

- **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 102 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](mailto: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
<b>Austria</b> 	<b>National Action Plan for Antibiotic Resistance</b> (Nationaler Aktionsplan zur Antibiotikaresistenz)	<a href="#">German</a>	General	Social Ministry of Austria
<b>Brazil</b> 	<b>National Action Plan for Prevention and Control of Antimicrobial Resistance in the Agriculture field 2018-2020</b> (Plano De Ação Nacional De Prevenção E Controle Da Resistência Aos Antimicrobianos, No Âmbito Da Agropecuária 2018-2020)	<a href="#">Portugese</a>	General	Ministry of Agriculture of Brazil
<b>Canada</b> 	<b>Canadian Veterinary Medical Association - Antimicrobial prudent use guidelines 2008 for beef cattle, dairy cattle, poultry, and swine</b>	<a href="#">English</a>	Beef cattle, dairy cattle, poultry, and swine	Canadian Veterinary Medical Association
	<b>Federal Action Plan on antimicrobial resistance and use in Canada</b>	<a href="#">English</a>	General	Public Health Agency of Canada
	<b>Antimicrobial resistance and animals - Actions</b>	<a href="#">English</a>	General	Government of Canada
	<b>Antimicrobial Stewardship</b>	<a href="#">English</a> <a href="#">French</a>	General	Canadian Animal Health Institute (CAHI)
	<b>CFIA Science Fact Sheet: Antimicrobial Resistance</b>	<a href="#">English</a>	General	Canadian Food Inspection Agency






<b>Colombia</b> 	<b>Minister of Health promotes the 12 rules against Antimicrobial Resistance</b> (Minsalud Promueve Los 12 Mandamientos Contra La Resistencia Antimicrobiana)	<a href="#">Spanish</a>	General	Ministry of Health of Colombia
	<b>The ICA and international organizations for Human and Animal Health united for the responsible use of Antimicrobials</b> (El ICA y Organismos Internacionales Competentes De La Salud Humana Y Animal, Unidos Por El Uso Responsable De Los Antimicrobianos)	<a href="#">Spanish</a>	General	Colombian Agricultural Institute (ICA)
	<b>National Plan of Response to The Resistance to Antimicrobials</b> (Plan Nacional De Respuesta A La Resistencia A Los Antimicrobianos)	<a href="#">Spanish</a>	General	Medicines and Health Technologies director - Health Ministry of Colombia
<b>Denmark</b> 	<b>Antibiotic Use Guidelines for Companion Animal Practice - 2<sup>nd</sup> edition</b> (Antibiotikavejledning til familiedyr, 2. udgave)	<a href="#">English</a> <a href="#">Danish</a> <a href="#">App in Danish</a>	Companion animals	Danish Veterinary Association
	<b>Antibiotic Use Guidelines for Horses</b> (Antibiotikavejledning til heste)	<a href="#">Danish</a> <a href="#">App (in Danish)</a>	Horses	Danish Veterinary Association

	<b>Guidelines on Prescription of Antibiotics to Pigs</b> (Vejledning om ordinerung af antibiotika til svin)	<a href="#">Danish</a>	Pigs	Danish Veterinary and Food Administration
	<b>Antibiotic Use Guidelines for Cattle</b> (Antibiotikavejledningen for kvæg)	<a href="#">Danish</a>	Cattle	Danish Veterinary and Food Administration
	<b>Guidelines for Use of Antibiotics for Cattle in Denmark</b> (Retningslinjer for brug af antibiotika til kvæg i Danmark)	<a href="#">Danish</a>	Cattle	Danish Veterinary Association, SEGES Cattle, University of Copenhagen, Aarhus University
<b>Estonia</b> 	<b>Action Plan for Reducing the Antimicrobial Resistance of Microbes in the field of veterinary medicine 2017–2021</b> (Mikroobide Antibiootikumiresistentsuse Vähendamise Tegevuskava Veter Inaarmeditsiini Valdkonnas Aastateks 2017-2021)	<a href="#">Estonian</a>	General	Ministry of Rural Affairs of Estonia
	<b>Recommendations for Prudent Use of Antibiotics in the Treatment of Bacterial Infections in Different Animal Species</b> (Soovitused Antibiootikumide Mõistlikuks Kasutamiseks Eri Loomaliikide Bakteriaalsete Infektsioonide Ravis)	<a href="#">Estonian</a>	General	The Veterinary and Food Board (VFB)
	<b>Recommendation for Antimicrobials Use in the Treatment of Cattle Diseases</b> (Antibiootikumide Kasutamise Soovitused Veiste Haiguste Ravis)	<a href="#">Estonian</a>	Cattle	The Veterinary and Food Board (VFB)
	<b>Recommendation for Antimicrobials Use in the Treatment of Swine Diseases</b> (Antibiootikumide Kasutamise Soovitused Sigade Haiguste Ravis)	<a href="#">Estonian</a>	Pigs	The Veterinary and Food Board (VFB)


<p><b>European Commission</b></p> 	<p><b>Guidelines for the prudent use of antimicrobials in veterinary medicine (2015/C 299/04)</b></p>	<p><a href="#">English</a> <a href="#">In all EU languages</a></p>	<p>General</p>	<p>European Commission</p>
<p><b>Federation of Veterinarians for Europe</b></p> 	<p><b><u>FVE variety of guidelines for responsible use of antibiotics :</u></b></p> <ul style="list-style-type: none"> <li>• Responsible use of antibiotics for the public</li> <li>• Responsible use of antibiotics for the health professionals</li> <li>• Responsible use of antibiotics with advice for farmers</li> <li>• Responsible use of antibiotics with advice for companion animals' owners</li> <li>• Responsible use of antibiotics with advice for horse owners</li> <li>• Responsible use of antibiotics for veterinarians</li> </ul>	<p><a href="#">In all EU languages</a></p>	<p>General</p>	<p>FVE in collaboration with other organisations</p>
<p><b>Finland</b></p> 	<p><b>Recommendations for the use of antimicrobial agents in major animal infectious and infectious diseases</b> (Mikrobilääkkeidenkäyttösuositukset eläinten tärkeimpiin tulehdus- ja tartuntatauteihin)</p>	<p><a href="#">Finish</a></p>	<p>General</p>	<p>Finnish Food Authority</p>
<p><b>France</b></p> 	<p><b>Good Practices Recommendations for The Use of Antibiotics in The Avian Sector - 2017</b> (Recommandations de Bonnes Pratiques D'utilisation des Antibiotiques en Filiere Aviaire –2017)</p>	<p><a href="#">French</a></p>	<p>Avian</p>	<p>National Society of Veterinary Technical Groups (SNGTV)</p>


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


	<b>The Vaccination- Health Investment for Your Animals</b> (Nourri Loge Vaccine - La Vaccination, L'investissement Santé de Vos Animaux)	<a href="#">French</a>	General	
<b>Germany</b> 	<b>Guidelines for careful handling of antibacterial veterinary drugs</b> (Bundestierärztekammer (BTK) Leitlinien für den sorgfältigen Umgang mit antibakteriell wirksamen Tierarzneimitteln)	<a href="#">German</a>	General	Federal Veterinary Office (BTK)
<b>Japan</b> 	<b>National Action Plan on Antimicrobial Resistance (AMR) 2016-2020</b>	<a href="#">English</a>	General	Government of Japan
	<b>Guidebook for Cattle Respiratory Disease (BRDC) Treatment in Japan</b> (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)	<a href="#">Japanese</a>	Bovine	Ministry of Agriculture, Forestry and Fisheries of Japan
	<b>Guidebook for Swine Respiratory Disease (PRDC) Treatment in Japan</b> (豚呼吸器病における抗菌剤治療 ガイドブック)	<a href="#">Japanese</a>	Swine	Ministry of Agriculture, Forestry and Fisheries of Japan
<b>Kenya</b> 	<b>National Policy for the Prevention and Containment of Antimicrobial Resistance June 2017</b>	<a href="#">English</a>	General	Ministry of Health of Kenya
<b>Korea</b> 	<b>National Action Plan on Antimicrobial Resistance 2016 – 2020</b>	<a href="#">Korean</a>	General	Ministry of health and welfare


<b>Luxembourg</b> 	<b>National Antibiotic Plan 2018-2022</b> (Plan National Antibiotiques 2018-2022)	<a href="#">French</a>	General	Ministry of Health and the Ministry Agriculture, of Viticulture and Consumer protection of Luxembourg
<b>Norway</b> 	<b>Useful Antibiotics in Animal Medicine</b> (Forsvarlig Bruk Av Antibiotika Hos Dyr)	<a href="#">Norwegian</a>	General	The Norwegian Medicines Agency
	<b>National Strategy against Antibiotic Resistance 2015 –2020</b>	<a href="#">English</a>	General	Norwegian Ministry of Health and Care Services
<b>Peru</b> 	<b>National Plan to Face the Resistance to Antimicrobials 2017 – 2021</b> (Plan Nacional Para Enfrentar La Resistencia A Los Antimicrobianos 2017-2021)	<a href="#">Spanish</a>	General	Ministry of Health of Peru
<b>Philippines</b> 	<b>The Philippine Action Plan to Combat Antimicrobial Resistance: One Health Approach</b>	<a href="#">English</a>	General	Department of Health, the Inter-agency Committee on Antimicrobial Resistance (ICAMR) and the Department of Agriculture of the Philippines
<b>South Africa</b> 	<b>Technical Guidelines for Responsible and Prudent Use of Antimicrobials in Veterinary Medicine in South Africa</b>	<a href="#">English</a>	General	The Medicine Committee of the South African Veterinary Association
	<b>Guidelines for The Use of Antimicrobials in The South African Pig Industry</b>	<a href="#">English</a>	Pigs	Pig Veterinary society of the South African Veterinary Association
	<b>Guidelines for The Use of Antimicrobials in Poultry in South Africa</b>	<a href="#">English</a>	Poultry	South African Veterinary Association




	<b>SAAHA Proposal – Managing Antibiotic Resistance</b>	<a href="#">English</a>	General	South African Animal Health Association (SAAHA)
	<b>Rules Relating to Good Pharmacy Practice</b>	<a href="#">English</a>	General	The South African Pharmacy Council
	<b>Guidelines on Implementation of The Antimicrobial Strategy in South Africa: One Health Approach and Governance, June 2017</b>	<a href="#">English</a>	General	Ministerial advisory committee on Antimicrobial Resistance – National department of Health affordable medicines directorate
	<b>The One Health Stewardship of Colistin As an Antibiotic of Last Resort for Human Health in South Africa</b>	<a href="#">English</a>	General	Division of Infectious Diseases and HIV Medicine, Department of Medicine, Groote Schuur Hospital, University of Cape Town
<b>Spain</b> 	<b>Strategic Plan and Action to Reduce the Risk of Selection and Dissemination of The Resistance to Antibiotics</b> (Plan Estratégico Y De Acción Para Reducir El Riesgo De Selección Y Diseminación De La Resistencia A Los Antibióticos)	<a href="#">Spanish</a>	General	Strategic Plan by the Spanish Agency of Medicines and Sanitary Products
	<b>National Plan against Antibiotic Resistance 2019 - 2021</b> (Plan Nacional frente a la Resistencia a los Antibióticos (2019-2021))	<a href="#">Spanish</a>	General	Ministry of Health and Social Welfare
	<b>Vetresponsable – Spanish initiative for promoting the responsible use of veterinary medicines, including antibiotics</b> (uso responsable de los medicamentos veterinarios)	<a href="#">Spanish</a>	General	Ministry of Science and Innovation and Vet+i

<p><b>Sweden</b></p> 	<p><b>Regulations of The National Agricultural Agency on Medicinal Products and Drug Use</b> (Föreskrifter Om Ändring I Statens Jordbruksverks Föreskrifter (SJVFS 2013:42) Om Läkemedel Och Läkemedelsanvändning )</p>	<p><a href="#">Swedish</a></p>	<p>General</p>	<p>The National agriculture agency</p>
	<p><b>Dosage of Antibiotics for Dogs - Treatment Recommendation</b> (Dosering Av Antibiotika Till Hund – Behandlingsrekommendation)</p>	<p><a href="#">Swedish</a></p>	<p>Dogs</p>	<p>The Medical Product Agency</p>
	<p><b>Dosage of Antibiotics for Cattle and Sheep - New Recommendation</b> (Dosering Av Antibiotika Till Nötkreatur Och Får – Ny Rekommendation)</p>	<p><a href="#">Swedish</a></p>	<p>Cattle and sheeps</p>	<p>The Medical Product Agency</p>
	<p><b>Drug Treatment For Infections In Poultry</b> (Läkemedelsbehandling Av Infektioner Hos Fjäderfä)</p>	<p><a href="#">Swedish</a></p>	<p>Poultry</p>	<p>The Medical Product Agency</p>
	<p><b>Dosage of Antibiotics for Horses - Treatment Recommendation</b> (Dosering Av Antibiotika Till Häst – Behandlingsrekommendation)</p>	<p><a href="#">Swedish</a></p>	<p>Horses</p>	<p>The Medical product Agency</p>
	<p><b>The Swedish Veterinary Association's Antibiotic Policy</b> (Sveriges Veterinärförbunds Antibiotikapolicy)</p>	<p><a href="#">Swedish</a></p>	<p>General</p>	<p>The Swedish Veterinary Association</p>
	<p><b>Guidelines for The Clinical Use of Antibiotics in The Treatment of Dogs and Cats</b> (Antibiotikapolicy För Hund Och Kattsjukvård)</p>	<p><a href="#">English</a> <a href="#">Swedish</a></p>	<p>Dogs and Cats</p>	<p>The Swedish Veterinary Association</p>

	<b>Guideline for use of Antibiotics in Livestock</b> (Riktlinjer För Antibiotikaanvändning Till Nötkreatur Och Gris)	<a href="#">Swedish</a>	Livestock	The Swedish Veterinary Medical Association
	<b>Guidelines for Use of Antibiotics in Horse Care</b> (Riktlinjer för användning av antibiotika inom hästsjukvård)	<a href="#">Swedish</a>	Horses	The Swedish Veterinary Medical Association
	<b>Swedish Strategy to Combat Antibiotic Resistance</b>	<a href="#">English</a>	General	Strategy Plan by the Ministry of Health and Social Affairs - Government Offices of Sweden
<b>Switzerland</b> 	<b>Appropriate Use of Antibiotics</b> (Sachgemässer Antibiotikaeinsatz)	<a href="#">German</a> <a href="#">French</a> <a href="#">Italian</a>	General	Government of Switzerland
	<b>Prudent Use of Antimicrobials in Dogs and Cats</b>	<a href="#">French</a> <a href="#">German</a>	Dogs and Cats	Swiss Veterinary Association in collaboration with Bern and Zurich Universities
	<b>Prudent Use of Antimicrobials in Bovine and Swine</b>	<a href="#">French</a> <a href="#">German</a>	Bovine and Swine	
	<b>Starting Shot AntibioticScout: Online Decision Support for Prudent Use of Antimicrobial Agents</b> (Startschuss AntibioticScout : Online-Entscheidungshilfe Für Den Umsichtigen Einsatz Von Antimikrobiellen Wirkstoffen)	<a href="#">German</a>	General	Institute of Veterinary Pharmacology and Toxicology - University of Zurich
	<b>Flyer Antibiotic Scout in German</b> <b>Flyer Antibiotic Scout in French</b> <b>Flyer Antibiotic Scout in Italian</b>	<a href="#">German</a> <a href="#">French</a> <a href="#">Italian</a>		

	<b>Guidelines for Prudent Antimicrobial use of veterinary medical Products</b> (Richtlijnen zum sorgfältigen Umgang mit Tierarzneimitteln)	<a href="#">German</a>	General	The Suisse Veterinary association
	<b>StAR: Strategy on Antibiotic Resistance Switzerland</b> Strategie Antibiotikaresistenzen Schweiz	<a href="#">English</a> <a href="#">German</a> <a href="#">French</a>	General	The Suisse confederation
<b>The Netherlands</b> 	<b>Application of Antimicrobial Agents Guideline (2018)</b> (Richtlijn Toepassen van antimicrobiële middelen)	<a href="#">Dutch</a>	General	The Royal Dutch Veterinary Association (KNMVD)
	<b>Guideline for Bacterial Urinary Tract Infections in Dogs and Cats (2018)</b> (Richtlijn Bacteriële Urineweg-Infecties Bij Hond en Kat)	<a href="#">Dutch</a>	Dogs and Cats	
	<b>Antimicrobial Directive for Dry Cows (2018)</b> (Richtlijn Antimicrobiële Middelen Bij Het Droogzetten van Koeien)	<a href="#">Dutch</a>	Cows	
	<b>Guidelines for Broiler Chickens (2017)</b> (Richtlijn Vleeskuikens Vastgesteld Door Knmvd)	<a href="#">Dutch</a>	Chickens	
	<b>Guidelines for External Otitis in Dogs and Cats (2017)</b> (Richtlijn Otitis Externa Bij Hond En Kat)	<a href="#">Dutch</a>	Dogs and Cats	
	<b>Guidelines for Streptococcus in Weaned Piglets (2017)</b> (Richtlijn Streptococcus Suis Bij Gespeende Biggen)	<a href="#">Dutch</a>	Piglets	

<p><b>The Veterinary Antibiotic Policy Working Group (WVAB) Guidelines</b> (werkgroep Veterinair Antibioticum Beleid -Formularia)</p>	<p><a href="#">Dutch</a></p>	<p>General</p>	<p>The Veterinary Antibiotic Policy Working Group (WVAB) of the Royal Dutch Veterinary Association</p>
<p><b>Antibiotic Policy Guideline for Poultry (July 2012)</b> (Formularium Pluimvee 2012 )</p>	<p><a href="#">Dutch</a></p>	<p>Poultry</p>	
<p><b>Antibiotic Policy Guideline for Pigs (2012)</b> (Formularium Varken 2012)</p>	<p><a href="#">Dutch</a></p>	<p>Pigs</p>	
<p><b>Antibiotic Policy Guideline for Calves and Cattle for Meat (2017)</b> (Formularium Vleeskalveren En Vleesvee (2017)</p>	<p><a href="#">Dutch</a></p>	<p>Calves and Cattle for Meat</p>	
<p><b>Antibiotic Policy Guideline for Dairy Cattle (2016)</b> (Formularium Melkvee 2016)</p>	<p><a href="#">Dutch</a></p>	<p>Dairy Cattle</p>	
<p><b>Antibiotic Policy Guideline for Goats (2012)</b> (Formularium Geiten 2012)</p>	<p><a href="#">Dutch</a></p>	<p>Goats</p>	
<p><b>Antibiotic Policy Guideline for Sheep (2012)</b> (Formularium Schapen 2012)</p>	<p><a href="#">Dutch</a></p>	<p>Sheep</p>	
<p><b>Antibiotic Policy Guideline for Rabbits (Food Production and Exhibitions) (2017)</b> (Formularium Konijnen - Voedselproductie En Tentoonstellingen 2017)</p>	<p><a href="#">Dutch</a></p>	<p>Rabbits</p>	

	<b>Antibiotic Policy Guideline for Fish (2015)</b> (Formularium Consumptievis 2015)	<a href="#">Dutch</a>	Fish	
	<b>Antibiotic Policy Guideline for Horses June (2016)</b> (Formularium Paard 2016)	<a href="#">Dutch</a>	Horses	
	<b>Antibiotic Policy Guideline for Companion Animals Dog, Cat and Rabbit (2017)</b> (Formularium Gezelschapsdieren Hond, Kat En Konijn 2017)	<a href="#">Dutch</a>	Companion Animals Dog, Cat and Rabbit	
<b>United States of America</b> 	<b>Guidelines for Veterinary Prescription Drugs</b>	<a href="#">English</a>	General	American Veterinary Medical Association
	<b>Judicious Therapeutic Use of Antimicrobials</b>	<a href="#">English</a>	General	American Veterinary Medical Association
	<b>Antimicrobial Use and Antimicrobial Resistance</b>	<a href="#">English</a>	General	American Veterinary Medical Association
	<b>Antimicrobial Stewardship Definition and Core Principles</b>	<a href="#">English</a>	General	American Veterinary Medical Association
	<b>The Role of the Veterinarian in Animal Antimicrobial Use</b>	<a href="#">English</a>	General	American Veterinary Medical Association
	<b>Disposal of Unwanted Medications</b>	<a href="#">English</a>	General	American Veterinary Medical Association
	<b>Key Elements for Implementing Antimicrobial Stewardship Plans in Bovine Veterinary Practices Working with Beef and Dairy Operations</b>	<a href="#">English</a>	Bovine	American Association of Bovine Practitioners (AABP)
<b>Prudent Antimicrobial Use Guidelines for Cattle</b>	<a href="#">English</a>	Cattle	American Association of Bovine Practitioners (AABP)	

	<b>Basic Guidelines of Judicious Therapeutic Use of Antimicrobials in Pork Production</b>	<a href="#">English</a>	Swine	AASV Pharmaceutical Issues Committee - American Association of Swine Veterinarians (AASV)
	<b>Basic Guidelines for Judicious Therapeutic Use of Antimicrobials Revised 2014</b>	<a href="#">English</a>	Cats and Dogs	American Association of Feline Practitioners and American Animal Hospital Association
	<b>American Association of Small Ruminant Practitioners Policy Manual</b>	<a href="#">English</a>	Small Ruminant	American Association of Small Ruminant Practitioners
	<b>McDonald's Global Vision for Antibiotic Stewardship in Food Animals</b>	<a href="#">English</a>	Livestock	McDonald's Corporation
	<b>Tyson: Antibiotics, Hormones &amp; Steroids</b>	<a href="#">English</a>	Poultry	Tyson - food company
	<b>Cargill: Antibiotics</b>	<a href="#">English</a>	Livestock	Cargill Company
<b>Zimbabwe</b> 	<b>Zimbabwe One Health Antimicrobial Resistance National Action Plan 2017-2021 - Strategic Framework, Operational Plan, and Monitoring and Evaluation Plan</b>	<a href="#">English</a>	General	Government of Zimbabwe



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