

Antimicrobial Usage in Animal Production: A Review of and Middle-Income Countries

Antibiotics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Colistin(Coly-Mycin) in Resistant Bacterial Infections. Archives of Internal Medicine, 1961, 108, 664.	3.8	46
2	Adverse Effects of Sodium Colistimethate. Annals of Internal Medicine, 1970, 72, 857.	3.9	393
3	Labelling and quality of antimicrobial products used in chicken flocks in the Mekong Delta of Vietnam. Veterinary Medicine and Science, 2019, 5, 512-516.	1.6	10
4	Assessment of Drivers of Antimicrobial Usage in Poultry Farms in the Mekong Delta of Vietnam: A Combined Participatory Epidemiology and Q-Sorting Approach. Frontiers in Veterinary Science, 2019, 6, 84.	2.2	22
5	High Genetic Diversity of Enterobacteriaceae Clones and Plasmids Disseminating Resistance to Extended-Spectrum Cephalosporins and Colistin in Healthy Chicken in Tunisia. Microbial Drug Resistance, 2019, 25, 1507-1513.	2.0	26
6	High-Resolution Monitoring of Antimicrobial Consumption in Vietnamese Small-Scale Chicken Farms Highlights Discrepancies Between Study Metrics. Frontiers in Veterinary Science, 2019, 6, 174.	2.2	52
7	Veterinary Drug Shops as Main Sources of Supply and Advice on Antimicrobials for Animal Use in the Mekong Delta of Vietnam. Antibiotics, 2019, 8, 195.	3.7	8
8	Antimicrobial Use and Antimicrobial Resistance Indicatorsâ€™Integration of Farm-Level Surveillance Data From Broiler Chickens and Turkeys in British Columbia, Canada. Frontiers in Veterinary Science, 2019, 6, 131.	2.2	42
9	Changes in antibiotic resistance in animals. Science, 2019, 365, 1251-1252.	12.6	38
10	Patterns of antibiotic use in global pig production: A systematic review. Veterinary and Animal Science, 2019, 7, 100058.	1.5	204
11	Impacts of small-scale chicken farming activity on antimicrobial-resistant Escherichia coli carriage in backyard chickens and children in rural Ecuador. One Health, 2019, 8, 100112.	3.4	17
12	Knowledge of Antimicrobial Resistance among Veterinary Students and Their Personal Antibiotic Use Practices: A National Cross-Sectional Survey. Antibiotics, 2019, 8, 243.	3.7	42
13	Assessment of Three Antimicrobial Residue Concentrations in Broiler Chicken Droppings as a Potential Risk Factor for Public Health and Environment. International Journal of Environmental Research and Public Health, 2019, 16, 24.	2.6	15
14	External Societal Costs of Antimicrobial Resistance in Humans Attributable to Antimicrobial Use in Livestock. Annual Review of Public Health, 2020, 41, 141-157.	17.4	35
15	Antimicrobial Resistance in Agri-Food Chain and Companion Animals as a Re-emerging Menace in Post-COVID Epoch: Low-and Middle-Income Countries Perspective and Mitigation Strategies. Frontiers in Veterinary Science, 2020, 7, 620.	2.2	25
16	A Novel Method for Antibiotic Detection in Milk Based on Competitive Magnetic Immunodetection. Foods, 2020, 9, 1773.	4.3	23
17	Use of antibiotics to treat humans and animals in Uganda: a cross-sectional survey of households and farmers in rural, urban and peri-urban settings. JAC-Antimicrobial Resistance, 2020, 2, dlaa082.	2.1	23
18	Prudent and effective antimicrobial use in a diverse livestock and consumerâ€™s world. Journal of Animal Science, 2020, 98, S4-S8.	0.5	13

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19	A Review of Antimicrobial Resistance in Poultry Farming within Low-Resource Settings. <i>Animals</i> , 2020, 10, 1264.	2.3	103
20	Local Bacteriophage Delivery for Treatment and Prevention of Bacterial Infections. <i>Frontiers in Microbiology</i> , 2020, 11, 538060.	3.5	36
21	Global Trends in Antimicrobial Use in Food Animals from 2017 to 2030. <i>Antibiotics</i> , 2020, 9, 918.	3.7	282
22	Antimicrobial use in organic and conventional dairy herds. <i>Animal</i> , 2020, 14, 2187-2193.	3.3	15
23	Use of antimicrobials in beef cattle: an observational study in the north of Italy. <i>Preventive Veterinary Medicine</i> , 2020, 181, 105032.	1.9	16
24	Antimicrobial Resistance, Genetic Diversity and Multilocus Sequence Typing of <i>Escherichia coli</i> from Humans, Retail Chicken and Ground Beef in Egypt. <i>Pathogens</i> , 2020, 9, 357.	2.8	35
25	Assignment of Canadian Defined Daily Doses and Canadian Defined Course Doses for Quantification of Antimicrobial Usage in Cattle. <i>Frontiers in Veterinary Science</i> , 2020, 7, 10.	2.2	22
26	Antibiotic resistome in the livestock and aquaculture industries: Status and solutions. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2159-2196.	12.8	109
27	Spectroscopic Analysis of Chicken Meat Contaminated with <i>E. coli</i> , <i>Salmonella</i> , and <i>Campylobacter</i> . <i>Food Analytical Methods</i> , 2021, 14, 512-524.	2.6	1
28	Assessing antibiotic residues in piglet liver and kidney samples: How to manage the results obtained. <i>Food Control</i> , 2021, 122, 107819.	5.5	7
29	Antimicrobial Usage Factors and Resistance Profiles of Shiga Toxin-Producing <i>Escherichia coli</i> in Backyard Production Systems From Central Chile. <i>Frontiers in Veterinary Science</i> , 2020, 7, 595149.	2.2	6
30	Review: Mitigating the risks posed by intensification in livestock production: the examples of antimicrobial resistance and zoonoses. <i>Animal</i> , 2021, 15, 100123.	3.3	44
31	Method for Measuring Phenotypic Colistin Resistance in <i>Escherichia coli</i> Populations from Chicken Flocks. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	4
32	Antibiotic practices among household members and their domestic animals within rural communities in Cumilla district, Bangladesh: a cross-sectional survey. <i>BMC Public Health</i> , 2021, 21, 406.	2.9	5
33	Probiotics mediated gut microbiota diversity shifts are associated with reduction in histopathology and shedding of <i>Lawsonia intracellularis</i> . <i>Animal Microbiome</i> , 2021, 3, 22.	3.8	7
34	Antimicrobial use through consumption of medicated feeds in chicken flocks in the Mekong Delta of Vietnam: A three-year study before a ban on antimicrobial growth promoters. <i>PLoS ONE</i> , 2021, 16, e0250082.	2.5	10
35	The Bacterial Genomic Context of Highly Trimethoprim-Resistant DfrB Dihydrofolate Reductases Highlights an Emerging Threat to Public Health. <i>Antibiotics</i> , 2021, 10, 433.	3.7	12
36	Knowledge and use of antibiotics among low-income small-scale farmers of Peru. <i>Preventive Veterinary Medicine</i> , 2021, 189, 105287.	1.9	18

#	ARTICLE	IF	CITATIONS
37	Phage Therapy in Livestock and Companion Animals. <i>Antibiotics</i> , 2021, 10, 559.	3.7	22
38	The rumen microbiome: balancing food security and environmental impacts. <i>Nature Reviews Microbiology</i> , 2021, 19, 553-566.	28.6	143
39	Testudines as Sentinels for Monitoring the Dissemination of Antibiotic Resistance in Marine Environments: An Integrative Review. <i>Antibiotics</i> , 2021, 10, 775.	3.7	6
40	Measuring Antimicrobial Use Needs Global Harmonization. <i>Global Challenges</i> , 2021, 5, 2100017.	3.6	4
41	Update on the Mechanisms of Antibiotic Resistance and the Mobile Resistome in the Emerging Zoonotic Pathogen <i>Streptococcus suis</i> . <i>Microorganisms</i> , 2021, 9, 1765.	3.6	23
42	Understanding Antibiotic Usage on Small-Scale Dairy Farms in the Indian States of Assam and Haryana Using a Mixed-Methods Approach—Outcomes and Challenges. <i>Antibiotics</i> , 2021, 10, 1124.	3.7	14
43	Minimum inhibitory concentrations of commercial essential oils against common chicken pathogenic bacteria and their relationship with antibiotic resistance. <i>Journal of Applied Microbiology</i> , 2022, 132, 1025-1035.	3.1	7
44	Combination of oxytetracycline and quinocetone synergistically induces hepatotoxicity via generation of reactive oxygen species and activation of mitochondrial pathway. <i>Toxicology Mechanisms and Methods</i> , 2022, 32, 49-57.	2.7	5
45	Natural collagen peptides-encapsulated gold nanoclusters for the simultaneous detection of multiple antibiotics in milk and molecular logic operations. <i>LWT - Food Science and Technology</i> , 2022, 153, 112416.	5.2	6
46	Understanding Antimicrobial Use Contexts in the Poultry Sector: Challenges for Small-Scale Layer Farms in Kenya. <i>Antibiotics</i> , 2021, 10, 106.	3.7	24
47	Reducing Antimicrobial Usage in Small-Scale Chicken Farms in Vietnam: A 3-Year Intervention Study. <i>Frontiers in Veterinary Science</i> , 2020, 7, 612993.	2.2	10
48	White Paper: Bridging the gap between surveillance data and antimicrobial stewardship in the animal sector—practical guidance from the JPIAMR ARCH and COMBACTE-MAGNET EPI-Net networks. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, ii52-ii66.	3.0	7
49	A survey of retail prices of antimicrobial products used in small-scale chicken farms in the Mekong Delta of Vietnam. <i>Globalization and Health</i> , 2020, 16, 8.	4.9	9
50	Antibiotic Use in Organic and Non-organic Swedish Dairy Farms: A Comparison of Three Recording Methods. <i>Frontiers in Veterinary Science</i> , 2020, 7, 568881.	2.2	11
51	Farmers'™ Perceptions and Drivers of Antimicrobial Use and Abuse in Commercial Pig Production, Ogun State, Nigeria. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3579.	2.6	25
52	Key factors in antibiotic resistance. <i>Journal of Global Infectious Diseases</i> , 2019, 11, 163.	0.5	1
53	Spatial Exposure of Agricultural Antimicrobial Resistance in Relation to Free-Ranging Domestic Chicken Movement Patterns among Agricultural Communities in Ecuador. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 1803-1809.	1.4	7
54	Knowledge and practice of cattle handlers on antibiotic residues in meat and milk in Kwara State, Northcentral Nigeria. <i>PLoS ONE</i> , 2021, 16, e0257249.	2.5	6

#	ARTICLE	IF	CITATIONS
57	Biological Effects of Quinolones: A Family of Broad-Spectrum Antimicrobial Agents. <i>Molecules</i> , 2021, 26, 7153.	3.8	53
58	A review of the resistome within the digestive tract of livestock. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 121.	5.3	17
59	In Silico Detection of Antimicrobial Resistance Integrons in <i>Salmonella enterica</i> Isolates from Countries of the Andean Community. <i>Antibiotics</i> , 2021, 10, 1388.	3.7	6
60	Long-term maintenance of multidrug-resistant <i>Escherichia coli</i> carried by vampire bats and shared with livestock in Peru. <i>Science of the Total Environment</i> , 2022, 810, 152045.	8.0	22
61	Knowledge and Practices on Antibiotic Use and Antibiotic Resistance Among Smallholder Pig Farmers in Timor-Leste. <i>Frontiers in Veterinary Science</i> , 2021, 8, 819643.	2.2	7
62	Linking Animal Welfare and Antibiotic Use in Pig Farming—A Review. <i>Animals</i> , 2022, 12, 216.	2.3	24
63	Applied Animal Ethics in Industrial Food Animal Production: Exploring the Role of the Veterinarian. <i>Animals</i> , 2022, 12, 678.	2.3	10
64	Increase in antimicrobial resistance in <i>Escherichia coli</i> in food animals between 1980 and 2018 assessed using genomes from public databases. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, 77, 646-655.	3.0	10
82	Antimicrobial resistance in commensal <i>Escherichia coli</i> from humans and chickens in the Mekong Delta of Vietnam is driven by antimicrobial usage and potential cross-species transmission. <i>JAC-Antimicrobial Resistance</i> , 2022, 4, .	2.1	7
83	Efficacy of inactivated paraimmune activator as a prophylaxis against mastitis and therapy for subclinical mastitis in dairy cattle.. <i>Veterinary Research Forum</i> , 2021, 12, 421-427.	0.3	0
84	Antimicrobial usage and associated residues and resistance emergence in smallholder beef cattle production systems in Nigeria: A One Health challenge. <i>Veterinary Research Communications</i> , 0, , .	1.6	0
85	Knowledge, Attitudes, and Practices of Antimicrobial Use and Resistance among Livestock Producers in Cambodia. <i>Open Journal of Animal Sciences</i> , 2022, 12, 454-466.	0.6	3
86	Method to Assess Farm-Level Vaccine and Antibiotic Usage Utilizing Financial Documentation: A Pilot Study in a Commercial Pig Farm in South Africa From 2016 to 2018. <i>Frontiers in Veterinary Science</i> , 0, 9, .	2.2	1
87	A scoping review of antibiotic use practices and drivers of inappropriate antibiotic use in animal farms in WHO Southeast Asia region. <i>One Health</i> , 2022, 15, 100412.	3.4	9
88	Assessing farm biosecurity and farmers' knowledge and practices concerning antibiotics and antibiotic resistance in poultry and pig farms in Southern Togo. <i>Veterinary World</i> , 0, , 1727-1737.	1.7	3
89	Depletion of Amoxicillin Residue in Edible Tissue of Broiler Chicken by Different Cooking Methods. <i>International Journal of Analytical Chemistry</i> , 2022, 2022, 1-10.	1.0	1
90	Antibiotic Free Poultry Production-Focus on Antimicrobial Resistance, Challenges, and Alternatives. , 0, , .		0
91	Veterinary consumption of highest priority critically important antimicrobials and various growth promoters based on import data in Pakistan. <i>PLoS ONE</i> , 2022, 17, e0273821.	2.5	7

#	ARTICLE	IF	CITATIONS
92	Antibiotic usage practices and its drivers in commercial chicken production in Bangladesh. PLoS ONE, 2022, 17, e0276158.	2.5	9
94	Actinomycetes as a promising candidate bacterial group for the health management of aquaculture systems: A review. Reviews in Aquaculture, 2023, 15, 1198-1226.	9.0	3
95	Development of an electronic interface for transfer of antimicrobial administration data in dairy farms. PLoS ONE, 2022, 17, e0278267.	2.5	0
96	Occurrence and Fate of Antibiotics in Manure. , 2023, , 197-210.		0
97	A conserved SH3-like fold in diverse putative proteins tetramerizes into an oxidoreductase providing an antimicrobial resistance phenotype. Philosophical Transactions of the Royal Society B: Biological Sciences, 2023, 378, .	4.0	3
98	Antimicrobial Usage in Animal Production Systems. , 2023, , 1-25.		0
99	Drivers of Antibiotic Use in Semi-Intensive Poultry Farms: Evidence from a Survey in Senegal. Antibiotics, 2023, 12, 460.	3.7	2
100	Multidrug Resistance in Salmonella Serotypes Across the Globe: Alarming Rate of Spread. , 2023, , 1-17.		0
101	Monitoring of antimicrobial usage among adult bovines in dairy herds of Punjab, India: A quantitative analysis of pattern and frequency. Frontiers in Veterinary Science, 0, 10, .	2.2	1
102	Prebiotic and Probiotic-Based Strategies for the Control of Antimicrobial Resistance. , 2023, , 1-46.		1
103	â€I Believe What Iâ€™m Saying More Than the Testâ€™: The Complicated Place of Rapid, Point-of-Care Tests in Veterinary Diagnostic Practice. Antibiotics, 2023, 12, 804.	3.7	0
104	Antimicrobial Residues in Foods. , 2024, , 603-620.		0
105	Highly drug resistant clone of Salmonella Kentucky ST198 in clinical infections and poultry in Zimbabwe. , 2023, 1, .		0
106	Alternatives to antibiotics in veterinary medicine: Considerations for the management of Johne's disease. Animal Health Research Reviews, 0, , 1-43.	3.1	1
107	Antimicrobial Resistance and Clonal Lineages of Escherichia coli from Food-Producing Animals. Antibiotics, 2023, 12, 1061.	3.7	5
108	Mobile Colistin Resistance (mcr) Gene-Containing Organisms in Poultry Sector in Low- and Middle-Income Countries: Epidemiology, Characteristics, and One Health Control Strategies. Antibiotics, 2023, 12, 1117.	3.7	4
110	Prebiotic- and Probiotic-Based Strategies for the Control of Antimicrobial Resistance. , 2023, , 827-872.		0
112	Antimicrobial Usage in Animal Production Systems. , 2023, , 237-261.		0

#	ARTICLE	IF	CITATIONS
113	Multidrug Resistance in Salmonella Serotypes Across the Globe: Alarming Rate of Spread. , 2023, , 431-447.		0
114	From a binding module to essential catalytic activity: how nature stumbled on a good thing. Chemical Communications, 2023, 59, 12560-12572.	4.1	1
115	Emerging microbial contaminants in the ocean. , 2023, , 315-350.		0
116	Antibiotic residues in food. , 2023, , 645-675.		0
117	Risk assessment and dissemination mechanism of antibiotic resistance genes in compost. Environment International, 2023, 178, 108126.	10.0	1
118	How farm practices and antibiotic use drive disease incidence in smallholder livestock farms: Evidence from a survey in Uganda. One Health, 2023, 17, 100627.	3.4	3
119	Exploring the effects of lysozyme dietary supplementation on laying hens: performance, egg quality, and immune response. Frontiers in Veterinary Science, 0, 10, .	2.2	0
120	Antimicrobial resistance in <i>Escherichia coli</i> isolated from pigs and associations with aggregated antimicrobial usage in Ireland: A herd-level exploration. Zoonoses and Public Health, 2024, 71, 71-83.	2.2	0
121	Managing Risk for Sustainability and Resilience. , 2023, , 235-277.		0
122	Genomic Profiling of Multidrug-Resistant Swine <i>Escherichia coli</i> and Clonal Relationship to Human Isolates in Peru. Antibiotics, 2023, 12, 1748.	3.7	0
123	Microflora structure and functional capacity in Tibetan kefir grains and selenium-enriched Tibetan kefir grains: A metagenomic analysis. Food Microbiology, 2023, , 104454.	4.2	0
124	Alternatives to antibiotics in pig production: looking through the lens of immunophysiology. Stress Biology, 2024, 4, .	3.1	0
125	Associations of Swiss national reporting system's antimicrobial use data and management practices in dairy cows on tie stall farms. Journal of Dairy Science, 2024, , .	3.4	0
126	Economic assessment of an intervention strategy to reduce antimicrobial usage in small-scale chicken farms in Vietnam. One Health, 2024, 18, 100699.	3.4	0
127	Multidrug-Resistant Extended-Spectrum Beta-Lactamase (ESBL)-Producing <i>Escherichia coli</i> in a Dairy Herd: Distribution and Antimicrobial Resistance Profiles. Antibiotics, 2024, 13, 241.	3.7	0
128	Determinants of animal disease and nontherapeutic antibiotic use on smallholder livestock farms. Frontiers in Veterinary Science, 0, 10, .	2.2	0
129	Unveiling the landscape of resistance against high priority critically important antimicrobials in food-producing animals across Africa: A scoping review. Preventive Veterinary Medicine, 2024, 226, 106173.	1.9	0