Platelet Rich Plasma Give Promising Results in Chronic Wound Healing

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Abstract

We have treated two cases of non-healing wound after radiation.

One is Pharyngo cutaneous fistula - Pharyngo Cutaneous Fistula (PCF) is the communication of the digestive tract with the cervical skin which originates the appearance of saliva on the skin surface after swallowing.

Second is the post-operative metastatic lymph node excision from left side of neck.

The PRP and PRP Gel works better in this kind of cases. We are submitting reports from our center.

Keywords: Platelet Rich Plasma (PRP); Chronic Wound Healing

Objective of the Study

To check the efficacy the platelet rich plasma (PRP) and PRP Gel in wound healing.

Materials and Methods

PRP Machine, ACD vacutainer, blood collection kit.

As we all know PRP is full of growth factors and we have so many papers on that topic.

The major factors are:

- Platelet-rich plasma also known as autologous platelet rich plasma protein derived from whole blood.
- Platelet derived growth factor
- Transforming growth factor beta
- Fibroblast growth factor
- Insulin-like growth factor 1, insulin-like growth factor
- Vascular endothelial growth factor
- Epidermal growth factor
- Keratinocyte growth factor
- Interleukin 8
- Connection tissue growth factor.

Result

We are presenting two post-operation cancer patients:

1. Laryngeal pharyngeal fistula healed by PRP injection.
2. Deep non-healing wound left level 5 of neck healed by PRP injection. Images of both cases attached for review.

Case 1

Figure 1: Pre-PRP.

Figure 2: Post-PRP

Figure 3: Final

Case 2

Figure 4

Conclusion

PRP is a promising agent for healing of post-radiation fistula and post-radiation non-healing wound [1-3].

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