ABSTRACT BOOK
LATE-BREAKING ABSTRACTS

24TH WORLD CONGRESS
OF DERMATOLOGY
MILAN 2019

A new ERA for global Dermatology
10 – 15 JUNE 2019
MILAN, ITALY

AESTHETIC AND COSMETIC DERMATOLOGY (LASERS SEPARATE CATEGORY)

INCREASING GROWTH FACTORS LEVEL OF PLATELET-RICH FIBRIN LYSATE BY USING VARIOUS DEGREES OF HYALURONIC ACID CROSSLINKING DERMAL FILLERS

Nora Ariyati Ariyati [1] *- Kusworini Kusworini* [2] *- Nurdiana Nurdiana* [3] *- Yohanes Widodo Wirohadidjojo Wirohadidjojo* [4]

Brawijaya University, Doctoral Program Of Medical Science, Malang - East Java, Indonesia [1] *- Brawijaya University, Clinical Pathology - Faculty Of Medicine, Malang - East Java, Indonesia* [2] *- Brawijaya University, Pharmacology - Faculty Of Medicine, Malang - East Java, Indonesia* [3] *- Gadjah Mada University, Dermatology And Venereology, Yogyakarta, Indonesia* [4]

Background: Several benefial ingredients have been introduced to treat the fibroblast premature aging skin, in which we use hyaluronic acid (HA) and PRF lysate (PRF-L) as the combination. Nowadays, the most favoured medical therapy for aging on skin is using HA crosslinking of dermal fillers. Thus, the PRF-L properties that are rich in growth factors (GF), the combination of those ingredients is expected to create finer synergistic and potentiation effects.

Objective: The objective of this study is to learn the effect of numerous degrees of HA crosslinking on GF levels in PRF-L.

Materials and Methods: PRF of healthy adult venous blood with 72 hours of incubation was basically prepared to produce PRF-L, along with the HA was also prepared by using 3 crosslinking degrees of 3%. 4%, and 10%. Measurement method of GF levels was completed by using sandwich ELISA method. The amount of GF levels was TGF-β1, PDGF-BB, and bFGF.

Results: The addition of HA crosslinking intensified GF levels in PRF-L. Higher crosslinking degree (4% & 10%) showed lower effect on releasing GF of PRF-L, therefore the lower one (3%) indicated better result.

Conclusions: The best GF released was benefited from the usage of HA crosslinking lower degree. Lower degree of HA crosslinking has intensified GF levels in PRF-L.

24TH WORLD CONGRESS
OF DERMATOLOGY
MILAN 2019

International League
of Dermatological Societies
Skin Health for the World

1885
Società Italiana di Dermatologia
(SIDeMaST)