

## عنوان مقاله:

ارزیابی محتویات هیدروکسی پرولین در بافت تاندون آلوگرافت منجمد پوشش داده شده با سلولهای بنیادی مزانشیمی و پلاسمای غنی از پلاکت در بره

## محل انتشار:

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## خلاصه مقاله:

Background: Tendon grafting is mostly required to repair an injury to flexor tendon and due to the importance of this tendon; it needs methods to speed up the re-vitality of the tendon allograft. OBJECTIVES: The aim was to investigate the efficacy of the mesenchymal cells and platelet rich plasma on the hydroxyproline content of frozen allograft tendons after grafting in lamb. METHODS: In this experimental study, mid portion (five cm) of SDFT of fifteen lambs, from both forelimbs were removed and replaced with frozen allografts tendon. Animals were divided into 3 subgroups of 5 lambs each: control, PRP and MSCs. The hydroxyproline concentration was measured by after 60 days. Data was analyzed using student t test at  $P < 0.05\%$ . RESULTS: The normal mean values of hydroxyproline content was  $137.171 \pm 5.291$  mg/g dry matter which  $87.694 \pm 6.502$  in control group but  $99.694 \pm 1.839$  in PRP group and in group treated with MSC was recorded  $134.322 \pm 2.123$  mg/g dry matter ( $P < 0.05\%$ ) it was quite significantly different between control tendons with that of normal one of the same animal. There was marked increase in hydroxyproline content of MSC group when compare with that of control and PRP groups. CONCLUSIONS: The results of this study showed .that MSCs could enhance HP content in the frozen grafted tendon in lamb

## کلمات کلیدی:

Frozen tendon, Hydroxyproline, Lamb, Mesenchymal cell, PRP

## لینک ثابت مقاله در پایگاه سیویلیکا:

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