clinic
		2 mg vial	
		5 mg vial	

2.12 Autonomic Drugs

Carbachol HCl	Injectable	0.2%-0.5%	Clinic
Dobutamine HCl	Injectable	0.1% 1.25% 50%	Clinic
Ephedrine HCl	Syrup	15 mg/5 mL	Clinic
	Tablet	10 mg 30 mg 50 mg	Clinic
Epinephrine HCl	Injectable	0.1-10 mg/mL	Clinic
Hyoscine	Injectable	0.1%	Clinic
	Tablet	10 mg	Clinic
Hyoscyamine	Injectable	0.5 mg/mL 1 mg/mL	Clinic/ practice
	Tablet	10 mg	Clinic
	Drops	1%	Clinic
Isoproterenol HCl	Injectable	0.2 mg/mL	Clinic
	Tablet	10 mg 15 mg	Clinic
	Tablet	15 mg	Clinic
Neostigmine Br	Tablet	15 mg	Clinic
Neostigmine methylsulfate	Injectable	0.5 mg/mL 2.5 mg/mL	Clinic
	Injectable	0.2%	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Physostigmine	Injectable	1 mg/mL	Clinic
Prazocine	Tablet	1 mg 2.5 mg	Clinic
Propranolol HCl	Injectable Tablet	1 mg/mL 10 mg 40 mg	Clinic Clinic
Yohimbine HCl	Injectable	1 mg/mL	Clinic/WL

2.13 Drugs Acting on the Cardiovascular System

Benazepril HCl	Oral	5 mg 20 mg	Clinic
Bupivacaine	Injectable	2.5 mg 5 mg 7.5 mg/mL solution	Clinic
Bupivacaine + adrenalin	Injectable	2.5 mg + 5 mg/mL (1:200,000)	Clinic/ practice
Carvedilol (disopyramide)	Tablet	3.25 mg 6.25 mg 12.5 mg 25 mg	Clinic
Clomipramine HCl	Oral/tablet	5 mg 20 mg 40 mg 80 mg	Clinic
Clonide	Oral/tablet	0.1 mg 0.2 mg 0.3 mg	Clinic
Cytopoint	Injectable	10 mg 20 mg 30 mg 40 mg	Clinic
Digoxin	Oral	0.25 mg 5 mg	Clinic
	Injectable	0.5 mg/2 mL	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Diltiazem	Oral/tablet	60 mg 120 mg	Clinic
	Injectable	5 mg/mL	Clinic
Fluoxetine	Oral/tablet	8 mg 16 mg 32 mg 64 mg	Clinic
	Injectable	50 mg/mL	Clinic
	Oral	40 mg	Clinic
	Oral	25 mg	Clinic
Imepitoin (for epilepsy)	Oral/tablet	100 mg 400 mg	Clinic
	Injectable	20 mg/mL	Clinic/ practice
Pimobendan	Oral	1.25 mg, 5 mg	Clinic
Pirimidon	Oral/tablet	50 mg	Clinic
	Oral/susp	50 mg/mL	Clinic
Procainamide	Injectable	100 mg/mL	Clinic
	Oral	500 mg	Clinic
Propentofilline	Oral	50 mg	Clinic
Propranolol	Injectable	1 mg/mL	Clinic
	Oral	10 mg 40 mg	Clinic
	Oral	100 mg 200 mg 500 mg	Clinic
Torsemide	Oral/capsule	0.062 mg 6.25 mg	Clinic
	Injectable	0.05 mg/mL 20 mg/mL	Clinic
	Oral/ susp	5 mg/mL 10 mg/mL	Clinic
Verapamil	Oral	40 mg	Clinic
Zonisamide	Oral/capsules	25 mg 50 mg 100 mg	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.14 Anesthetics & Drugs Acting on the CNS			
2.14.1 General Anesthetics			
Alfaxalone	Injectable	10 mg/mL	Clinic (R)
Althesin	Injectable	12 mg/mL	
Clorazepate	Oral/tablet	3.75 mg 7.5 mg 15 mg	Clinic (pets)
Diethyl ether	Inhalation	Volatile liquid	Clinic (R)
Halothane	Inhalation	Volatile liquid	Clinic (R)
Imepitoin (for epilepsy)	Oral/tablet	100 mg 400 mg	Clinic
Lignocaine	Injectable	0.02 mg/mL	Clinic/ practice
Menthol	Topical (gel)	0.7% m/v	Practice (R)
Methoxyflurane	Inhalation	Volatile liquid	Clinic (R)
Pentobarbital sodium	Injectable	50 mg/mL 60 mg/mL	Clinic/ practice (R)
Pentobarbital + magnesium sulfate + chloral hydrate	Injectable	1 g + 1 g + 1 g	Practice (R)
Propofol	Injectable	10 mg/mL	Clinic (R)
Sevoflurane	Inhalation	Volatile liquid	Clinic (R)
Thiamylal sodium	Injectable (PFR)	500 mg	Clinic/ practice (R)
Thiopental sodium	Injectable (PFR)	500 mg 1 g	Clinic/ practice (R)
Tiletamine + zolazepam	Injectable	50 mg/mL + 50 mg/mL powder	Clinic & WL (R)
2.14.2 Tranquillizers/Sedatives/Hypnotics & Antagonists			
Acepromazine	Injectable	2 mg/mL 10 mg/mL	Clinic/ practice (R)
	Oral/tablet	10 mg 25 mg	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Acetylpromazine maleate	Injectable	2 mg/mL 10 mg/mL	Clinic (R)
	Oral	5 mg 10 mg 25 mg	Clinic/ practice
Atipamezole	Injectable	5 mg/mL	Clinic/ practice (R)
Azaperone	Injectable	40 mg/mL	Clinic/ practice (R)
Chlorpromazine	Injectable	25 mg/mL	Clinic/ practice (R)
	Oral	25 mg 100 mg	Clinic/ practice
Clomipramine	Injectable	5 mg 20 mg 80 mg	Clinic (R)
	Injectable	5 mg/mL	Clinic/ practice (R)
	Injectable	5 mg/mL	Clinic/ practice (R)
Detomidine	Injectable	5 mg/mL	Clinic/ practice (R)
Diazepam	Injectable	5 mg/mL	Clinic/ practice (R)
Medetomidine	Injectable	1 mg/mL	Clinic (R)
Midazolam	Injectable	5 mg/mL	Clinic/ practice (R)
Romifidine	Injectable	10 mg/mL	Practice (R)
	Injectable	175.2 mg	Practice (R)
Tryptophan	Oral	Tablet	Clinic
Xylazine	Injectable	100 mg/mL 200 mg/mL	Clinic/ practice (R)
	Injectable (PFR)	500 mg	Practice (R)

2.14.3 Narcotic Analgesics & Antagonists

Alfentanil	Injectable	0.5 mg/mL 2 mg/mL	Clinic (R)
Diprenorphine	Injectable	12 mg/mL	R
Etorphine	Injectable	2.25 mg/mL	R
Etorphine + acepromazine	Injectable	2.45 mg/mL + 10 mg/mL	R

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Etorphine + methotrimeprazine	Injectable	74 mg + 18 mg/mL	R
Fentanyl	Injectable	0.4 mg/mL	Clinic/practice (R)
Fentanyl + droperidol	Injectable	0.4 mg/mL + 20 mg/mL	Clinic (R)
Methadone	Injectable	10 mg/mL	R
	Oral/tablet	10 mg	Clinic (R)
Morphine	Injectable	15 mg/mL	R
Naloxone	Injectable	0.5 mg/mL	Clinic/practice (R)
Tramadol	Oral/liquid	5 mg/mL	Clinic
	Oral/tablet	50 mg	Clinic
	Oral/extended release	50 mg 100 mg 200 mg 300 mg	Clinic

2.14.4 Skeletal Muscle Relaxants, Antagonists, & Bone/Joint Repair

Chitosan + chondroitin sulfate (20 kDa)	Oral/tablet	225 mg + 225 mg 525 mg + 525 mg	Clinic
Gallamine	Injectable	40 mg/mL	Clinic/practice
Pancuronium	Injectable	40 mg/mL	
Physostigmine	Injectable	0.5 mg/mL	
Tiludronic acid	Injectable	50 mg powder	Equine practice

2.14.5 Anticholinergics

Atropine sulfate	Injectable	1 mg/mL	Clinic/practice
Glycopyrrrolate	Injectable	1 mg/mL	Clinic

2.14.6 Adrenagics & Antiadrenagics

Dexmedetomidine	Injectable	0.5 mg/mL	Clinic
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SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Dopamine	Injectable	200 mg/5 mL	Clinic
Epinephrine	Injectable	1 mg/mL	Clinic/ practice
Isoprenaline	Injectable	0.2 mg/mL	Clinic
Prazocine	Injectable	1 mg 2.5 mg	Clinic
Propranolol	Injectable	1 mg/mL	Clinic

2.14.7 Cataleptics

Ketamine	Injectable	50 mg/mL 100 mg/mL	Clinic/ practice
Tiletamine	Injectable	Powder	Clinic/WL

2.14.8 Basal Narcotics/Sedatives

Chloral hydrate	Oral	Granules	Practice
	Injectable	40 mg/mL 100 mg/mL	Practice
Xylazine	Injectable	20 mg/mL	Clinic/ practice

2.14.9 Respiratory Stimulants

Aminophylline	Injectable	250 mg/mL	Clinic/ practice
Bemegride	Injectable	30 mg/mL	Clinic/ practice
Doxapram	Injectable	20 mg/mL	

2.14.10 Cardiac Stimulants

Dobutamine	Injectable	12.5 mg/mL	Clinic/ practice
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2.15 Electrolyte, Caloric, & Water Balance Agents

Sodium acid citrate	Oral	280 g/L solution	Equine practice
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SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Sodium bicarbonate	Injectable	4.25% solution	Clinic/ practice

2.15.2 Replacement Solutions

Calcium borogluconate	Injectable solution	5% 10% 40%	Clinic/ practice
Calcium + magnesium + glucose	Injectable	30% + 30% + 30% solution	practice
Dextran 40	Injectable	6%	Clinic/ practice
Lactated Ringer's	Injectable	BP Vet	Clinic/ practice
Ringer's solution	Injectable	BP Vet	Clinic/ practice
Sodium chloride	Injectable	0.9% solution	Clinic/ practice
Sodium monensin	Premix	200 g/kg premix	Practice

2.15.3 Caloric Agents

Glucose	Injectable solution	5% 20% 50%	Clinic/ practice
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2.15.4 Diuretics

Amiloride	Oral	5 mg	Clinic/ practice
Enalapril	Oral	2.5 mg 5 mg 10 mg	Clinic
Furosemide	Oral	12.5 mg 40 mg 50 mg	Clinic/ practice
	Injectable	50 mg/mL	

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Mannitol	Injectable	25% solution	Clinic/ practice

2.16 Drugs Used for Euthanasia

Embutramide	Injectable	200 mg/mL	Clinic/ practice
Pentobarbital	Injectable	200 mg/mL	Clinic/ practice
Sodium pentobarbitone	Injectable	200 mg/mL	Clinic/ practice

2.17 Medicinal Gases

Nitrous oxide	Compressed gas	2,500 psi	Clinic/ practice
Oxygen	Compressed gas	2,500 psi	Clinic/ practice

2.18 Gastrointestinal Tract Drugs

2.18.1 Antidiarrheals/Spasmolytics/Adsorbents & Gall Sickness

Ammonium chloride + glacial acetic acid + sucrose synergist	Oral	100 mg/mL + 100 mg/mL + 100% liquid	Practice
Bismuth carbonate	Oral	150 mg/5 mL	Clinic/ practice
Diphenoxylate + atropine	Oral tablet	2.5 mg + 0.025 mg	Clinic/ practice
Dipyrone + hyoscine	Injectable	500 mg + 4 mg/mL	Clinic/ practice
Hyoscine butylbromide	Injectable	20 mg/mL	Clinic/ practice
	Tablet	10 mg	Clinic
Hyoscyamine bromide	Injectable	1 mg/mL	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Kaolin	Oral	1.03 g/mL	Clinic/ practice
Kaolin pectate	Syrup	40 mg/5 mL	Clinic/ practice
Loperamide	Capsule	2 mg	Clinic
Nux vomica + zingiber + ammonium carbonate + cerevisiae	Oral	3.125% m/m + 6.25% m/m + 12.5% m/m + 25.0% m/m powder	Practice
Sterculia	Oral	120 mg	Clinic

2.18.2 Antihelmintics

2.18.2.1 Anticestodal Drugs

Bunamidine	Oral	200 mg	Clinic/ practice
Dichlorophen	Oral, aerosol	750 mg	Clinic
Netobimin	Injectable	150 mg/mL	Practice
Niclosamide	Oral	500 mg 4 g	Clinic/ practice
Praziquantel	Injectable	56.8 mg/mL	Clinic/ practice
	Oral	50 mg	Clinic
Resorantel	Oral	25% m/v	Practice

2.18.2.2 Antinematodal Drugs

Abamectin	Injectable, pour on, oral, premix	10 mg/mL	Practice
Albendazole	Injectable	25 mg/mL	Practice
Closantel	Injectable	5% w/v	Clinic/ practice
Diethylcarbamazine	Oral	50 mg	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Doramectin	Injectable	10 mg/mL	Practice
	Injectable solution	10 mg/mL	Clinic/ practice (R)
Eprinomectin			Practice
Febantel	Oral	25 mg/mL susp 100 mg/mL susp	Practice
Fenbendazole	Oral, topical	2.5% susp	Practice
Flubendazole	Oral	1.666% m/v	Clinic/ practice
Ivermectin	Injectable	10 mg/mL	Clinic/ practice
Levamisole	Injectable, oral	75 mg/mL	
Mebendazole	Oral	100 mg	Clinic
Monepantel	Oral	25 mg/mL	Clinic/ practice
Morental	Oral	11.8 g	Practice
Moxidectin	Injectable	1% solution	Clinic/ practice (R)
Netobimin	Injectable	150 mg/mL	Practice
Nitroscanate	Oral	100 mg 500 mg	Clinic
Nitroxynil	Injectable	340 mg/mL	Practice
Oxfendazole	Oral	750 mg bolus	Practice
Oxyclozanide	Oral	3.4% susp	Practice
Piperazine	Oral	500 mg	Clinic/ practice
Piperazine dihydrochloride	Oral	64.5% m/m	Clinic/ practice
Pyrantel embonate	Oral		
Pyrantel pamoate	Oral	50 mg	Clinic
Rafoxanide	Injectable	75 mg/mL	Practice
Thiabendazole	Oral	2.5% susp	Practice
Thiophanate	Oral	12 mg/mL syrup	Practice
Trichlorfon	Oral		Practice
Triclabendazole	Oral	10% m/v	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.18.2.3 Antitrematodal Drugs			
Closantel	Oral, injectable	5% susp	Practice
Netobimbin	Injectable	150 mg/mL	Practice
Nitroxynil	Injectable	34% w/v	Practice
Oxyclozanide	Injectable	3.4% w/v	Practice
Rafoxanide	Injectable	75 mg/mL	Practice
2.18.3 Antihelmintic Combinations			
Closantel + levamisole	Injectable	5% w/v + 7.5% w/v	Practice
Closantel + mebendazole	Injectable	5% w/v + 7.5% w/v	Practice
Derquantel + abamectin	Drench	10 mg/mL + 1 mg/mg	Practice
Emodepside + praziquantel	Topical	21.4 mg/mL + 85.8 mg/mL	Practice
Ivermectin + clorsulon	Injectable solution	1% m/v + 10% m/v	Practice (R)
Milbemax + praziquantel	Oral		Practice
Praziquantel + levamisole + closantel + ivermectin + sodium selenite + cobalt chloride	Oral	5.0% m/v + 4.00% m/v + 3.75% m/v + 0.10% m/v + 0.11% m/v + 0.11% m/v	Practice
Praziquantel + pyrantel + febantel	Oral	50 mg + 144 mg + 150 mg	Clinic
Praziquantel + pyrantel pamoate + oxantel pamoate	Oral	50 mg + 140 mg + 545 mg	Practice
Rafoxanide + levamisole	Injectable	75 mg + 75 mg/mL	Practice
Ricobendazole	Oral	10% m/v	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Triclabendazole + levamisole	Injectable	12% + 7.5%	Practice
2.18.4 Antiflatulents/Antacids & Antibloat			
Cimetidine	Oral	200 mg 400 mg	Clinic
Magnesium hydroxide + aluminum hydroxide	Oral	250 mg + 150 mg/5 mL	Clinic/ practice
Methylsilicone	Drench	25 mg/mL	Practice
Omeprazole	Oral	37% w/w	Clinic
Oxyethylene oxypropylene	Oral (in feed)	53% m/m	Practice
Poloxalene	Drench	83% liquid	Practice
Proloxalene (oxypropylene polymer)	Oral	25 g/30 mL	Practice
Ranitidine	Oral/tablets	75 mg 150 mg 300 mg	Clinic
	Injectable	25 mg/mL	Clinic
Sodium bicarbonate	Injectable	4.25% solution	Clinic/ practice
2.18.5 Cathartics/Laxatives/Purgatives/Lubricants			
Bisacodyl	Oral	5 mg	Clinic
	Oral/rectal	474 mg/g susp	Clinic/ practice
Magnesium sulfate	Oral	125 mg 500 mg	Clinic
Oreganum essential oil	Oral		
Petrolatum	Oral		Clinic
Pheromone analogue			
Sodium sulfate	Oral	1 kg pack	Practice
Sterculia	Oral	120 mg	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
White petrolatum B.P. + lecithin + cod liver + linseed oil + vitamins (A, B1, B2, B6, B12)	Oral	2 g + 250 mg/mL + 65 mg/mL + 3 mg + (500 IU, 0.2 mg, 0.1 mg, 0.2 mg, 0.5 µg)	Clinic
White soft paraffin	Oral	474 mg	Clinic

2.18.6 Digestants

Clanbutin sodium	Injectable	100 mg/mL	Clinic/ practice
Cynara	In feed	15 g 30 g	Practice
β-Mannanase	Oral	720 million units/L	Practice
Montmorillonite + maltase 700 + lysine + methionine	Premix	630.8 g/kg + 0.75 g/kg + 100.0 g/kg + 150.0 g/kg	Practice
Pancreatic enzymes	Oral	500 IU/g 10,000 IU/g	Practice
Polyethylene glycol	In water	925 g	Practice
Ractopamine HCl	Premix	20 g/kg	Practice
(R)-Salbutamol sulfate	Premix	100 g/kg	Practice
Sodium butyrate	In feed	Varies	Practice
Sodium propionate	Oral	15% m/m	Practice

2.18.7 Emetics & Antiemetics

Acetylpromazine	Injectable	2 mg/mL 10 mg/mL	Clinic/ practice
	Tablet	10 mg 25 mg	Clinic
Apomorphine	Injectable	15 mg/mL	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Chlorpromazine	Injectable	25 mg/ml	Clinic/ practice
	Oral	25 mg/5 mL syrup	Clinic
	Tablet	25 mg 100 mg	Clinic
Ipecacuanha	Oral	0.7 mL/10 mL (as liquid extract)	Clinic/ practice
Maropitant	Injectable	10 mg/mL	Clinic/ practice
	Oral	16 mg 24 mg 160 mg	Clinic/ practice
Metoclopramide	Tablet	10 mg	Clinic
Prochlorperazine	Injectable	12.5 mg/mL	Clinic
Xylazine	Injectable	2% solution	Clinic/ practice

2.19 Genito-Urinary Tract Drugs

2.19.1 Urinary Antiseptics & Antispasmodics

Ethylenediamine	Tablet	10 mg	Clinic
Hexamine	Tablet	150 mg	Clinic
Hyoscine	Injectable	4 mg/mL	Clinic

2.19.2 Diuretics

Allopurinal	Oral/tablet	100 mg	Clinic
		300 mg	
Furosemide	Injectable	50 mg/mL	Clinic/ practice
	Oral	40 mg	Clinic

2.19.3 Anti-Gout

Hydrochlorothiazide	Oral	25 mg	Clinic/ practice
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SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.20 Haemostatics			
Menadione (vitamin K3)	Injectable	50 mg/mL	Clinic/ practice
Phytomenadione (vitamin K1)	Injectable	10 mg/mL	Clinic/ practice
Protamine sulfate	Injectable	50 mg/mL	Clinic/ practice
2.21 Hormonal derivatives			
2.21.1 Corticosteroids			
Betamethasone	Injectable	2 mg/mL	Clinic/ practice
	Tablet	5 mg	Clinic
Dexamethasone	Injectable	5 mg/mL	Clinic/ practice
	Oral	2 mg 5 mg	Clinic
Isoflepredone	Injectable	2 mg/mL	Practice
Methylprednisolone	Injectable	20 mg/mL	Clinic
	Injectable	40 mg/mL 200 mg/mL	Clinic (horses)
Prednisolone	Tablet	5 mg	Clinic
	Injectable	10 mg/mL	Clinic/ practice
2.21.2 Antidiabetics			
Insulin, soluble	Injectable	40 IU/mL 100 IU/mL	Clinic/ practice
Insulin, zinc susp	Injectable	40 IU/mL 100 IU/mL	Clinic/ practice
Porcine zinc insulin	Injectable	40 IU	

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.21.3 Oxytocics			
Cloprostenol	Injectable	175 µg/2 mL	Practice
Oxytocin	Injectable	10 IU/mL	Clinic/ practice
2.21.4 Luteolysins			
Cloprostenol	Injectable	265 µg/2 mL	Practice
Dinoprost	Injectable	5 mg/mL	Practice
Luprostiol	Injectable	7.5 mg/mL	Practice
2.21.5 Tropins			
Bovine somatotrophin	Injectable	500 mg/2 mL	Practice
Trenbolone acetate + oestradiol + tylosin tartrate	Implant	140 mg + 28 mg + 29 mg	Practice (cattle)
Zeranol	Implant	12 mg 36 mg	Practice
	Pellets	12 mg	Practice
Zilpaterol	In feed	48 g/kg	Practice (cattle)
2.22 Local Anesthetics			
Lidocaine + epinephrine	Injectable	20 mg + 1 mg/mL	Clinic/ practice
Lidocaine HCl	Injectable	20 mg/mL	
Mepivacaine	Injectable	2% solution	

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.23 Metabolic Regulators (Amino Acids/Minerals/Vitamins)			
			These come in various combinations, depending on the species for which they are intended. They are mainly prepared for oral use via feeds/water although some mineral and multivitamin preparations come as injectables. When the strength of an item is stated per 100 g (of powder), this is the concentration that would normally be present in the final mixed product.
Alanine	Oral	15 mg/100 g	Clinic/ practice
Arginine	Oral	12 mg/100 g	Clinic/ practice
Aspartic acid	Oral	14 mg/100 g	Clinic/ practice
Boric acid	Injectable	33 mg/mL	Clinic/ practice
Calcium	Oral	2.5-5 g/100 g	Clinic/ practice
Calcium chloride	Injectable	100 mg/mL	Clinic/ practice
Calcium gluconate	Injectable	200 mg/mL	Clinic/ practice
Calcium phosphate	Injectable	55 mg/mL	Clinic/ practice
	Oral	50 g bolus	Practice
Canthaxanthin	Oral	8 mg/kg of feed for layers 25 mg/kg feed for broilers, salmon, trout	Clinic
Choline	Oral	1.5 g/100 g	Clinic/ practice
Chondroitin sulfate	Oral (tabs, liquid), gel		Clinic/ practice
Cobalt	Oral	0.1 g/100 g	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Copper	Oral	1.5-3 g/100 g	Clinic/ practice
Cystine	Oral	4 mg/100 g	Clinic/ practice
Dimethylglycine	In feed	5-30 g × 2/day	Practice (horses)
Flavophospholipol	Premix		
Folic acid	Oral	0.1-0.5 g/100 g	Clinic/ practice
Gleptoferron	Injectable	200 mL elemental iron	Practice (swine)
Glucosamine		187.5 mg/mL	Practice (horses)
Glutamic acid	Oral	27 mg/100 g	Clinic/ practice
Glycine	Oral	0.2-10 mg/100 g	Clinic/ practice
Hystidine	Oral	6 mg/100 g	Clinic/ practice
Inositol	Oral	0.5-1 g/100 g	Clinic/ practice
Iodine	Oral	0.2-5 g/100 g	Clinic/ practice
Iron	Injectable	100-200 mg/mL	Clinic/ practice
	Oral	5-20 g/100 g	Clinic/ practice
Isoleucine	Oral	10 mg/100 g	Clinic/ practice
Leucine	Oral	18 mg/100 g	Clinic/ practice
Lysine	Oral	15-50 g/100 g	Clinic/ practice
Magnesium	Oral	2.5-7.5 g/100 g	Clinic/ practice
Magnesium chloride	Injectable	100 mg/mL	Clinic/ practice
Manganese	Oral	10-40 g/100 g	

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Menacine	Oral	5 mg/100 g	Clinic/ practice
Methionine	Oral	10-20 g/100 g	Clinic/ practice
Nicotinamide (niacin)	Injectable	5 mg/mL	Clinic/ practice
	Oral	15-75 g/100 g	Clinic/ practice
Pantothenate	Injectable	2 mg/mL	Clinic/ practice
	Oral	5 g/100 g	Clinic/ practice
Phenylalanine	Oral	8 mg/100 g	Clinic/ practice
Phosphorus	Oral	2.5-5 g/100 g	Clinic/ practice
Potassium	Oral	0.1 g/100 g	Clinic/ practice
Proline	Oral	19 mg/100 g	Clinic/ practice
Selenium + vitamin E	Oral	500 mg/mL + 125 g/L	Practice (horses)
Serine	Oral	13 mg/100 g	Clinic/ practice
Sodium	Oral	0.25 g/100 g	Clinic/ practice
Sodium aluminosilicate	Premix (mycotoxin binder)	800 g/kg	Clinic/ practice
L-Threonine	Oral	12 mg/100 g	Clinic/ practice
		50 mg	Clinic
		100 mg	
Tryptamine	Oral	4 mg/100 g	Clinic/ practice
Tyrosine	Oral	7 mg/100 g	Clinic/ practice
Valine	Oral	17 mg/100 g	

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Vitamin A	Injectable	50,000 IU/mL	Clinic/ practice
	Oral	5-25 million IU/100 g	Clinic/ practice
Vitamin B1 (thiamine)	Injectable	10 mg/mL	Clinic/ practice
	Oral	2-10 g/100 g	Clinic/ practice
Vitamin B12 (cyanocobalamin)	Injectable	0.01-1.5 mg/mL	Clinic/ practice
	Oral	5-25 g/100 g	Clinic/ practice
Vitamin B2 (riboflavin)	Oral	2-10 g/100 g	Clinic/ practice
Vitamin B6 (pyridoxine)	Oral	2-10 g/100 g	Clinic/ practice
Vitamin B complex	Injectable	Various strengths	Clinic/ practice
Vitamin C (ascorbic acid)	Oral	10-50 g/100 g	Clinic/ practice
Vitamin D3 (cholecalciferol)	Injectable	25,000 IU/mL	Clinic/ practice
	Oral	6×10^5 - 3×10^9 IU/100 g	Clinic/ practice
Vitamin E (tocopherol)	Injectable	4 mg/mL	Clinic/ practice
	Oral	10-50 g/100 g	Clinic/ practice
Vitamin H	Oral	1-2 g/100 g	Clinic/ practice
Vitamin K3	Oral	2-10 g/100 g	Clinic/ practice
Zinc	Oral	10-40 g/100 g	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.24 Neuromuscular Blocking Agents & Antagonists			
Edrophonium	Injectable	10 mg/mL	Clinic
Gallamine	Injectable	40 mg/mL	Clinic
Glyceryl guaiacolate	Injectable	50 g/L IV infusion	Clinic/ practice
Neostigmine	Injectable	0.05%	Clinic
Pancuronium	Injectable	0.4 mg/mL	Clinic
Physostigmine	Injectable	0.05%	Clinic
Succinylcholine	Injectable	50 mg/mL	Clinic
2.25 Respiratory System Drugs			
2.25.1 Bronchial Spasm Relaxants & Respiratory Stimulants			
Clenbuterol	Injectable	30 µg/mL	Practice
Doxapram	Injectable	10 mg/mL 20 mg/mL	Clinic/ practice
Etamiphylline	Injectable	140 mg/mL	Clinic/ practice
2.25.2 Expectorants			
Butorphanol	Injectable	0.5 mg/mL	Clinic/ practice
	Oral	1 mg 5 mg 10 mg	Clinic
2.26 Drugs for Topical Conditions			
2.26.1 Acaricides			
Amitraz	Topical	12.5% w/v	Clinic/ practice
Amitraz + cypermethrin + piperonyl butoxide	Pour on	1% m/v + 1% m/v + 5% mv	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Chlорфенинфос	Topical	10% w/v 30% w/v	Practice
Deltamethrin	Topical	1% w/v 5% w/v	Practice
	Topical	0.5% pour on	
Deltamethrin + piperonyl butoxide	Topical	0.1% m/m + 0.05% m/m	Practice
Fenthion	Pour on	100 mg/mL 200 mg/mL	Clinic/ practice
Fipronil	Topical	0.25% w/v spray	Clinic
Fluazuron	Pour on	25 g/L	Clinic/ practice (R)
Flumethrin	Pour on	1% w/v 6% w/v	Practice
Lufenuron	Oral	67.8 mg tablet	Clinic
	Oral	204.9 mg 409.8 mg	Clinic
	Injectable	40 mg/mL (0.4 mL syringe) 80 mg/mL (0.8 mL syringe)	Clinic (cat) (R)
Pyriproxyfen + permethrin	Topical	12.5% m/v	Clinic
Pyripole	Topical	8 m/v + 65 m/v	Clinic

2.26.2 Drugs for Chorioptic & Sarcoptic Mange

Ivermectin	Topical	100 µg/g spot on 800 µg/g spot on	Clinic/ practice
	Topical	200 µg/mL	Clinic/ practice
Moxidectin + imidacloprid	Topical	10 mg/mL spot on 25 mg/mL spot on	Clinic
Selamectin	Topical	6%, 13% spot on	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.26.3 Drugs for Dermodectic Mange			
Amitraz	Topical	12.5% wash	Clinic/ practice
Benzyl benzoate	Topical	25% lotion	Clinic/ practice
Cydectin	Injectable	10 mg/mL	Clinic/ practice
Ivermectin	Injectable, oral, premix, topical	10 mg/mL	Clinic/ practice
2.26.4 Antiseptics & Skin Disinfectants			
Benzoyl peroxide	Topical	2.5% benzoyl peroxide, 2% pipetted sulfur	Clinic/ practice
Camphor	Topical		
Cetrimide	Topical Topical, eye powder	1% solution 2% solution	Clinic/ practice
Chlorhexidine gluconate	Topical	5% solution	Clinic/ practice
Hydrogen peroxide	Topical	6% solution	Clinic/ practice
Iodine tincture	Topical	2.5% solution	Clinic/ practice
Methyl salicylate + camphor + salicylic acid + menthol + lanolin	Topical	1% m/m + 0.5% m/m + 0.5% m/m + 0.03% m/m + 14.5% m/m	Practice
Povidone-iodine	Topical	1% solution	Clinic/ practice
Quaternary ammonium + polyguanylguanide	Topical	6.5 g/L + 50 g/L	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.26.5 Topical Antibacterials			
Chloramphenicol	Topical/ mucous membrane	1% aerosol	Clinic/ practice
Neomycin + bacitracin	Topical/ mucous membrane	Oint/powder 3,300 + 250 units	Clinic/ practice
Oxytetracycline	Topical/ mucous membrane	Spray 2.8% Powder/ointment 5%	Clinic/ practice
2.26.6 Topical Antifungals			
Bensuldazic acid	Topical	0.5% powder	Clinic/ practice
Clotrimazole	Topical	1% cream	Clinic/ practice
Enilconazole	Topical	100 mg/mL	Clinic
Eucalyptus	Topical		Clinic/ practice
Griseofulvin	Topical	33.3% w/w	Clinic/ practice
Ketoconazole	Oral	200 mg	Clinic
Miconazole	Topical	2% cream	Clinic/ practice
Nystatin	Oral	500,000 IU	Clinic/ practice
Salicylic acid	Topical	4.4% oint	Clinic/ practice
Salicylic acid + benzoic acid	Topical ointment	3% w/v + 6% w/v	Clinic/ practice
Undecylenic acid + zinc undecylenate	Topical/ mucous membranes/ ointments	5% + 20% 15 g or 50 g tube	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.26.7 Topical Anti-Inflammatory Agents			
Betamethasone	Topical	0.1% oint	Clinic/ practice
Hydrocortisone	Topical	1% cream	Clinic/ practice
Hydrocortisone aceponate	Topical	0.584 mg/mL	Clinic/ practice
Prednisolone	Injectable	10 mg/mL	Clinic/ practice
	Tablet	5 mg	Clinic/ practice
2.26.8 Anti-Inflammatory + Antibacterial Combinations			
Betamethasone + fusidic acid	Topical		Clinic
Betamethasone + gentamicin + clotrimazole	Topical		Clinic
Betamethasone + neomycin	Topical oint	0.1% w/v + 0.5% w/v	Clinic/ practice
Dexamethasone + marbofloxacin + clotrimazole	Topical	3 mg/mL	Clinic
Hydrocortisone + gentamicin + miconazole	Topical		Clinic
Kanamycin + dexamethasone + mepyramine maleate + undecylenic acid + zinc oxide	Topical	1.5 mg/g + 0.1 mg/g + 0.4 mg/g + 25 mg/g	Clinic/ practice
Mometasone + orbifloxacin + posaconazole	Topical		Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Prednisolone + neomycin	Topical oint	2.5 mg + 3.5 mg/g	Clinic/ practice
Prednisolone + polymyxin B + miconazole	Topical		Clinic

2.26.9 Astringents

Aluminum diacetate	Topical	13% w/v solution	Clinic/ practice
Lotagen	Topical	1.8% w/v gel	Clinic/ practice

2.26.10 Keratolytics

Benzoic acid + salicylic acid	Topical oint	6% + 3%	Clinic/ practice
Benzoyl peroxide	Topical	2.5% shampoo	Clinic/ practice
Coal tar	Topical	1% oint	Practice
Lindane	Topical	1% oint	Clinic/ practice

2.27 Drugs Acting on the Eye or Ear

2.27.1 Antimicrobials

Carbachol HCl	Topical/ ophthalmic	0.01% eye drop	Clinic
Chloramphenicol	Topical oint	1%, 10%	Clinic/ practice
Doxycycline + sodium sulfacetamide + cetrimide	Topical	1% m/m + 5% m/m + 1% m/m	Clinic/ practice
Gentamicin	Topical	0.3% drops	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Neomycin	Topical	0.5% w/v	Clinic/ practice
Neosporin	Topical	1% eye oint	Clinic/ practice
Oxytetracycline	Topical	1% eye oint	Clinic/ practice
Sulfacetamide	Topical	10% eye oint	Clinic/ practice

2.27.2 Antimicrobial/Anti-Inflammatory Combinations

Clotrimazole + betamethasone + gentamicin	Topical/ear drop	10 mg + 1 mg + 3 mg	Clinic/ practice
Doxycycline + neomycin	Oral powder	100 mg + 100 mg/g	Practice
Miconazole + polymyxin + prednisolone	Topical	23 mg + 5 mg + 5 mg/mL	Clinic
Neomycin + betamethasone	Topical	0.5% + 0.1%	Clinic
Neomycin + hydrocortisone	Topical	5 mg + 5 mg/mL	Clinic
Neomycin + nystatin + triamcinolone	Topical	2.5 mg/mL + 10 mg/mL + 10 mg/mL	Clinic/ practice
Nystatin + neomycin + thiostrepton + triamcinolone acetonide	Topical/ointment	100,000 units + 2.5 mg + 2,500 units + 1.0 mg	Clinic
Oxytetracycline + hydrocortisone	Topical	10 mg + 5 mg/mL	Clinic/ practice
Polymyxin B + neomycin + hydrocortisone	Topical	10 mg + 2.5 mg + 5 mg/mL	Clinic/ practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.27.3 Anti-Inflammatory Preparations			
Betamethasone	Topical	0.1% drops	Clinic/ practice
Cyclosporin A	Topical	2 mg/g	Clinic
Hydrocortisone	Topical	1% drops	Clinic/ practice
Menthol + methyl-sulfonylmethane	Topical for relieve of dermatitis	0.02% m/v + 0.02% m/v	Clinic/ practice
2.27.4 Antiseptic Preparations			
Chlorhexidine	Topical	0.4% drops	Clinic/ practice
Lactic acid + salicylic acid	Topical	2.5% + 0.1%	Clinic/ practice
Quaternary ammonium blend + lauryl betaine + ichthyol	Topical antiseptic	24 g/L + 12 g/L + 0.5 g/L	Clinic/ practice
2.27.5 Mydriatics			
Atropine	Topical	0.1% drops	Clinic/ practice
	Topical	1% oint	Clinic/ practice
Cyclopentolate HCL	Topical	0.5% drop 1% drop	Clinic
Phenylephrine	Topical	2.5% drop 10% drop	Clinic
Tropicamide	Topical	0.5% drop 1% drop	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.27.6 Topical Anesthetics			
Lidocaine	Topical/ spray/drop Topical/oint	2%	Clinic/ practice
Lidocaine + hydrocortisone	Topical		Clinic
Lidocaine + prilocaine	Topical/cream	2.5% cream	Clinic
Tetracaine	Topical/drops	0.5% solution 1% solution	Clinic

2.28 Hormones

2.28.1 Gonadotrophins

Anti-equine chorionic gonadotrophin	Injectable	1,000 IU 3,000 IU	Practice
Buserelin	Injectable	0.004 mg/mL	Practice
Fertirelin	Injectable	50 µg/mL	Practice
Follicle-stimulating hormone	Injectable	5 mg/mL	Practice
Gonadorelin	Injectable	100 µg/mL	Practice
Gonadotrophin- releasing hormone	Injectable	50 µg/mL	Practice
Human chorionic gonadotrophin	Injectable	1,500 IU 3,000 IU	Practice
Luteinizing hormone	Injectable	500 IU 1,000 IU 2,000 IU	Practice
Pregnant mare serum gonadotropin	Injectable	1,000 IU 6,000 IU	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.28.2 Estrogens			
Altrenogest	Oral	4 mg/mL	Practice (swine)
Estradiol 17 β	Implant	45 mg	Practice
Estradiol benzoate	Injectable	5 mg/mL	Clinic/ practice
Oestriol	Oral	1 mg	Clinic (dogs)
Zeranol	Implant	12–36 mg	Practice (steers, sheep)
2.28.3 Androgens			
Testosterone	Capsule	25 mg	Clinic/ practice
	Injectable	10 mg/mL 50 mg/mL	
Trenbolone	Injectable	30 mg/mL	Clinic/ practice
Trenbolone acetate + tylosin tartrate		200 mg + 29 mg	Practice
2.28.4 Progestogens			
Aglepristone	Injectable	30 mg/mL	Clinic (dog)
	Implant	12–60 mg	Practice (steers, sheep, calves, poultry)
Hexoestrol			
Medoxy-progesterone	Injectable	150 mg/mL	Clinic/ practice
Megestrol acetate	Tablet	5 mg, 20 mg	Clinic
Progesterone	Intravaginal device	0.3 g 1.9 g	Practice
Proligestone	Injectable	100 mg/mL	Clinic
Zeranol	Implant	12–36 mg	Practice (steers, sheep)

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.28.5 Combination Hormones			
Hexoestrol + trenbolone acetate	Implant	30-40 mg + 300 mg	Practice (steers)
Oestradiol-17 β benzoate + progesterone	Implant	20 mg + 200 mg	Practice (steers)
Oestradiol-17 β benzoate + testosterone propionate	Implant	20 mg + 200 mg	Practice (heifers, calves)
Oestradiol-17 β + trenbolone acetate	Implant	20 mg + 200 mg	Practice (bulls, steers, calves, sheep)
Zeranol + trenbolone acetate	Implant	36 mg + 300 mg	Practice (steers)
2.29 Biologicals/Vaccines			
2.29.1 For Cats			
Antivenom serum	Injectable	1,500 IU/vial	Clinic
Calicivirus vaccine	Injectable	50,000-200,000 vp	Clinic
<i>Enterococcus faecium</i> probiotic	Oral	2×10^{11} CFU	Clinic
Feline chlamydial infection vaccine, living	Injectable	50,000-150,000 vp	Clinic
Feline herpes virus vaccine	Injectable	50,000-400,000 vp	Clinic
Feline immunodeficiency virus vaccine	Injectable		Clinic
Feline infectious enteritis + feline rhinotracheitis + feline pneumonia	Injectable		Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Feline influenza vaccine	Injectable	50,000-300,000 vp	Clinic
Feline leukemia vaccine, inactivated	Injectable	25,000-350,000 vp	Clinic
Feline panleucopenia vaccine	Injectable	20,000-180,000 vp	Clinic
Feline viral rhinotracheitis vaccine	Injectable	30,000-220,000 vp	Clinic
Rabies vaccine	Injectable	100,000-400,000 vp/mL	Clinic
Tetanus antitoxin	Injectable	500-1,500 IU/mL	Clinic
2.29.2 For Cattle			
Anaplasma vaccine	Injectable	1×10^8 organisms/2 mL	Practice
Anthrax vaccine (spores)	Injectable	1×10^7 ppm	Practice
Antivenom serum	Injectable	1,500 IU/vial	Practice
<i>Babesia bigemina</i> vaccine	Injectable	1 mL IM	Practice
<i>Babesia bovis</i> vaccine	Injectable	1 mL IM	Practice
Bovine viral diarrhea vaccine (in combination with IBR, PI-3, BRSV)	Injectable		Practice
Bovine herpes virus vaccine	Injectable		Practice
Bovine mastitis vaccine (<i>Staphylococcus</i>)	Injectable	100 IU/mL	Practice
Bovine parainfluenza vaccine	Injectable		Practice
Bovine respiratory syncytial vaccine	Injectable		Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Bovine rotavirus vaccine	Injectable	2 mL contains $10^{7.6}$ - $10^{7.9}$ TCID ₅₀	Practice
Bovine tuberculin	Injectable	50,000 IU/mL	Practice
Bovine viral diarrhea vaccine	Injectable		Practice
<i>Brucella abortus</i> vaccine (45/20)	Injectable	150×10^9 organisms/mL	Practice
<i>Brucella</i> vaccine (S19)	Injectable	40×10^9 organisms/mL	Practice
<i>Campylobacter fetus</i> vaccine	Injectable	2 mL SC heifers 5 mL SC bulls	Practice
<i>Clostridium botulinum</i> serum + black quarter vaccine	Injectable		Practice
<i>Clostridium chauvoei</i> vaccine	Injectable		Practice
<i>Clostridium haemolyticum</i> vaccine	Injectable		Practice
<i>Clostridium perfringens</i> vaccine	Injectable	5-10 IU/2 mL	Practice
<i>Clostridium sordelli</i> vaccine (in combination with other <i>Clostridium</i> vaccine)	Injectable		Practice
<i>Clostridium tetani</i> antitoxin	Injectable	2.5 IU/mL	Practice
Contagious bovine pleuropneumonia vaccine	Injectable		Practice
Dictyocaulus viviparous vaccine	Injectable		Practice
Dininazene diaceturate + phenazone	Injectable	70 mg/mL + 375 mg/mL	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
<i>E. coli</i> vaccine			Practice
<i>Ehrlichia ruminantium</i> vaccine	Injectable, IV		Practice
Ephemeral fever vaccine	Injectable	100,000 vp/mL	Practice
Foot & mouth disease vaccine	Injectable	10 µg/mL	Practice
Hemorrhagic septicemia vaccine	Injectable	7×10^9 organisms/mL	Practice
Infectious bovine rhinotracheitis vaccine	Injectable	10×6.9 TCID ₅₀	Practice
Lumpy skin disease vaccine	Injectable	1,000 vp/mL	Practice
<i>Mannheimia haemolytica</i> (blue udder) vaccine (<i>Pasteurella haemolytica</i>)	Injectable		Practice
<i>Moraxella bovis</i> vaccine	Injectable		Practice
<i>Mycobacterium bovis</i> vaccine	Injectable	50,000 IU	Practice
<i>Mycoplasma bovis</i> vaccine	Injectable	$4.6 \times 10^{8.0}$ CFU	Practice
Rabies vaccine	Injectable	100,000-400,000 vp/mL	Practice
Rift Valley fever live vaccine	Injectable		Practice
<i>Salmonella Dublin</i> + <i>S. typhimurium</i> + <i>S. bovismorbificans</i> (calf paratyphoid inactivated polyvalent vaccine)	Injectable		Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
<i>Salmonella Dublin</i> (calf paratyphoid live vaccine)	Injectable		Practice
<i>Tritrichomonas fetus</i> vaccine	Injectable		Practice
<i>Tritrichomonas fetus</i> vaccine, <i>Campylobacter</i> <i>fetus</i> , <i>Leptospira</i> <i>canicola</i> , <i>L.</i> <i>grippotyphosa</i> , <i>L.</i> <i>hadrjo</i> , <i>L. ictero-</i> <i>haemorrhagiae</i> , & <i>L.</i> <i>pomona</i> vaccine	Injectable (concentrate)		Practice

2.29.3 For Dogs

Adenovirus type 2 vaccine	Injectable	150,000-350,000 vp	Clinic
Antivenom serum	Injectable	1,500 IU/mL	Clinic
<i>Bordetella</i> vaccine	Injectable, intranasal	50,000-150,000 organisms/mL	Clinic
Canine distemper vaccine	Injectable	150,000-350,000 vp	Clinic
Canine herpes virus	Injectables-SC		
Canine parvovirus vaccine	Injectable	25,000-500,000 vp	Clinic
Coronavirus vaccine	Injectable	200,000-450,000 vp	Clinic
<i>Enterococcus</i> <i>faecium</i> probiotic	Oral	2×10^{11} CFU	Clinic
<i>Leptospira canicola</i> vaccine	Injectable	75,000-550,000 organisms/mL	Clinic
<i>Leptospira</i> <i>ictohemorrhagica</i> vaccine	Injectable	75,000-550,000 organisms/mL	Clinic
Parainfluenza vaccine	Injectable	50,000-200,000 vp	Clinic

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Rabies vaccine	Injectable	100,000-400,000 vp	Clinic
Tetanus antiserum	Injectable	20-50 IU	Clinic
Tetanus antitoxin	Injectable	500-1500 IU/mL	Clinic

2.29.4 For Fishes

<i>Dwardsiella ictaluri</i> bacterin		Practice
<i>Edwardsiella ictalurii</i> vaccine		Practice
<i>Flavobacterium columnare</i> vaccine		Practice
<i>Streptococcus agalactiae (group B)</i> vaccine		Practice
<i>Yersinia ruckeri</i> vaccine	Aqueous	Practice

2.29.5 For Goats

Antivenom serum	Injectable	1,500 IU/mL	Practice
<i>Brucella melitensis</i> vaccine	Injectable	1×10^9 CFU/mL	Practice
<i>Clostridium novyi</i> B vaccine	Injectable		Practice
<i>Clostridium perfringens</i> B, C, D vaccine	Injectable		Practice
<i>Clostridium septicum</i> vaccine	Injectable		Practice
Contagious caprine pleuropneumonia vaccine	Injectable		Practice
<i>Corynebacterium ovis</i> vaccine	Injectable	2 mL SC	Practice
<i>Ehrlichia ruminantium</i> vaccine	Injectable, IV		Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
<i>Mannheimia haemolytica</i> (blue udder) vaccine (<i>Pasteurella haemolytica</i>)	Injectable		Practice
<i>Mycobacterium paratuberculosis</i> vaccine	Injectable	250 mg/100 mL	Practice
Orf vaccine	Injectable		Practice
Rabies vaccine	Injectable	100,000-400,000 vp	Practice
Rift Valley fever vaccine (live & inactivated)	Injectable		Practice
Tetanus antitoxin	Injectable	20-50 IU	Practice
Tetanus toxoid	Injectable	50,000 IU	Practice

2.29.6 For Horses

Antivenom serum	Injectable	1,500 IU/vial	Clinic/ practice
Canarypox virus vaccine	Injectable		Clinic/ practice
Diplonavirus vaccine	Injectable	200,000-400,000 vp	Clinic/ practice
Equine herpes virus vaccine	Injectable		Clinic/ practice
Equine influenza A1/A2 vaccine, inactivated	Injectable	100 IU + 350 IU	Clinic/ practice
Equine rhino-pneumonitis vaccine	Injectable		Clinic/ practice
Horse sickness virus vaccine	Injectable		Clinic/ practice
Rabies vaccine	Injectable	100,000-400,000 vp	Clinic/ practice
<i>Streptococcus</i> vaccine	Injectable	$10^{9.0}-10^{9.4}$ CFU	Clinic/ practice
Tetanus antitoxin	Injectable	300-1,500 IU/mL	Clinic/

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Tetanus toxoid (tetanus vaccine, inactivated)	Injectable	100,000 IU	practice
West Nile virus vaccine	Injectable		Clinic/ practice
2.29.7 For Pigs			
<i>Actinobacillus</i> <i>pleuropneumoniae</i> vaccine	Injectable	50 units each of APX I, APX II, APX III, & ONP	Practice
Antivenom serum	Injectable	1,500 IU/vial	Practice
Boar taint vaccine	Injectable	200µg/mL of GnRF	Practice
<i>E. coli</i> (enterotoxigenic strain) <i>Clostridium</i> <i>perfringens</i> type C vaccine	Injectable		Practice
<i>Erysipelothrix</i> <i>rhusiopathiae</i> vaccine	Injectable		Practice
<i>Haemophilus</i> <i>parasuis</i> vaccine	Injectable		Practice
<i>Lawsonia</i> <i>intracellularis</i> vaccine	Oral	$1 \times 10^{4.9} - 1 \times 10^{6.1}$ TCID ₅₀	Practice
<i>Mycobacterium</i> <i>hyopneumiae</i>	Injectable		Practice
Porcine circovirus vaccine	Injectable		Practice
Porcine parvovirus (<i>Erysipelothrix</i> <i>rhusiopathiae</i> type 2)/swine parvovirus vaccine	Injectable		Practice
Rabies vaccine	Injectable	100,000-400,000 vp	Practice
Swine colibacillosis (<i>E. coli</i>) vaccine	Injectable		Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.29.8 For Poultry			
Avian adenovirus vaccine	IM/SC	0.5 mL	Practice
Avian coccidiosis vaccine, living	Oral	700 oocysts/mL	Practice
Avian encephalomyelitis vaccine	Via eye drop/drinking water		Practice
Avian gut flora (not a vaccine)			Practice
Avian infectious bronchitis vaccine strain H52, living	Nasal/ocular/ water	10^3 EID ₅₀	Practice
Avian infectious bronchitis vaccine strain H120, living	Nasal/ocular/ water	10^3 EID ₅₀	Practice
Avian influenza vaccine	IM	10^8 EID ₅₀	Practice
Avian paramyxovirus vaccine	0.5 IM/SC	$10^{7.5}$ EID ₅₀	Practice
Avian paramyxovirus + Newcastle disease + turkey rhinotracheitis vaccine	0.3 IM/SC		Practice
Avian reovirus vaccine	SC		Practice
Avian rhinotracheitis vaccine			Practice
Chicken anemia vaccine	In drinking water	$1 \times 1,000$ (2,500; 5,000); $10^{6.2}$ TCID ₅₀	Practice
Chicken herpes virus vaccine	SC	0.2 mL to chicks	Practice
<i>E. coli</i> , type O78	Oral/spray	5.2×10^6 - 9.1×10^8 CFU/ds	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Egg drop syndrome vaccine	Injectable		Practice
Fowl herpes virus vaccine	Injectable		Practice
Fowl laryngotracheitis (infectious laryngotracheitis) vaccine	Injectable	$10^{2.9}$ TCID ₅₀	Practice
Fowl pox vaccine	Injectable	10^2 ID ₅₀	Practice
Fowl typhoid vaccine	Injectable		Practice
Gumboro disease vaccine (infectious bursal disease vaccine)	Nasal/ocular/ water	10^6 TCID ₅₀ /mL	Practice
Infectious coryza vaccine A, B	Injectable	1×10^8 organisms	Practice
Marek's disease vaccine	Injectable	1,000 (2,000)	Practice
<i>Mycobacterium avium</i> vaccine	Injectable	25,000 IU	Practice
<i>Mycoplasma gallisepticum</i> vaccine	Injectable		Practice
<i>Mycoplasma synoviae</i> vaccine	Injectable		Practice
Newcastle disease vaccine	Injectable	10^6 - 10^8 EID ₅₀	Practice
<i>Pastuerella multicocida</i> vaccine	Injectable		Practice
Pigeon pox virus vaccine	In water		Practice
<i>Salmonella enteriditidis</i> vaccine	In water	$1 \times 1,000$ (2,000 + 50,000)	Practice
<i>Salmonella gallinarum</i> vaccine	Injectable		Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
<i>Salmonella typhimurium</i> vaccine	In water	1 × 500 (1,000, 1,500, 2,000) doses	Practice
Swollen head syndrome virus vaccine	In water	10 × 1,000 (2,000, 5,000)	Practice
Tenosynovitis vaccine (modified Avian live reovirus vaccine)	In water		Practice
Turkey herpes virus + fowl herpes virus vaccine (Marek's disease vaccine)	Injectable	3.0log ₁₀ PFU + 3.0log ₁₀ PFU	Practice
Turkey rhinotracheitis virus vaccine	Injectable	≥10 ^{2.4} TCID ₅₀ (live)	Practice
	Injectable	≥10 ⁶ TCID ₅₀ (inactivated)	Practice

2.29.9 For Sheep

Antitetanus serum	Injectable	20-50 IU	Practice
Antivenom serum	Injectable	1,500 IU/vial	Practice
Bluetongue vaccine	Injectable	1 mL SC	Practice
<i>Brucella</i> Rev I vaccine, <i>Brucella bovis</i> vaccine	Injectable	2.5 × 10 ⁹ organisms/mL	Practice
<i>Chlamydophila abortus</i> vaccine	Injectable	10 ^{5.0} /2 mL	Practice
<i>Clostridium</i> (5) + <i>Pasteurella</i> (2) vaccine (7 in 1)	Injectable		Practice
<i>Clostridium haemoliticum</i> vaccine	Injectable		Practice
<i>Clostridium sordelli</i> vaccine	Injectable		Practice
<i>Corynebacterium</i>	Injectable	2 mL/50 kg bw	Practice

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
<i>Corynebacterium ovis</i> vaccine	Injectable	2 mL SC	Practice
<i>E. coli</i> vaccine			Practice
<i>Ehrlichia ruminantium</i> vaccine	Injectable, IV		Practice
Enterotoxaemia vaccine	Injectable		Practice
<i>Mannheimia haemolytica</i> (blue udder) vaccine (<i>Pasteurella haemolytica</i>)	Injectable		Practice
<i>Mycobacterium paratuberculosis</i> vaccine	Injectable	250 mg/100 mL	Practice
Rabies vaccine	Injectable	100,000-400,000 vp	Practice
Rift Valley fever vaccine (live & inactivated)	Injectable		Practice
<i>Staphylococcus aureus</i> vaccine + <i>Mannheimia haemolytica</i> (blue udder) vaccine	Injectable		Practice

2.30 Special Considerations

2.30.1 Special Drug List for WL Practice

Acepromazine	Injectable	10 mg/mL	WL
Alphazalone	Injectable	12 mg/mL	WL
Atipamezole HCl	Injectable	20 mg/mL	WL
Azaperone tartrate	Injectable	100 mg/mL	WL
Buprenorphine	Injectable	5 mg/mL	WL
Butorphanol tartrate/HCl	Injectable	20 mg/mL	WL

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Carfentanil	Injectable	5 mg/mL	WL
Detomidine	Injectable	20 mg/mL	WL
Diazepam	Injectable	20 mg/mL	WL
Diprenorphine HCl	Injectable	12 mg/mL	WL
Etorphine HCl	Injectable	9.8 mg/mL 10 mg/mL	WL
Fentanyl	Injectable	5 mg/mL	WL
Gallamine	Injectable	1 g powder	WL
Haloperidol	Injectable	20 mg/mL	WL
Ketamine HCl	Injectable	1 g powder 100 mg/mL	WL
Medetomidine HCl	Injectable	10 mg/mL 20 mg/mL 40 mg/mL	WL
Meloxicam SR	Injectable	10 mg/mL	WL
Midazolam HCl	Injectable	10 mg/mL 50 mg/mL	WL
Nalbuphine	Injectable	12 mg/mL	WL
Nalmefene	Injectable	12 mg/mL	WL
Naloxone HCl	Injectable	1 mg/mL	WL
Naltrexone HCl	Injectable	40 mg/mL 50 mg/mL	WL
Pentazocine	Injectable	10 mg/mL	WL
Perphenazine enanthate	Injectable	40 mg/mL	WL
Romifidine	Injectable	1 mg/mL	WL
Succinylcholine	Injectable	1 g powder	WL
Thiafentanyl oxalate	Injectable	10 mg/mL	WL
Tiletamine	Injectable	1 g powder	WL
Tolazoline HCl	Injectable	300 mg/mL	WL
Xylazine	Injectable	1 g (powder) 300 mg/mL	WL
Yohimbine HCl	Injectable	10 mg/mL 20 mg/mL	WL
Zolazepam	Injectable	1 g powder	WL
Zuclopenthixol	Injectable	50 mL/mL	WL

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
2.30.2 Medicines & Chemicals Used in Bee Health			
Amitraz	Emulsified concentrate		Bees
	Strip	0.5 g/strip	Bees
Coumaphos	Strips	32 mg/strip 1.36 g/strip 10% per strip	Bees
Flumethrin	Strips	2.1 g per strip	Bees
Formic acid	80%		Bees
Fumagillin			Bees
Lincomycin	Powder	192 g	Bees
Menthol			Bees
Oxalic acid	Solution	60%	Bees
Oxytetracycline	Powder	62.5 mg	Bees
Permethrin	Emulsified concentrate	40%	Bees (R)
Taufluvinate	Strips	80 mg/strip	Bees
Thymol			Bees
Thymol, levomenthol, eucalyptus oil, camphor, racemic			Bees
Thymol & peppermint oil			Bees
Tylosin	Powder	100 g 256 g	Bees

2.30.3 Medicines & Chemicals Used in Fish Health

Alpha methyltestosterone	Oral/feed first 28 days of life		Fish (sexual reversal in tilapia)
Atropine			Fish
Chloramine-T	Immersion		Fish
Chlortetracycline	Oral	200 mg/g premix	Fish

SECTION TWO: ESSENTIAL VETERINARY MEDICINES LIST

Drug	Dosage form	Strength	Use
Chorionic gonadotropin	Injectable		Fish
Enrofloxacin			Fish (R)
Erythromycin			Fish
Ethacridine lactate monohydrate	Topical immersion	50 mg/mL	Ornamental fish
Florfenicol	Oral	20 mg/g premix	Fish
Flumequine		3% 10% 50%	Fish
Formalin	Topical immersion		Fish
Hydrogen peroxide	Topical immersion	35%	Fish
Ivermectin			Fish
Oxytetracycline	Topical immersion		Fish
	Premix		Fish
Potassium permanganate			Fish
Sulfadimethoxine/or metoprim	Oral	Medicated feed	Fish
Sulfamerazine	Oral	Medicated feed	Fish
Tricaine methanesulfonate	Topical immersion	1,000 mg/g powder	Fish (R)

2.30.4 Miscellaneous Veterinary Products

Chlorine dioxide		Clinic
Dental composite	Topical device	Clinic
Dental/oral freshener	Oral/spray	
Dental polish	Oral/chewable	Clinic

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Essential Veterinary Medicines List for Uganda 2020
Ministry of Agriculture, Animal Industry, & Fisheries
Directorate of Animal Resources