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The Effects of Allopurinol on Stomach Mucosal Barrier of Rats Subjected to Ischemia-Reperfusion

Abdurrahman ÖNEN¹



Zeki KANAY²

Cihat GÜZEL³

Doğan KURT²

Kader CEYLAN³

Departments of ¹Pediatric Surgery, ³Physiology,
Faculty of Medicine , ²Department of Physiology,
Faculty of Veterinary Medicine, Dicle University,
Diyarbakır-Turkey

 [Keywords](#)
 [Authors](#)



medsci@tubitak.gov.tr

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Abstract: The present experimental study was carried out on rats subjected to ischemia and reperfusion. The effects of allopurinol on mucus, an important component of the stomach mucosal barrier, were investigated. Twenty-one Swiss Albino rats, each weighing 200-250 g, were used. On the control group, no treatment was performed, while the sham operation group was subjected to 30 minutes of ischemia and 20 minutes of reperfusion. Then, stomachs were examined for ulcerative lesions, and ulcer scores were recorded. Mucus content was determined by the Corne method. In the sham group, the mucus decreased to a significant extent ($p<0.01$). It was observed that allopurinol prevented stomach lesions ($p<0.01$). Also, allopurinol prevented mucus reduction in rats subjected to ischemia and reperfusion ($p<0.01$). The results indicate that allopurinol is effective on stomach mucosal barrier parameters and in preventing stomach lesions caused by ischemia and reperfusion.

Key Words: Ischemia and reperfusion, stomach mucosal barrier, allopurinol

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