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**Role of platelet-rich plasma in healing diabetic foot ulcers among CKD patients in resource poor setting.**

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**Objectives:**

Trophic ulcers secondary to DM pose a great stigma to the patients and remain a challenge to the treating dermatologists. To determine whether autologous PRP promotes the healing of chronic wounds as compare with conventional therapy among DM with CKD patients

**Methods:**

Study among the 32 patients having chronic wound. Participants were divided in to two groups: a study group in which PRP was used and a control group receiving standard therapy.

After wound bed preparation, activated PRP was sprayed over the ulcer and occlusive dressings were applied. Same procedure was repeated every week until complete re-epithelisation or up to six sittings whichever occurred earlier. Wound assessment was carried out according to the Bates-Jensen Wound Assessment Tool at weekly for 4 times.

**Results:**

After application of PRP, there was significant improvement in mean wound score and significant percent improvement in wound score in the study group ( $p < 0.0001$ ). Complete healing occurred in all patients in the study group in (mean score and standard deviation)  $36.7 \pm 3$  days compared with  $60.6 \pm 3.7$  days in the control group ( $p < 0.0001$ ). There were no unwanted side effects in patients using the PRP in this study.

**Conclusions:**

DM induced ulcer wound healing time is shorten as compared with conventional therapy. Chronic ulcers affect patient health, emotional state and quality of life, causing considerable morbidity and mortality in addition to contributing to significant health care costs. PRP therapy leads to faster rate of induction of granulation tissue with rapid healing. Healing had no direct statistical correlation with the size, site and duration of ulcer It is a simple, safe and cost effective in-office procedure, albeit requiring an optimal set-up and expertise. PRP therapy has been growing as a viable treatment alternative for chronic ulcers in resource poor setting