

**PLATELET RICH PLASMA FOR THE  
TREATMENT OF UNDER EYE DARK CIRCLES**

**FAZLEENAH BINTI AJMUL HUSSAIN  
1001128969**

**MASTER OF SCIENCE (ANTI-AGING,  
REGENERATIVE MEDICINE AND MEDICAL  
AESTHETIC)  
FACULTY OF MEDICINE AND HEALTH SCIENCES  
UCSI UNIVERSITY**

**2014**

## ABSTRACT

Infra-orbital dark circles are a cosmetic concern for a large number of individuals. Dark circles under the eyes are defined as bilateral, round, homogeneous pigment macules on the infra-orbital regions. Despite its significant prevalence, there are a few published studies about its pathogenesis and treatment. Dark circles are caused by multiple etiologic factors that include dermal melanin deposition, post inflammatory hyperpigmentation secondary to atopic or allergic contact dermatitis, peri-orbital edema, superficial location of vasculature, and shadowing due to skin laxity. Treatment of dark circles is often tricky and not well recognized despite its high prevalence in our ethnic population. Topical creams, autologous fat transplant, fillers are amongst the therapies that have been tried with varying results. Recently there has been growing interest in the use of platelet rich plasma (PRP) in the treatment of infra-orbital dark circles. One of the most impressive outcomes of PRP is in orbital rejuvenation. This case report illustrates the use of PRP in the treatment of under eye dark circle. A 30 year old female of Indian origin, with no known past medical history attended clinic with concerns of dark circles around the eyes was given PRP injection into the peri-orbital area at 4 weekly intervals. 6 months post treatment the patient was seen at follow up clinic. The results of the review showed that PRP can be used for the treatment of under eye dark circles.

UCSI UNIVERSITY LIBRARY