ABSTRACT BOOK ABSTRACTS



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HAIR DISORDERS

THE USE OF PLATELET RICH PLASMA TO TREAT RADIATION-INDUCED SCARRING ALOPECIA: A CASE REPORT

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Case Description: We report the case of a 33-year-old female with history of a teratoma at age 27 with metastasis to the brain at age 30. As chemotherapy was unsuccessful, she underwent generalized head radiation and presented in 2015 with asymptomatic diffuse thinning hair loss, more prominent on frontal, vertex, and parietal scalp. Diagnosis is consistent with radiation-induced scarring alopecia. Treatments in the past two years have included intralesional kenalog, microneedling, and fractional photothermolysis. Although the condition is stable, these treatments have yielded minimal improvements and the patient opted for a trial of platelet rich plasma (PRP). She has received three rounds of PRP, six weeks apart and reports improvement in hair texture and frontal and vertex hair volume at her 6 week follow up appointment. Non-invasive in-vivo laser imaging data, suggest 20% improvement in hair follicle and hair shaft amount compared to pre-PRP treatment.

Discussion: This case shows that PRP may be an effective treatment for radiation-induced scarring alopecia. The patient presented here is satisfied with her results and is validated by quantitive measures of change. We intend to report results at even longer term follow-up of three and six months post-third-PRP-treatment, as it is important to further develop guidelines for dosing frequency of PRP in radiation-induced alopecia.



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