

## PHARMACOKINETICS OF CHITOSAN-ETHACRIDINE ADDUCT IN RATS

V.O. ANTONYUK, N.O. MANKO, I.O. NEKTEGAEV, R.S. STOIKA

## References:

1. Cheung R, C.F., Ng T.B., Wong J.H., Chan W.Y. Chitosan: An Update on Potential Biomedical and Pharmaceutical Applications *Mar. Drugs* 2015, 13(8): 5156–5186 doi: 10.3390/md13085156.
2. Lootsik M. D., Bilyy R. O., Lutsyk M. M., Stoika R. S. Preparation of chitosan with high blood clotting activity and its hemostatic potential assessment. *Biotechnologia Acta*, **2015**, 8 (6), 32-40. doi.org/10.15407/biotech8.06.032.
3. Jiang H.L., Cui P.F., Xie R. L., Cho C. S. Chemical Modification of Chitosan for Efficient Gene Therapy. *Advances in Food and Nutrition Research*, **2014**, 73, 83-101. DOI: 10.1016/B978-0-12-800268-1.00006-8.
4. Sinha V.R., Singla A.K., Wadhawan S., Kaushik R., Kumria R., Bansal K., Dhawan S. Chitosan microspheres as a potential carrier for drugs. *Int. J. of Pharmaceutics*, **2004**, 274 (1-2), 1–33. doi.org/10.1016/j.ijpharm.2003.12.026.
5. Creteanu A., Stefanache A., Vieriu M., Tantar G., Ochiuz L. Study on the Formulation and Pharmacotechnical Characterization of Hydrophilic Matrix Tablets with Amiodarone Chlorhydrate *Rev. Chim.(Bucharest)*, **2019**, 70 (1), 1-5.
6. Geske T., Hachmann E., Effendy I. Wound treatment with ethacridine lactate in venous leg ulcers: A prospective, randomized, placebo-controlled, single-blind study *Vasomed* **2005**, 17(3):99-103.
7. Dyckhoff G., Pinkert P., Walk-Fritz, S., Hoppe-Tichy, T. Malodorous oozing lesions after local cancer treatment - ethacridine powder prevents local infection. *Drugs and Therapy Studies*. **2011**, 1(1), 31-32 . <https://doi.org/10.4081/dts.2011.e9>.
8. Zhao G., Yang Q., Zhan F. Acute renal failure in a patient with epidermolysis bullosa acquisita. *An. Bras. Dermatol.* 2017, 92 (5)supl.1, 14-16 <http://dx.doi.org/10.1590/abd1806-4841.20175755>.
9. Apaydin N., Kemiksiz E., Akcay A. Comparison of Manuka Honey (Manuka Nd, G) and Etacridine Lactate (Rivanol) Applications in the Treatment of Infected Wounds in Cats. *Acta Scientiae Veterinariae*, **2019**, 47: 1643-1650.
10. Junka A., Bartoszewicz M., Smutnicka D., Secewicz A., Scymczyk P. Efficacy of antiseptics containing povidone iodine, octenidine dihydrochloride and ethacridine lactate against biofilm formed by *Pseudomonas aeruginosa* and *Staphylococcus aureus* measured with the novel biofilm oriented antiseptics test. *Intern Wound J.* **2014**, 11 (6), 730-734 <https://doi.org/10.1111/iwj.12057>.
11. Mei Q., Lan L.X., Liu H. J., Zhou h.B. Effectiveness of mifepristone in combination with ethacridine lactate for second trimester pregnancy termination *Europ. J. Obstetrics, Gynecology and Reproductive Biology*, **2014**, 178, 12-15. DOI: <https://doi.org/10.1016/j.ejogrb.2014.04.04>.
12. Kolla V.E., Syropyatov B.Ya. Doses of drugs and chemical compounds for laboratory animals. Moscow, Medicine, 1998, 263 p. (in Russ.).
13. Palariu I., Varut M. C., Chirigiu L. M. E. Method of Determination of Rivanol by Laser Induced Fluorescence *Rev.Chim.(Bucharest)*, **2019**, 70 (1), 140-142.
14. Costa C. N., Teixeira V. G., Delpech M. C., Souza J. V., Costa M. A. Viscometric studies of chitosan solutions in acetic acid/sodium acetate and acetic acid/sodium chloride. *Carbohydr. Polym.* **2015**, 133, 245–250. doi: 10.1016/j.carbpol.2015.06.094.
15. Moura C.M., Moura J.M., Soares N.M., Pinto L.A.A.. Evaluation of molar weight and deacetylation degree of chitosan during chitin deacetylation reaction: Used to produce biofilm. *Chemical Engineering and Processing*, **2011**, 50, 351-355 doi:10.1016/j.cep.2011.03.003.