

## عنوان مقاله:

*Annona muricata* L. extract decreases intestinal glucose absorption and improves glucose tolerance in normal and diabetic rats

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## خلاصه مقاله:

**Introduction:** Poorly controlled hyperglycemia causes numerous health complications. Postprandial hyperglycemia is an important indicator of diabetic status. The aim of this research was to evaluate the effect of *Annona muricata* L. extract on the in vitro intestinal glucose absorption in diabetic rats and in vivo antihyperglycemic activity in both normal and diabetic rats. **Methods:** Phytochemical screening of the aqueous extract from the leaves of *A. muricata* was carried out. Albino rats were randomly assigned into normal and diabetic groups. Each group was divided into three subgroups: control (vehicle), experimental (*A. muricata*), and standard (Metformin) groups, to determine antihyperglycemic activity at different times after glucose overload. The everted intestinal sac technique was used to study intestinal glucose absorption in diabetic rats. **Results:** Aqueous leaf extract of Peruvian *A. muricata* exhibited statistically significant ( $P < 0.05$ ) in vivo antihyperglycemic activity in both normal and diabetic rats when compared to the control group. The magnitude of the effect was similar to metformin treatment. Moreover, the aqueous leaf extract of *A. muricata* significantly diminished in vitro intestinal glucose absorption, with a magnitude similar to metformin treatment. Phytochemical analysis of the aqueous extract revealed the presence of tannins, flavonoids, alkaloids, and leucoanthocyanidins, among others. **Conclusion:** This study reveals that *A. muricata* aqueous extract is able to reduce .in vitro intestinal glucose absorption and improve oral glucose tolerance in rats

## کلمات کلیدی:

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