

[EP122] PRP AND DERMAL SUBSTITUTE SOAKED IN PRP FOR THE TREATMENT OF ACUTE AND CHRONIC WOUNDS

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Aim: Several studies have shown that chronic wounds can, in some cases, be sustained by a lack of growth factors due to various causes, such as a decrease in production, decreased release, entrapment, excessive tissue degeneration or association of these mechanisms. Platelet-rich autologous plasma injection (PRP), used as a source of healing factors, has been shown to promote tissue repair.

Method: To enhance the action of the chemical mediators contained in PRP and facilitate re-epithelization, the ulcer is covered with a dermal substitute (a pad of hyaluronic acid and collagen) soaked in PRP and left in place for 3-6 days. In total 20 patients were treated from 2018 to 2019 as follows:

- 5 mixed grade ischemic and venous wounds
- 2 patients with vasculitis wounds
- 2 post traumatic wounds
- 1 post chemotherapy treatment wounds
- 10 venous ulcers (post thrombotic, varicose ulcers)

Results / Discussion:

After treatment in the operating room, we saw the wounds after 3 days and treated them like an autologous skin autotransplant, leaving inside the hyaluronic/collagen based pad soaked with PRP. At the 5th post-operating day, we have seen an improvement of the wounds, of the skin around the wounds and a reduction of the size of the lesion. After one month, 15 wounds were healed. Of the remaining 5 wounds: 2 wounds healed after two months, 2 got better but they didn't heal. The last one was a wound larger than 10 cm and didn't respond positively to the treatment.

Conclusion:

In our experience, there has been a lot of evidence on positive role that the combined action of injection of PRP and application of a hyaluronan/collagen based dermal substitute soaked with the same preparation rich in platelets on the healing of trophic lesions. This hybrid procedure is still in the standardization phase. It is an inexpensive and easy treatment.