# *9th Yazd International Congress and Student Award on Reproductive Medicine with 4th Congress of Reproductive Genetics*

## Poster Presentations

**P-107**

### Prosopis farcta improves histopathological disorders and reduces oxidative stress of testicular tissue in diabetic rats

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**Background:** Prosopis farcta (PF) has antioxidant effects and might be effective in avoiding damaging effects of diabetes on the testicular tissue.
**Objective:** This study purposes to examine the effect of PF on oxidative stress and the structure of testis in diabetic rats.
**Materials and Methods:** 32 male adult Wistar rats were randomly divided into control, PF, diabetic and diabetic/PF. Streptozotocin was administered intraperitoneally to induce diabetes mellitus in rats. PF group and PF-treated diabetic group received intraperitoneally 300 mg/kg extract of PF for 30 days. At the end of the study, the rats were weighed and dissected. Then, oxidative stress and histopathology of testis were examined.
**Results:** The level of malondialdehyde in diabetic rats treated with PF decreased in compared with diabetic group ($p = 0.001$), although PF extract increased the level of superoxide dismutase in the diabetic group ($373.9 \pm 16.6$) ($p < 0.001$). Moreover, PF decreased testicular damage caused by diabetes mellitus.
**Conclusion:** Hydroalcoholic extract of PF improves testicular tissue structure in diabetic rats via decreasing oxidative stress.
***Key words:*** *Testis, Rat, Prosopis farcta.*

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