

GLOBAL REPOSITORY OF AVAILABLE GUIDELINES FOR RESPONSIBLE USE OF ANTIMICROBIALS IN ANIMAL HEALTH

The growing emergence of resistance to antimicrobials is a threat to humans, animals and the environment. This is an increasing global concern and many countries around the world have already taken measures to tackle the development of Antimicrobial Resistance (AMR).

In the context of promoting prudent use of antimicrobials under veterinary supervision, the World Veterinary Association (WVA) and the World Organisation for Animal Health (OIE) conducted in 2018 a survey in order to create a global repository of available guidelines for responsible use of antimicrobials in animal health (click [here](#) for the summary of survey results).

Hereafter, you will find a list of 133 guidelines, action plans and promotional material on prudent use of antimicrobials, covering large number of countries, languages, veterinary aspects and animal species.





Access to these guidelines shall serve veterinarians and other health professionals to identify best practices for antimicrobials use in animal health and to fight the development of antimicrobial resistance.





While the policy statements provided in the repository are useful in guiding and developing the profession's general understanding of and response to AMR, what is really needed is clinical guidance that is specific with respect to animal species, infectious diseases and therapeutics, that is relevant to the country of practice. We encourage the ongoing development of such clinical guidance by WVA member associations, and their professional special interest branches.

The below list of includes guidelines, action plans, promotion material and technical reports that were prepared by veterinary associations, governments, veterinary schools, industry and others. The WVA is not responsible for the content of the material. The WVA will continuously update this list, so if you see any information lacking, any mistakes or you would like to add guidelines to this list, please inform the WVA secretariat at secretariat@worldvet.org



Available guidelines for the responsible use of antimicrobials in Animal Health




Click on your preferred language to access the guidelines.

Country	Guidelines name	Language	Specie	Prepared by
Argentina 	Strategy for the Control of Antimicrobial Resistance)	Spanish	General	Ministry of Health and Ministry of Agriculture, Livestock and Fisheries
Australia 	Antimicrobial stewardship guidelines for the Australian cattle feedlot industry	English	Cattle	Meat & Livestock Australia (MLA)
Austria 	National Action Plan for Antibiotic Resistance (Nationaler Aktionsplan zur Antibiotikaresistenz)	German	General	Social Ministry of Austria
Belgium 	Guidelines for Responsible Use of Antibacterial Agents in Animals (Formularium voor Verantwoord Gebruik van Antibacteriële Middelen bij Dieren)	Dutch French	Dogs, cats, equine, poultry, cattle and swine	Federal national authorities - Centre of Expertise on Antimicrobial Consumption and Resistance in Animals (AMCRA)
	Belgian Antibiotic Policy Coordination Committee Policy paper for the 2014-2019 term	English	General	Belgian commission for the coordination of antibiotic policy (BAPCOC)

<p>Brazil</p> 	<p>National Action Plan for Prevention and Control of Antimicrobial Resistance in the Agriculture field 2018-2020 (Plano De Ação Nacional De Prevenção E Controle Da Resistência Aos Antimicrobianos, No Âmbito Da Agropecuária 2018-2020)</p>	<p>Portugese</p>	<p>General</p>	<p>Ministry of Agriculture of Brazil</p>
<p>Canada</p> 	<p>Canadian Veterinary Medical Association - Antimicrobial prudent use guidelines 2008 for beef cattle, dairy cattle, poultry, and swine</p>	<p>English</p>	<p>Beef cattle, dairy cattle, poultry, and swine</p>	<p>Canadian Veterinary Medical Association</p>
	<p>Federal Action Plan on antimicrobial resistance and use in Canada</p>	<p>English</p>	<p>General</p>	<p>Public Health Agency of Canada</p>
	<p>Antimicrobial resistance and animals - Actions</p>	<p>English</p>	<p>General</p>	<p>Government of Canada</p>
	<p>Antimicrobial Stewardship</p>	<p>English French</p>	<p>General</p>	<p>Canadian Animal Health Institute (CAHI)</p>
	<p>CFIA Science Fact Sheet: Antimicrobial Resistance</p>	<p>English</p>	<p>General</p>	<p>Canadian Food Inspection Agency</p>
<p>Czech Republic</p> 	<p>Akční plán Národního antibiotického programu pro období 2011-2013 (Action Plan of the National Antibiotic Program for the period 2011-2013)</p>	<p>Czech</p>	<p>General</p>	<p>Ministry of Health</p>
<p>Colombia</p> 	<p>Minister of Health promotes the 12 rules against Antimicrobial Resistance (Minsalud Promueve Los 12 Mandamientos Contra La Resistencia Antimicrobiana)</p>	<p>Spanish</p>	<p>General</p>	<p>Ministry of Health of Colombia</p>






	<p>The ICA and international organizations for Human and Animal Health united for the responsible use of Antimicrobials (El ICA y Organismos Internacionales Competentes De La Salud Humana Y Animal, Unidos Por El Uso Responsable De Los Antimicrobianos)</p>	Spanish	General	Colombian Agricultural Institute (ICA)
	<p>National Plan of Response to The Resistance to Antimicrobials (Plan Nacional De Respuesta A La Resistencia A Los Antimicrobianos)</p>	Spanish	General	Medicines and Health Technologies director - Health Ministry of Colombia
<p>Denmark</p> 	<p>Antibiotic Use Guidelines for Companion Animal Practice - 2nd edition (Antibiotikavejledning til familiedyr, 2. udgave)</p>	English Danish App in Danish	Companion animals	Danish Veterinary Association
	<p>Antibiotic Use Guidelines for Horses (Antibiotikavejledning til heste)</p>	Danish App (in Danish)	Horses	Danish Veterinary Association
	<p>Guidelines on Prescription of Antibiotics to Pigs (Vejledning om ordinering af antibiotika til svin)</p>	Danish	Pigs	Danish Veterinary and Food Administration
	<p>Antibiotic Use Guidelines for Cattle (Antibiotikavejledningen for kvæg)</p>	Danish	Cattle	Danish Veterinary and Food Administration






	Guidelines for Use of Antibiotics for Cattle in Denmark (Retningslinjer for brug af antibiotika til kvæg i Danmark)	Danish	Cattle	Danish Veterinary Association, SEGES Cattle, University of Copenhagen, Aarhus University
Estonia 	Action Plan for Reducing the Antimicrobial Resistance of Microbes in the field of veterinary medicine 2017–2021 (Mikroobide Antibiootikumiresistentsuse Vähendamise Tegevuskava Veter Inaarmeditsiini Valdkonnas Aastateks 2017-2021)	Estonian	General	Ministry of Rural Affairs of Estonia
	Recommendations for Prudent Use of Antibiotics in the Treatment of Bacterial Infections in Different Animal Species (Soovitused Antibiootikumide Mõistlikuks Kasutamiseks Eri Loomaliikide Bakteriaalsete Infektsioonide Ravis)	Estonian	General	The Veterinary and Food Board (VFB)
	Recommendation for Antimicrobials Use in the Treatment of Cattle Diseases (Antibiootikumide Kasutamise Soovitused Veiste Haiguste Ravis)	Estonian	Cattle	The Veterinary and Food Board (VFB)
	Recommendation for Antimicrobials Use in the Treatment of Swine Diseases (Antibiootikumide Kasutamise Soovitused Sigade Haiguste Ravis)	Estonian	Pigs	The Veterinary and Food Board (VFB)
European Commission 	Guidelines for the prudent use of antimicrobials in veterinary medicine (2015/C 299/04)	English In all EU languages	General	European Commission


	A European One Health Action Plan against Antimicrobial Resistance (AMR)	English	General	
Federation of Veterinarians for Europe 	<u>FVE variety of guidelines for responsible use of antibiotics :</u> <ul style="list-style-type: none"> • Responsible use of antibiotics for the public • Responsible use of antibiotics for the health professionals • Responsible use of antibiotics with advice for farmers • Responsible use of antibiotics with advice for companion animals' owners • Responsible use of antibiotics with advice for horse owners • Responsible use of antibiotics for veterinarians 	In all EU languages	General	FVE in collaboration with other organisations
Finland 	National Action Plan on Antimicrobial Resistance 2017–2021	English	General	Ministry of Social Affairs and Health
	Recommendations for the use of antimicrobial agents in major animal infectious and infectious diseases (Mikrobilääkkeidenkäyttösuositukset eläinten tärkeimpiin tulehdus- ja tartuntatauteihin)	Finnish	General	Finnish Food Authority
France 	Good Practices Recommendations for The Use of Antibiotics in The Avian Sector - 2017 (Recommandations de Bonnes Pratiques D'utilisation des Antibiotiques en Filiere Aviaire –2017)	French	Avian	National Society of Veterinary Technical Groups (SNGTV)







Good Practices Recommendations for the Use of Antibiotics in Small Ruminants -2018 (Recommandations de Bonnes Pratiques D'utilisation des Antibiotiques en Filiere Petits Ruminants -2018)	French	Small Ruminants	
Good Practices Recommendations for the Use of Antibiotics in Bovine (2017) (Recommandations de Bonnes Pratiques D'utilisation des Antibiotiques en Filiere Bovine 2017)	French	Bovine	
Antibiotics for Us is Not Automatic 2012 (Les Antibiotiques Pour Nous Non Plus C'est Pas Automatique 2012)	French	Dogs and Cats	Ministry of Agriculture, Food and Forestry
The French National Plan for The Reduction of the Risks of Antimicrobial Resistance in Veterinary Medicine 2017-2021	English	General	
Good Practices Guidelines for Antibiotics Use in Companion Animals 2017 (Guide De Bonnes Pratiques Filière Animaux De Compagnie Fiches De Recommandations Pour Un Bon Usage Des Antibiotiques 2017)	French	Companion Animals	Association Française des Vétérinaires pour Animaux de Compagnie (AFVAC)
Antibiotics, How Necessary, When it is Necessary (Les Antibios, Comme il Faut, Quand il Faut)	French	General	Ministry of Agriculture, Food and Forestry
ECOANTIBIO PLAN 2012-2016 Summary and Key Achievements	English	General	


	The Vaccination- Health Investment for Your Animals (Nourri Loge Vaccine - La Vaccination, L'investissement Santé de Vos Animaux)	French	General	
Germany 	Guidelines for careful handling of antibacterial veterinary drugs (Bundestierärztekammer (BTK) Leitlinien für den sorgfältigen Umgang mit antibakteriell wirksamen Tierarzneimitteln)	German	General	Federal Veterinary Office (BTK)
	DART 2020 Fighting antibiotic resistance for the good of both humans and animals	English	General	Federal Ministry of Health, Federal Ministry of Food and Agriculture and the Federal Ministry of Education and Research
India 	National action plan on Antimicrobial Resistance	English	General	Ministry of Health and Family Welfare
Italy 	Biosecurity and correct and rational use of antibiotics in animal husbandry (Biosicurezza e uso corretto e razionale degli antibiotici in zootecnia)	Italian	General	Ministry of Health
Ireland 	Ireland's National Action Plan on Antimicrobial Resistance 2017-2020	English	General	Department of Health
Japan 	National Action Plan on Antimicrobial Resistance (AMR) 2016-2020	English	General	Government of Japan

	Guidebook for Cattle Respiratory Disease (BRDC) Treatment in Japan (牛呼吸器病における抗菌剤治療 ガイドブック 改訂第2版)	Japanese	Bovine	Ministry of Agriculture, Forestry and Fisheries of Japan
	Guidebook for Swine Respiratory Disease (PRDC) Treatment in Japan (豚呼吸器病における抗菌剤治療 ガイドブック)	Japanese	Swine	Ministry of Agriculture, Forestry and Fisheries of Japan
Kenya 	National Policy for the Prevention and Containment of Antimicrobial Resistance June 2017	English	General	Ministry of Health of Kenya
Korea 	National Action Plan on Antimicrobial Resistance 2016 – 2020	Korean	General	Ministry of health and welfare
Luxembourg 	National Antibiotic Plan 2018-2022 (Plan National Antibiotiques 2018-2022)	French	General	Ministry of Health and the Ministry Agriculture, of Viticulture and Consumer protection of Luxembourg
Mexico 	National Strategy Action against Antimicrobial Resistance in Mexico (Estrategia Nacional de Acción contra la Resistencia a los Antimicrobianos en México)	Spanish	General	Federal Commission for Protection from Health Risks
New Zealand 	New Zealand Antimicrobial Resistance Action Plan	English	General	Ministry of Health and Ministry for Primary Industries
	Guidelines for the clinical use of antimicrobial agents in the treatment of dogs and cats	English	Dogs and cats	New Zealand Veterinary Association


	Antibiotic judicious use guidelines for the New Zealand veterinary profession - Equine	English	Equine	New Zealand Veterinary Association
	Antibiotic judicious use guidelines for the New Zealand veterinary profession - Dairy	English	Dairy	New Zealand Veterinary Association
	Guide to prudent use of antimicrobial agents in Red meat production	English	Red meat production	New Zealand Veterinary Association
Nigeria 	National One Health Strategic Plan 2019 – 2023	English	General	Federal Republic of Nigeria: Federal Ministry of Health, Federal Ministry of Agriculture and Rural Development, Federal Ministry of Environment
	National Action Plan for AMR 2017 – 2022	English	General	
Norway 	Guidelines on use of antibiotics in terrestrial food-producing animals	Norwegian	Terrestrial food-producing animals	The Norwegian Medicines Agency
	Guidelines on use of antibiotics in dogs and cats	Norwegian	Dogs and cats	The Norwegian Medicines Agency
	Guidelines on use of antibiotics in horses	Norwegian	Horses	The Norwegian Medicines Agency
	National Strategy against Antibiotic Resistance 2015 –2020	English	General	Norwegian Ministry of Health and Care Services

	The Norwegian Livestock Industry's Joint Action Plan on Antimicrobial Resistance	English	Livestock	The Norwegian livestock industry
Peru 	National Plan to Face the Resistance to Antimicrobials 2017 – 2021 (Plan Nacional Para Enfrentar La Resistencia A Los Antimicrobianos 2017-2021)	Spanish	General	Ministry of Health of Peru
Philippines 	The Philippine Action Plan to Combat Antimicrobial Resistance: One Health Approach	English	General	Department of Health, the Inter-agency Committee on Antimicrobial Resistance (ICAMR) and the Department of Agriculture of the Philippines
Romania 	National Guide to Prudential Use of Antimicrobials in Veterinary Medicine- 2016 (Ghidul Național Privind Utilizarea Prudentă A Antimicrobienuelor În Medicina Veterinară - 2016)	Romanian	General	The National Sanitary Veterinary and Food Safety Authority (ANSVSA)
South Africa 	Technical Guidelines for Responsible and Prudent Use of Antimicrobials in Veterinary Medicine in South Africa	English	General	The Medicine Committee of the South African Veterinary Association
	Guidelines for The Use of Antimicrobials in The South African Pig Industry	English	Pigs	Pig Veterinary society of the South African Veterinary Association
	Guidelines for The Use of Antimicrobials in Poultry in South Africa	English	Poultry	South African Veterinary Association
	SAAHA Proposal – Managing Antibiotic Resistance	English	General	South African Animal Health Association (SAAHA)

	Rules Relating to Good Pharmacy Practice	English	General	The South African Pharmacy Council
	Guidelines on Implementation of The Antimicrobial Strategy in South Africa: One Health Approach and Governance, June 2017	English	General	Ministerial advisory committee on Antimicrobial Resistance – National department of Health affordable medicines directorate
	The One Health Stewardship of Colistin As an Antibiotic of Last Resort for Human Health in South Africa	English	General	Division of Infectious Diseases and HIV Medicine, Department of Medicine, Groote Schuur Hospital, University of Cape Town
	Antimicrobial Resistance National Strategy Framework 2014-2024	English	General	Health department : Republic of South Africa
Spain 	Strategic Plan and Action to Reduce the Risk of Selection and Dissemination of The Resistance to Antibiotics (Plan Estratégico Y De Acción Para Reducir El Riesgo De Selección Y Diseminación De La Resistencia A Los Antibióticos)	Spanish	General	Strategic Plan by the Spanish Agency of Medicines and Sanitary Products
	National Plan against Antibiotic Resistance 2019 - 2021 (Plan Nacional frente a la Resistencia a los Antibióticos (2019-2021))	Spanish	General	Ministry of Health and Social Welfare



	Vetresponsible – Spanish initiative for promoting the responsible use of veterinary medicines, including antibiotics (uso responsable de los medicamentos veterinarios)	Spanish	General	Ministry of Science and Innovation and Vet+i
Sweden 	Regulations of The National Agricultural Agency on Medicinal Products and Drug Use (Föreskrifter Om Ändring I Statens Jordbruksverks Föreskrifter (SJVFS 2013:42) Om Läkemedel Och Läkemedelsanvändning)	Swedish	General	The National agriculture agency
	Dosage of Antibiotics for Dogs - Treatment Recommendation (Dosering Av Antibiotika Till Hund – Behandlingsrekommendation)	Swedish	Dogs	The Medical Product Agency
	Dosage of Antibiotics for Cattle and Sheep - New Recommendation (Dosering Av Antibiotika Till Nötkreatur Och Får – Ny Rekommendation)	Swedish	Cattle and sheeps	The Medical Product Agency
	Drug Treatment For Infections In Poultry (Läkemedelsbehandling Av Infektioner Hos Fjäderfä)	Swedish	Poultry	The Medical Product Agency
	Dosage of Antibiotics for Horses - Treatment Recommendation (Dosering Av Antibiotika Till Häst – Behandlingsrekommendation)	Swedish	Horses	The Medical product Agency
	The Swedish Veterinary Association's Antibiotic Policy (Sveriges Veterinärförbunds Antibiotikapolicy)	Swedish	General	The Swedish Veterinary Association



	Guidelines for The Clinical Use of Antibiotics in The Treatment of Dogs and Cats (Antibiotikapolicy För Hund Och Kattsjukvård)	English Swedish	Dogs and Cats	The Swedish Veterinary Association
	Guidelines for Use of Antibiotics in Horse Care (Riktlinjer för användning av antibiotika inom hästsjukvård)	Swedish	Horses	The Swedish Veterinary Medical Association
	Swedish Strategy to Combat Antibiotic Resistance	English	General	Strategy Plan by the Ministry of Health and Social Affairs - Government Offices of Sweden
	Cross-Sectoral Action Plan Against Antibiotic Resistance 2018-2020 (Tvärsektoriell handlingsplan mot antibiotikaresistens 2018-2020)	Swedish	General	The Public Health Agency
	Guidelines for The Use of Antibiotics in Production Animals	English	Cattle, pigs, sheep and goats	The Swedish Veterinary Association
	Guidelines for the use of antibiotics in cattle and pigs (Sveriges Veterinärmedicinska Sällskaps Riktlinjer För Antibiotikaanvändning Till Nötkreatur Och Gris)	Swedish	Cattle and pigs	
	Guidelines for the use of antibiotics in sheep and goats (Sveriges Veterinärmedicinska Sällskaps Riktlinjer För Antibiotikaanvändning Till Får Och Get)	Swedish	Sheep and Goats	

Switzerland 	Appropriate Use of Antibiotics (Sachgemässer Antibiotikaeinsatz)	German French Italian	General	Government of Switzerland
	Prudent Use of Antimicrobials in Dogs and Cats	French German	Dogs and Cats	Swiss Veterinary Association in collaboration with Bern and Zurich Universities
	Prudent Use of Antimicrobials in Bovine and Swine	French German	Bovine and Swine	
	Starting Shot AntibioticScout: Online Decision Support for Prudent Use of Antimicrobial Agents (Startschuss AntibioticScout : Online-Entscheidungshilfe Für Den Umsichtigen Einsatz Von Antimikrobiellen Wirkstoffen) Flyer Antibiotic Scout in German Flyer Antibiotic Scout in French Flyer Antibiotic Scout in Italian	German German French Italian	General	Institute of Veterinary Pharmacology and Toxicology - University of Zurich
	Guidelines for Prudent Antimicrobial use of veterinary medical Products (Richtlinien zum sorgfältigen Umgang mit Tierarzneimitteln)	German	General	The Suisse Veterinary association
	StAR: Strategy on Antibiotic Resistance Switzerland Strategie Antibiotikaresistenzen Schweiz	English German French	General	The Suisse confederation
	Application of Antimicrobial Agents Guideline (2018) (Richtlijn Toepassen van antimicrobiële middelen)	Dutch	General	The Royal Dutch Veterinary Association (KNMVD)

<p>The Netherlands</p> 	<p>Guideline for Bacterial Urinary Tract Infections in Dogs and Cats (2018) (Richtlijn Bacteriële Urineweg-Infecties Bij Hond en Kat)</p>	Dutch	Dogs and Cats	<p>The Veterinary Antibiotic Policy Working Group (WVAB) of the Royal Dutch Veterinary Association</p>
	<p>Antimicrobial Directive for Dry Cows (2018) (Richtlijn Antimicrobiële Middelen Bij Het Droogzetten van Koeien)</p>	Dutch	Cows	
	<p>Guidelines for Broiler Chickens (2017) (Richtlijn Vleeskuikens Vastgesteld Door Knmvd)</p>	Dutch	Chickens	
	<p>Guidelines for External Otitis in Dogs and Cats (2017) (Richtlijn Otitis Externa Bij Hond En Kat)</p>	Dutch	Dogs and Cats	
	<p>Guidelines for Streptococcus in Weaned Piglets (2017) (Richtlijn Streptococcus Suis Bij Gespeende Biggen)</p>	Dutch	Piglets	
	<p>The Veterinary Antibiotic Policy Working Group (WVAB) Guidelines (werkgroep Veterinair Antibioticum Beleid -Formularia)</p>	Dutch	General	
	<p>Antibiotic Policy Guideline for Poultry (July 2012) (Formularium Pluimvee 2012)</p>	Dutch	Poultry	
	<p>Antibiotic Policy Guideline for Pigs (2012) (Formularium Varken 2012)</p>	Dutch	Pigs	
	<p>Antibiotic Policy Guideline for Calves and Cattle for Meat (2017) (Formularium Vleeskalveren En Vleesvee (2017)</p>	Dutch	Calves and Cattle for Meat	

	Antibiotic Policy Guideline for Dairy Cattle (2016) (Formularium Melkvee 2016)	Dutch	Dairy Cattle	
	Antibiotic Policy Guideline for Goats (2012) (Formularium Geiten 2012)	Dutch	Goats	
	Antibiotic Policy Guideline for Sheep (2012) (Formularium Schapen 2012)	Dutch	Sheep	
	Antibiotic Policy Guideline for Rabbits (Food Production and Exhibitions) (2017) (Formularium Konijnen - Voedselproductie En Tentoonstellingen 2017)	Dutch	Rabbits	
	Antibiotic Policy Guideline for Fish (2015) (Formularium Consumptievis 2015)	Dutch	Fish	
	Antibiotic Policy Guideline for Horses June (2016) (Formularium Paard 2016)	Dutch	Horses	
	Antibiotic Policy Guideline for Companion Animals Dog, Cat and Rabbit (2017) (Formularium Gezelschapsdieren Hond, Kat En Konijn 2017)	Dutch	Companion Animals Dog, Cat and Rabbit	

Turkey 	Strategic Plan (2010-2014) (Stratejik Plan (2010-2014))	Turkish	General	Republic of Turkey - Ministry Of Agriculture And Forestry
United Kingdom 	Tackling Antimicrobial Resistance 2019–2024 The UK’s Five-Year National Action Plan	English	General	Global and Public Health Group, Emergency Preparedness and Health Protection Policy Directorate
	Contained and controlled- The UK’s 20-year vision for antimicrobial resistance	English	General	
United States of America 	Guidelines for Veterinary Prescription Drugs	English	General	American Veterinary Medical Association
	Judicious Therapeutic Use of Antimicrobials	English	General	American Veterinary Medical Association
	Antimicrobial Use and Antimicrobial Resistance	English	General	American Veterinary Medical Association
	Antimicrobial Stewardship Definition and Core Principles	English	General	American Veterinary Medical Association
	The Role of the Veterinarian in Animal Antimicrobial Use	English	General	American Veterinary Medical Association
	Disposal of Unwanted Medications	English	General	American Veterinary Medical Association
	Key Elements for Implementing Antimicrobial Stewardship Plans in Bovine Veterinary Practices Working with Beef and Dairy Operations	English	Bovine	American Association of Bovine Practitioners (AABP)
Prudent Antimicrobial Use Guidelines for Cattle	English	Cattle	American Association of Bovine Practitioners (AABP)	

	Basic Guidelines of Judicious Therapeutic Use of Antimicrobials in Pork Production	English	Swine	AASV Pharmaceutical Issues Committee - American Association of Swine Veterinarians (AASV)
	Basic Guidelines for Judicious Therapeutic Use of Antimicrobials Revised 2014	English	Cats and Dogs	American Association of Feline Practitioners and American Animal Hospital Association
	American Association of Small Ruminant Practitioners Policy Manual	English	Small Ruminant	American Association of Small Ruminant Practitioners
	McDonald's Global Vision for Antibiotic Stewardship in Food Animals	English	Livestock	McDonald's Corporation
	Tyson: Antibiotics, Hormones & Steroids	English	Poultry	Tyson - food company
	Cargill: Antibiotics	English	Livestock	Cargill Company
	Milk & Dairy Beef Drug Residue Prevention Reference Manual 2019	English Spanish	Milk and Meat Beef	US Dairy Industry
Zambia 	Multi-sectoral National Action Plan on Antimicrobial Resistance	English	General	Ministry of Health and the Ministry of Fisheries and Livestock
Zimbabwe 	Zimbabwe One Health Antimicrobial Resistance National Action Plan 2017-2021 - Strategic Framework, Operational Plan, and Monitoring and Evaluation Plan	English	General	Government of Zimbabwe