

DAFTAR PUSTAKA

- Aboubakar, M., Eldbadawy, M. 2017. Pharmacokinetics, tissue residues and efficacy of D-Tylo50/25® (Tylosin- Doxycycline Combination) in Broiler Chickens. *International Journal of Basic and Clinical Pharmacology*. 6 (2), 383-388.
- Abu-Basha, E. A., Bani Ismail, Z., Idkaidek, N. M., Hamzeh, E. 2023. Comparison of pharmacokinetics of two tylvalosin oral formulations in broiler chickens. *Journal of Veterinary Pharmacology and Therapeutics*. 46(3), 165–169.
- Ahmad, M., Murtaza, G., Khiljee, S., Madni, M. A. 2010. Validation and Application of a New Optimized RP-HPLC-Fluorescent Detection Method for Norfloxacin. *International Journal of Pharmacological and Pharmaceutical Sciences*. 4(5).
- Al-jumaili, M. A. J., Alabbas, N. N. A., Ibrahim, O. M. S. 2023. Pharmacokinetic Profile of Norfloxacin in Pigeons. *Revista de Ciências Agroveterinárias*. 22(3), Article 3.
- Anadón, A., Martínez-Larrañaga, M. R., Vélez, C., Díaz, M. J., Bringas, P. 1992. Pharmacokinetics of norfloxacin and its N-desethyl- and oxo-metabolites in broiler chickens. *American Journal of Veterinary Research*. 53(11), 2084–2089.
- Andes, D., Anon, J., Jacobs, M.R., Craig, W.A. 2004. Application of pharmacokinetics and pharmacodynamics to antimicrobial therapy of respiratory tract infections. *Clinics in Laboratory Medicine*. 24, 477-502.
- Anggriawan, R., Lokapirnasari, W. P., Sri H., Muhammad A., A., Diyah A., C. 2024. Residue Detection of Tylosin Antibiotics and Enrofloxacin in Broiler Chickens. *Advanced in Animal and Veterinary Sciences*. 12(11), 2195.
- Basha, E. A. A., Gharaibeh, S. M., Abubados, A. M., Shunnaq A. F., Al-Majali, A. M. 2008. Pharmacokinetics and Bioequivalence of Two Norfloxacin Oral Dosage Forms (Vapcotril-10% and Mycomas 10%) in Healthy Broiler Chickens. *International Journal of Poultry Science*. 7 (3), 289-293.
- Bedor, D. C. G., Gonçalves, T. M., Bastos, L. L., Sousa, C. E. M. de, Abreu, L. R. P. de, Oliveira, E. de J., Santana, D. P. de. 2007. Development and validation of a new method for the quantification of norfloxacin by HPLC-UV and its application to a comparative pharmacokinetic study in human volunteers. *Revista Brasileira de Ciências Farmacêuticas*. 43, 231–238.
- Brennan, J., G. Moore, S. E. Poe, A. Zimmermann, G. Vessie, D. A. Barnum, J. Wilson. 2001. Efficacy of In-Feed Tylosin Phosphate for the Treatment of Necrotic Enteritis in Broiler Chickens. *Poultry Science*. 1451-1453.

- Bonassa, K. P. D., Miragliotta, M. Y., Simas, R. C., Eberlin, M. N., Anadón, A., Moreno, R. A., Reyes, F. G. R. 2021. Pharmacokinetics, Pharmacodynamic Efficacy Prediction Indexes and Monte Carlo Simulations of Enrofloxacin Hydrochloride Against Bacterial Strains That Induce Common Clinical Diseases in Broiler Chickens. *Frontiers in Veterinary Science*. 7.
- Chang, Z.-Q., Oh, B.-C., Kim, J.-C., Jeong, K.-S., Lee, M.-H., Yun, H.-I., Hwang, M.-H., Park, S.-C. 2007. Clinical pharmacokinetics of norfloxacin-glycine acetate after intravenous and oral administration in pigs. *Journal of Veterinary Science*. 8(4), 353.
- Castro-Vargas RE, Herrera-Sánchez MP, Rodríguez-Hernández R, Rondón-Barragán IS. 2020. Antibiotic resistance in Salmonella spp. isolated from poultry: A global overview, *Veterinary World*. 13(10): 2070-2084.
- Cardoso, O., Donato, M. M., Henriques, S. C., Ramos, F. 2025. Fluoroquinolone Residues in Piglet Viscera and Their Impact on Intestinal Microbiota Resistance: A One Health Approach. *Microorganisms*. 13(6), 1389
- Chenel, M., Marchand, S., Dupuis, A., Lamarche, I., Paquereau, J., Pariat, C., Couet, W. 2004. Simultaneous central nervous system distribution and pharmacokinetic–pharmacodynamic modelling of the electroencephalogram effect of norfloxacin administered at a convulsant dose in rats. *British Journal of Pharmacology*. 142(2), 323–330.
- Chierentin, L., Salgado, H. R. N. 2013. Development and validation of a simple, rapid and stability-indicating high performance liquid chromatography method for quantification of norfloxacin in a pharmaceutical product. *J Chromat Separation Techniq*. 4 (2)
- Cunningham, F., Elliot, J., Lees, P. 2010. *Comparative and Veterinary Pharmacology*. Springer Science & Business Media, Hertfordshire. 43-4
- Dimitrova D., Moutafchieva R., Kanelov I., Dinev T., Yanev, S., Pandova B., Lashev, L. 2008. Pharmacokinetics of pefloxacin and its metabolite norfloxacin in male and female ducks. *Journal of Veterinary Pharmacology and Therapeutics*. 167-170.
- Elazab, S. T., Elshater, N. S., Hashem Y. H., Park, S. C., Hsu W. H. 2019. Pharmacokinetics, tissue residues, and ex vivo pharmacodynamics of tylosin against *Mycoplasma anatis* in ducks. *Journal of Veterinary Pharmacology and Therapeutics*. Halaman 1-10.
- El-gendy, H. F., Masoud, . S. R., Elnahriry, . S. S., Attia, . T., Mansour, . A. Elhusseiny, E. 2024. Enhancement of the efficacy of Tylvalosin by administration with Eucalyptus oil or Bromhexine against *Mycoplasma gallisepticum*-infected broiler chickens. *Alexandria Journal of Veterinary Sciences*, 77(3), 119–128.

- El-Sayed, G. A., El-Komy, A. A., Aboubakr, H., Elsaid, M. 2014. Pharmacokinetics and Tissue Residues of Normal and Experimentally E. coli Infected Broiler Chicken. *Benha Medical Veterinary Journal*. 26(1), 10 - 18.
- El-Sheikh, W. M. A., Elkahky, M. A. A. 2010. Comparative Studies Between Residues of Norfloxacin and Ciprofloxacin in Broiler Chickens With Special Reference to Their Withdrawal Time. *Kafrelsheikh Veterinary Medical Journal*, 8(1), 44–62.
- Fei, Z., Song, S., Gao, J., Song, Y., Xiao, X., Yang, X., Jiang, D., Yang, D. 2023. Antibiotic residues in chicken meat in China: Occurrence and cumulative health risk assessment. *Journal of Food Composition and Analysis*, 116, 105082
- Food Agricultural Organization. 2024. Codex Alimentarius: Maximum Residue Limits (MRLs) and Risk Recommendations (RMRs) for Residues of Veterinary Drugs in Foods. Roma: FAO.
- European Medicines Committee, 2020. *Categorisation of antibiotics used in animals promotes responsible use to protect public and animal health*. European Medicines Agency: Amsterdam, The Netherlands.
- Gberindyer, F. A., Wannang, N., Akwuobu, C. A. 2010. Comparative Pharmacokinetics/Pharmacodynamic Modeling on Three Brands of 10% Enrofloxacin Oral Formulations in Broiler Chickens. *International Journal of Poultry Science*, 9(3), 273–277.
- Ghanem, M. M. 2013. Development and Validation of a Stability-Indicating HPLC Method for the Simultaneous Determination of Sulfadiazine Sodium and Trimethoprim in Injectable Solution Formulation. *Scientia Pharmaceutica*, 81(1), 167–182
- Ghimpeteanu, O.M., Pogurschi, E.N., Popa, D.C., Dragomir, N., Draǵotoiu, T., Mihai, O.D., Petcu, C.D. 2022. Antibiotic Use in Livestock and Residues in Food—A Public Health Threat: A Review. *Foods*. 11, 1430
- Gokarn, R.A., Gokarn S., Patgiri B., Prajapati P.K. 2015. Antimicrobial Study of Shadguna Rasa Sindura. *Joinsysmed Vol.3 (3) 136- 140*.
- Gutierrez, L., Y. Alcalá, M. J. Bernad, and H. Sumano. 2018. Increased Bioavailability of Tylosin Phosphate as In-Feed Medication Formulated for Long-Action Pellets in Broiler Chickens. *Journal of Applied Poultry Research* 27(1):16–22. doi: 10.3382/japr/pfx035
- Hakimah, Nisa., Donny, R. Gagak Satria., Pawestri, Wari., Indarjulianto, Soedarmanto. 2019. Validasi Metode Analisis Tetrasiklin pada Ikan Nila (*Oreochromis sp.*) menggunakan Alat Kromatografi Cair Kinerja Tinggi (KCKT). *Jurnal Sains Veteriner*. Halaman 213-218.
- Harmita. 2020. Analisis Fisikokimia Kromatografi Volume 2. Jakarta: Penerbit Buku Kedokteran EGC.

- Haritova, A.M dan Rusenova, N.V. 2010. In Vitro Antibacterial Effect of Enrofloxacin Determined By Time-Killing Curves Analysis. *Bulgarian Journal. of Veterinary Medicine*. 13(4): 218-226.
- Hastawa, M. F. D. 2025. Efektivitas Kombinasi Antibiotik Tilosin-Norfloksasin terhadap Bakteri *Staphylococcus aureus* dan *Escherichia coli*. Skripsi. Universitas Gadjah Mada.
- Holmes, B., Brogden R.N., Richards D.M. 1985. Norfloxacin: A Review its Bacterial Activity, Pharmacokinetics Properties and Therapeutic Use. *Drugs Evaluation* 30: 482-513.
- Lee, J.-H., Kim, G. W., Kwon, M.-G., Seo, J. S. 2021. Pharmacokinetic-Pharmacodynamic Profile, Bioavailability, and Withdrawal Time of Tylosin Tartrate Following a Single Intramuscular Administration in Olive Flounder (*Paralichthys olivaceus*). *Animals*, 11(8), 2468.
- Lee E-B, Abbas MA, Park J, Tassew DD, Park S-C. 2023. Optimizing tylosin dosage for co-infection of *Actinobacillus pleuropneumoniae* and *Pasteurella multocida* in pigs using pharmacokinetic/ pharmacodynamic modeling. *Frontiers in Pharmacology*. 14:1258403
- Iveković, D., Lopotar, N., Brajša, K. dan Mandić, Z. 2003. Electrochemical reduction of desmycosin, structure investigation and antibacterial evaluation of the resulting products. *European Journal of Pharmacology*. Sci. 18: 323-328.
- Jelliffe, R.W., Schumitzky, A., Bayard, D., Fu, X. and Neely, M. 2015 Describing assay precision-reciprocal of variance is correct, not CV percent: Its use should significantly improve laboratory performance. *Theurapeutic Drug Monitoring.*, 37(3): 389–394.
- Ji, L. W., Dong L. L., Ji, H., Feng, X. W., Li, D., Ding, R. L., Jiang S.X. 2013. Comparative Pharmacokinetics and Bioavailability of Tylosin Tartate and Tylosin Phospate After a Single Oral and I.V. Administration in Chickens. *Journal of Veterinary Pharmacology and Therapeutics*. Halaman 312-315.
- Kang, J., Hossain, M.A., Park, H., Kim, Y., Lee, K., dan Park, S. 2019. Pharmacokinetic and pharmacodynamic integration of enrofloxacin against *Salmonella* Enteritidis after administering to broiler chicken by per-oral and intravenous routes. *Journal Veterinary Science*. 20(2).
- Kamal El-Sagheir, A. M., Abdelmesseeh Nekhala, I., Abd El-Gaber, M. K., Aboaraia, A. S., Persson, J., Schäfer, A. B., Wenzel, M., Omar, F. A. 2023. Design, Synthesis, Molecular Modeling, Biological Activity, and Mechanism of Action of Novel Amino Acid Derivatives of Norfloxacin. *ACS Omega*, 8(45), 43271–43284.

- Kamal, M., Deen, R., Ahmed, B., Hashem, M. 2025. Assessment of antibiotic residues in beef cattle slaughtered in Bangladesh: Implications for food safety and public health. *Meat Research*, 5(2).
- Khan, W., F., H., Javed, I. 2006. Bioavailability and Pharmacokinetics Norfloxacin After Intramuscular Administration in Goats. *Pakistan Veterinary Journal*. 26(1), 14-16.
- Kazusaki, M., Ueda, S., Takeuchi, N., Ohgami, Y. 2012. Validation of Analytical Procedures by High-Performance Liquid Chromatography for Pharmaceutical Analysis. *Journal of Chromatography*. 33 (2): 65-73.
- Lashev, Lubomir, Dimitrichka Dimitrova, Aneliya Milanova, I. Kanelov, Romyana Moutafchieva, and Toncho Dinev. 2009. Gender Related Differences in the Pharmacokinetics of Antibacterials in Poultry. *Journal of Veterinary Pharmacology and Therapeutics* 32:148–49.
- Lazuardi, M. 2010. *Biofarmasetik dan Farmakokinetik Klinik Medis Veteriner*. Cetakan I. Ghalia Indonesia. 33-53
- Levison, M.E., dan Levison, J.H. 2009. Pharmacokinetics and Pharmacodynamics of Antibacterial Agents. *Infectious Disease Clinic North America*, 23: 791-815.
- Mallik, S.K., Pathak, R., Kala, K., Shahi, N. 2025. *Advances in Pharmacokinetics, Efficacy, Biosafety, and Withdrawal of Approved Antibiotics in Aquaculture Practices*. In: Mallik, S.K., Shahi, N., Pandey, P.K. (eds) Management of Fish Diseases. Springer, Singapore.
- Mak, P.H.W., Rehman, M.A., Kiarie, E.G., Top, E., Diarra, M., S. 2022. Production systems and important antimicrobial resistant-pathogenic bacteria in poultry: a review. *Journal of Animal Science and Biotechnology*. 13, 148.
- Martinez, M., McDermott, P. dan Walker, R. 2006. Pharmacology of the Fluoroquinolones: A Perspective for the Use in Domestic Animals. *The Veterinary Journal*. 172: 10-28.
- Martínez, M.-A., Ares, I., Rodríguez, J.-L., Martínez, M., Martínez-Larrañaga, M.-R., Isea, G., Anadón, A. 2017. Oral Bioavailability and Plasma Disposition of Pefloxacin in Healthy Broiler Chickens. *Frontiers in Veterinary Science*, 4.
- Meena, N.S., Sahni, Y.P., Shrman, K., Singh, A.K. and Kumar, A. 2020. Detection of Norfloxacin in Muscle, Liver and Kidney of Broiler Chicken. *Indian Journal of Animal Research*. 54(6): 739-743.
- Mendes, C., Buttchevitz, A., Kruger, J. H., Bernardi, L. S., Oliveira, P. R., Silva, M. A. S. 2015. Quantitative Analysis of Norfloxacin in β -Cyclodextrin Inclusion Complexes—Development and Validation of a Stability-indicating HPLC Method. *Analytical Sciences*, 31(10), 1083–1089.

- Mensah, G I., Adjei, VY., Vicar, EK., Atsu, P S., David LB., Johnson, AS., Ama MKK.. 2022. Safety of Retailed Poultry: Analysis of Antibiotic Resistance in *Escherichia coli* From Raw Chicken and Poultry Fecal Matter from Selected Farms and Retail Outlets in Accra, Ghana. *Microbiology Insights*. Volume 15, 1-5.
- Neagu, M. 2010. Analytical method (HPLC), validation used for identification and assay of the pharmaceutical active ingredient, Tylosin tartrate for veterinary use and its finite product Tilodem 50, hydrosoluble powder. *Medicamentul Veterinar*, 4(2), 47–65.
- Onita, T., Ishihara, N., Yano, T. 2025. PK/PD-Guided Strategies for Appropriate Antibiotic Use in the Era of Antimicrobial Resistance. *Antibiotics*. Vol. 14, Issue 1.
- Pant, S., Rao, G. S., Sastry, K.V. H., Tripathi, H. C., Jagmohan, Malik, J. K. 2005. Pharmacokinetics and tissue residues of pefloxacin and its metabolit norfloxacin in broiler chickens. *British Poultry Science Volume 46 No. 5*. Halaman 615 – 620.
- Papich M.G. 2016. *Handbooks of Veterinary Drugs Fifth Edition*. USA: Willey Blackwell.
- Patel, T., Marmulak, T., Gehring, R., Pitesky, M., Clapham, M., Tell, L. 2018. Drug residues in poultry meat: A literature review of commonly used veterinary antibacterials and anthelmintics used in poultry. *Journal of Veterinary Pharmacology and Therapeutics*, 41. 761-789.
- Parveen, S. A., Nalla, C. 2013. Development and Validation of A Simple and Rapid RP-HPLC Method For The Determination Metronidazole nad Norfloxacin Combined Dosage Form. *Indian Journal of Research in Pharmacy and Biotechnology*. 1(5). 686- 691.
- Pavhitra, BH, Prakash, N, Jayakumar, K. 2010. PK-PD Modelling of Norfloxacin After Oral Administration in Rabbits. *Veterinary World*. 3(12), 546 – 548.
- Phu, D. H., Wongtawan, T., Nam, T. T., Truong, D. B., Suttidate, N., Carrique-Mas, J., Chansiripornchai, N., Turni, C., Blackall, P. J., Thomrongsuwannakij, T. 2025. Prevalence and antimicrobial resistance of *Campylobacter jejuni* and *Campylobacter coli* over time in Thailand under a One Health approach: A systematic review and meta-analysis. *One Health*, 20, 100965.
- Pietro, W., Cybulski, W., Kos, K., Mitura, A. 2010. Analytical Procedure For The Determination of Tylosin A in Feedungstuff by Liquid Chromatography-Ultraviolet Detection. *Bulletin of Veterinary Institute in Pulawy*. 55, 725-729
- Poźniak, Błażej, Marta Tikhomirov, Karolina Motykiewicz-Pers, Kamila Bobrek, and Marcin Światała. 2020. Allometric Analysis of Tylosin Tartrate

- Pharmacokinetics in Growing Male Turkeys. *Journal of Veterinary Science* 21(3):e35.
- Randall, L., Anne R, Fabrizio L, Carol, R. 2016. In vitro investigations into the use of antimicrobials in combination to maintain efficacy of fluoroquinolones in poultry. *Research in Veterinary Science*. 108, 47-53, ISSN 0034-5288.
- Rasheed, C. M., Fakhre, N. A., Ibrahim, M. 2017. Simultaneous Determination of Enrofloxacin and Tylosin in Chicken Samples by Derivative Spectrophotometry. *Arabian Journal for Science and Engineering*, 42(10), 4453–4463.
- Redwan H., A., Sarker, M., Das, R., Azad, Md. A. K., Hasan, Md. M. 2023. A review on antibiotic residue in foodstuffs from animal source: Global health risk and alternatives. *International Journal of Environmental Analytical Chemistry*, 103(16), 3704–3721.
- Riveire J.E., Papich M.G. 2018. *Veterinary Pharmacology and Therapeutics Tenth Edition*. USA: Wiley Blackwell.
- Rosenbaum, S.E. 2016. *Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations 2nd Edition*. New Jersey: Wiley-Blackwell.
- Saleem, R. 2019. Pharmacokinetics of Cefquinome in Layer Birds Following Intramuscular and Intravenous Administration. *Pakistan Veterinary Journal*, 39(04), 493–498.
- Sang, K., Hao, H., Huang, L., Wang, X., dan Yuan, Z. 2016. Pharmacokinetic–Pharmacodynamic Modeling of enrofloxacin against *Escherichia coli* in Broilers. *Frontiers in Veterinary Science*. 2:80
- Sani, R. A., Rachmawati, A., Sunandar, S., Pertela, G., Jahja, E. J., Suandy, I., van den Broek, J., de Wit, S. J., Wagenaar, J. A., Speksnijder, D. C., Velkers, F. C. 2025. Longitudinal evaluation of interventions on antimicrobial use and antimicrobial resistance on broiler farms in West Java, Indonesia. *Poultry Science*.
- Seto, A. 2007. An Imperfect Science: Antibiotic Tissue Penetration. Will this fluoroquinolone reach site of infection ?. *Drug Therapy Topics*. 36(6): 27-30.
- Shah BR, Al Hakeem WG, Shanmugasundaram R, Selvaraj RK. 2025. A comparative evaluation of antibiotic and synbiotic supplementation on production performance and necrotic enteritis severity in broilers during an experimental necrotic enteritis challenge. *Front. Physiol*. 15:1511380.
- Sharma, S., Kaur, S., Naguib, M., Bragg, A., Schneider, A., Kulkarni, R. R., Nazmi, A., Abdelaziz, K. 2025. Major Foodborne Bacterial Pathogens in Poultry: Implications for Human Health and the Poultry Industry and Probiotic Mitigation Strategies. *Microorganisms*, 13(10), 2363.

- Shergel, L., Wu, P., dan Andrew, B.C. 2005. *Applied Biopharmaceutics and Pharmacokinetics*. 5th ed. Mc. Graw Hill. Company, Inc. USA. 1-16, 161-184, 251-301, 303-304.
- Shimada, S., Aboubakr, M., Elbadawy, M., Usui, T., Sasaki, K., Shimoda, M. 2023. Biliary excretion and pharmacokinetics of several fluoroquinolones after intravenous injection in rabbits. *Journal of Veterinary Medical Science*, 85(10), 1099–1105.
- Singh, R. N., Sahoo, S., Mishra, U., Garnaik, B., Sahoo, S. K., Hati, D. 2013. Stability Indicating RP-HPLC Method Development and Validation of Norfloxacin. *American Journal of Advanced Drug Delivery*. 1(5) 743-748.
- Sofian, A., Imansari, A.,N.,R. 2024. *Biofarmasetika dan Farmakokinetika*. Bandung. Widina.
- Soliman, A.M., Sedeik, M. 2016. Pharmakinetics and Tissue Residues of Tylosin in Broiler Chickens. *Pharmacology and Pharmacy*. Vol 7. 36-42.
- Stein, G. E. 1987. Review of the bioavailability and pharmacokinetics of oral norfloxacin. *The American Journal of Medicine*, 82(6), 18–21.
- Tesfaye, A. B., Werid, G. M., Tao, Z., You, L., Han, R., Zhu, J., Fu, L., Chu, Y. 2025. Advances in *Pasteurella multocida* Vaccine Development: From Conventional to Next-Generation Strategies. *Vaccines*, 13(10), 1034.
- Tjahajati, I., Subronto. 2023. *Farmakologi Veteriner: Farmakodinami, Farmakokinesis, dan Farmakologi Klinis*. Yogyakarta: Gadjah Mada University Press.
- Van, T., T., H., , Smooker P., M., Wu S., Wu Z. 2023. Editorial: Bacterial diseases in poultry: Biology, virulence and prevention in the age of reduced antibiotic use. *Frontiers in Veterinary Science*. 10:1189315.
- Vincent, U., Gizzi, G., Holst, C. von, Jong, J. D., Michard, J. 2007. Validation of an analytical method for the determination of spiramycin, virginiamycin and tylosin in feeding-stuffs by thin-layer chromatography and bio-autography. *Food Additives and Contaminants*. 24 (4), 351-359.
- Wibisono C, Wijayanti AD, Muzaki AY, Widiasih DA, Noviatry A. 2024. Validation of the method for determining lincomycin levels and calculating lincomycin levels in broiler chicken plasma using High-Performance Liquid Chromatography. *Open Veterinary Journal* 14(6) 1453-1459.
- Wibisono, C., Pamudya, K.G.S., Wijayanti, A.D. 2024. Kajian Artikel: Kajian Residu dan Deteksi Residu Antibiotik Norfloksasin dan Tilosin pada Ayam Broiler. *Jurnal Vitek Bidang Kedokteran Hewan*. Vol.14 No.1 Halaman149 – 155.
- Wibawati, P. A., Hartadi, E. B., Kartikasari, A. M., Wardhana, D. K., Abdramanov, A. 2023. Prevalence and profile of antimicrobial resistance in *Escherichia*

- coli isolated from broiler meat in East Java, Indonesia. *International Journal of One Health*, 9(1), 27–31.
- Wijayanti, AD, Ardiansyah, Rahmad Dwi, Pratama, Anggi Muhtar, Haryanto, Aris, Fitriana, Ida. 2022. Validation method for determining enrofloxacin and tylosin levels in broiler liver, kidney, and muscle using high-performance liquid chromatography. *Veterinary World*. 15 (2), 268-274.
- Wijayanti AD, Hakim, L, Widiyono I, Irianti T. 2010. Penentuan Efektifitas Oksitetrasiklin Melalui Parameter Farmakokinetik/farmakodinamik pada Plasma dan Jaringan Ayam Broiler. *Jurnal Veteriner* 11 (2): 119 - 125
- Wijayanti AD, Muzaki AY, Wibisono C, and Widiasih DA. 2024. Therapeutic effects of lincomycin and level of drug degradation in broiler tissues after treatment, *Veterinary World*, 17(5): 1026–1034.
- Wijayanti AD, Rosetyadewi AW, Pratama AM, Septana AI, Setyawan DCB, and Fitriana I. 2023. A recent update on the use of antimicrobials for animal health in Yogyakarta, Indonesia, *Int. J. One Health*, 9(2): 67–73
- Xiao, X., Jiang, L., Lan, W., Jiang, Y., Wang, Z. 2018. In vivo pharmacokinetic/Pharmacodynamic modeling of Enrofloxacin against *Escherichia coli* in broiler chickens. *BMC Veterinary Research*, 14(1), 374.
- Yuningsih. 2009. Keberadaan Residu Antibiotika dalam Produk Peternakan (Susu dan Daging). *Lokakarya Nasional Keamanan Pangan Produk Peternakan*: 48-54.
- Zeru F., Adamu H., Woldearegay Y.H., Sisay Tessema T., Hansson I., Boqvist S. 2025. Occurrence, risk factors and antimicrobial resistance of *Campylobacter* from poultry and humans in central Ethiopia: A one health approach. *PLOS Neglected Tropical Disease*. 19(8): e0012916
- Zhang L, Xie H, Wang Y, Wang H, Hu J Zhang G. 2022. Pharmacodynamic Parameters of Pharmacokinetic/Pharmacodynamic (PK/PD) Integration Models. *Frontiers in Veterinary Science*. 9:860472.
- Zhicheng Z., Melissa A. M., Lisa A Tell, Zhoumeng Lin. 2025. An open-source interactive physiologically based pharmacokinetic model of tylosin in broiler chickens and laying hens, *Toxicological Sciences*. 205 (2). 279–296.