

Study of autologous platelet rich plasma versus its combination with intense pulsed light in treatment of melasma.

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Abstract

Background: Melasma is a common acquired hypermelanosis of variably successful therapies with frequent relapse. Platelet-Rich-Plasma (PRP) is a promising treatment in melasma, alone or combined with other treatments.

Objective: We evaluated efficacy of autologous PRP in melasma treatment and the effect of combined intense pulsed light (IPL).

Methods: Study included 20 Egyptian female melasma patients. PRP was injected in all melasma area and IPL was used on the right hemi-face.

Results: Melasma Area and Scoring Index (MASI) of melasma area, modified-MASI (mMASI) of PRP-IPL side and of PRP side significantly decreased after treatments (p-value <0.05). There was no statistically significant difference between both sides regarding mMASI score or patient and physician satisfaction (p-value >0.05).

Conclusion: Our study provides the first comparison between PRP versus its combination with IPL in melasma treatment. We think the improvement of melasma with regression of melasma scores after PRP treatment is an important finding.

Keywords: Melasma-PRP-IPL- MASI