## عنوان مقاله:

Anti-hyperglycemic, lipid-lowering, and anti-obesity effects of the triterpenes  $\alpha$  and  $\beta$ -amyrenones in vivo

## محل انتشار:

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## خلاصه مقاله:

Objective: Diabetes, obesity, and their associated metabolic disorders are public health problems that require prevention and new efficient drugs for treatment. We evaluated the anti-hyperglycemic, lipid-lowering, and anti-obesity effects of semisynthetic  $\alpha$ ,  $\beta$ -amyrenones (ABA). Materials and Methods: BALB/c mice were used for performing an acute model of oral carbohydrate and triglyceride tolerance, and in a streptozotocin-induced diabetes model, where glycemia and body weight changes were measured during ten days. CayBL/ $\beta$  strain mice were used in the dietinduced obesity model, where lipidemia and body weight were measured during four weeks, and biochemical and histological parameters were analyzed after euthanasia. The doses considered in this study were Y $\alpha$ ,  $\alpha$ , and  $\alpha$ 

mg/kg of ABA, used following some criteria for each experiment. Results: ABA ΥΔ mg/kg reduced the postprandial glycemia peak higher than acarbose Δ∘ mg/kg (p <∘.∘Δ). ABA Δ∘ mg/kg significantly reduced glycemia in diabetic mice compared to acarbose Δ∘ mg/kg (p <∘.∘Δ). There was a reduction in the weight of the obese animals treated with ABA ΥΔ and Δ∘ mg/kg (p <∘.∘Δ). ABA Δ∘ mg/kg also significantly reduced lipidemia in these animals compared to orlistat Δ∘ mg/kg. Conclusion: This study presents evidence of ABA's action in reducing postprandial glycemia and obesity in mice

کلمات کلیدی:

Amyrenone, Obesity, Diabetes, Glycemia

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