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Sincerely,

Managing editor of World's Veterinary Journal

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Manuscript Submission System for WVJ

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Manuscript Title: *	Elastin Expression and Thickening in Virgin and Postpartum Rat Models
Manuscript Type: *	Research
Request Fast Peer-Review? *	Yes
Submission Type: *	New
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ABSTRACT:

(Do not omit from manuscript file.) *

Child birth induces a number of alterations, including ligament weakening and increased vaginal distensibility. The occurrence of vaginal laxity or distensibility is associated with the vaginal wall and introitus overstretching during vaginal parturition, while the pathophysiology is due to increased levator dimension and trauma to the levator ani muscle through avulsion (macrotrauma) or overdistension (microtrauma). Elastin is an extracellular matrix protein that confers elastic properties to organs and tissues, particularly those requiring elasticity. Elastin plays a vital role in the functioning of numerous tissues, such as the lungs, blood vessels, heart valves, ligaments, tendons, and skin. It is also a component of the vaginal mucosa. The aim of this study to evaluate the role of elastin in the thickening of the postpartum vaginal wall composed of epithelial mucosa, and to understand the mechanism underlying vaginal laxity or distensibility within parous and nulliparous animal models. A total of 32 female white rats (*Rattus norvegicus*) were used in this study. They were divided into two groups, each group comprising of 16 rats. The control group (Group 1 (C0)) comprised of virgin nulliparous rats, which were sacrificed on day two after vaginal parturition. Pregnant rats (Group 2 (C1)) were sacrificed on the second day after vaginal parturition. The median elastin expression in group C0 was higher (4.2 ± 1.34) than that in group C1 (2.85 ± 0.5). The expression of elastin in the control group C0 was notably different from that in the treatment group C1 ($P = .008$; $\alpha < .01$). The mean thickness of the vaginal mucosal epithelium in group C0 ($568, 931 \mu\text{m}$) was greater than that in group C1 ($4, 498, 349 \mu\text{m}$). The comparison of vaginal mucosal epithelium thickness between the two groups indicated a significant difference between the groups C0 and C1 ($P = .033$; $\alpha < .05$). Elastin levels were significantly correlated with epithelial thickness ($P = .385$; $\alpha < .05$). The expression of elastin significantly affects the vaginal wall thickness, which further affects vaginal laxity or vaginal distensibility.

Submission Cover Letter: *

Surabaya Indonesia, April 6 2021

To,
Editor-in-Chief,
World's Veterinary Journal (WVJ)
Ömer Nasuhi Bilmen Road, Dönmez Apart., G Block, No:1/6, Yakutiye, Erzurum/25100, Turkey
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SUB: Submission of manuscript at World's Veterinary Journal (WVJ)

Dear Sir, I have submitted manuscript entitled "Elastin Expression and Thickening in Virgin and Postpartum Rat Models" at your reputed journal, which has not been published anywhere in any language and online or hard print version. If any things will be found I will be only responsible for the same.

I choose the fast review process is within 1 week and the publication fee is 230 Euro (280 USD) in all methods of payment except pay pal system.

Kindly consider it.

Yours Truly,
Prof. Dr. Widjiati, M.Sc., DVM

Article Preparation Type: *

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DECLARATION OF THE AUTHORS

All authors of the manuscript titled: “Elastin Expression and Thickening in Virgin and Postpartum Rat Models”

intended for publication in WVJ declare that:

- they agree to its publication after any amendments arising from the peer review
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- no results of other researchers were used in the submitted manuscript without their consent, proper citation or acknowledgement of their cooperation or material provided
- the results (or any part of them) used in the manuscript have not been sent for publication to any other journal nor have they already been published (or if so, that the relevant works are cited in this manuscript)
- submission of the manuscript for publication was completed in accordance with the publishing regulations pertaining to their workplace
- experiments performed comply with current laws and written consent of Scientific Ethic Committee / National Animal Care Authority is available (as it is mentioned in the manuscript submitted)

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