

Proceedings of

15th World Conference on

COSMETIC DERMATOLOGY & SKIN DISEASES

September 25-26, 2019 | Lisbon, Portugal



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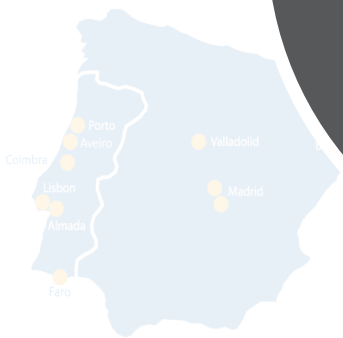
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**KEYNOTE
SESSION**



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Platelet-rich Plasma skin treatments evaluated by Confocal Laser Scanning microscopy and other bioengineering methods

Introduction & Objectives: Platelet-rich Plasma (PRP) has been shown to improve skin function parameters like skin elasticity and angiogenesis by release and degranulation of growth factors and cytokines. The present study uses bioengineering methods to evaluate skin specific functional parameters and collagen reestablishment and neo-synthesis by Confocal Laser Scanning Microscopy (LSCM) in a group of patients with photo aging submitted to PRP treatments during 3 months.

Materials & Methods: 12 patients were submitted to a PRP treatment, due to photo aging on the face. After a phlebotomy, a PRP preparation was obtained, a local anesthetic was applied, and administration on the affected area by SC injection was performed at D0, D30 and D60. All the patients were evaluated for wrinkle 3D parameters, collagen quantification, and Photo aging parameters through Primos 3D, LSCM and VISIA-CR systems before and after each treatment.

Results & Discussion: Results show a 36, 6 % wrinkle reduction on both crow's feet and nasolabial fold areas. Regarding collagen formation and reorganization, there was a 9,3 % increase in both parameters after the end of the study. Finally, results suggest a decrease in the Brown and UV spots evaluated by VISIA-CR system. These findings suggest a neo-synthesis of collagen and other matrix components, probably due to activation and proliferation of fibroblasts that improves the skin appearance and reverts in a significant way some effects of photo aging.

Conclusions: Skin improvement was observed in during the treatments. The results, particularly the collagen formation and reorganization, suggest an effect on dermis functionality that improves skin condition in photo aging patients.

Biography

Leonor Girão is a Medical Doctor in Dermatology and Venereology, Lisbon, Portugal. She is the Chief Dermatologist in Dermatologia do Areeiro Clinic, Lisbon, Portugal and also chief Dermatologist in the PhD Trials a Contact Research Enterprise. She has work experience in Aesthetics Dermatology as well as General Dermatology, Pediatric Dermatology, Mycology, and Dermatotomy. She has been a regular speaker in several National and International Dermatological meetings. She is also a Member of Portuguese Society of Dermatology and Venereology Member of Portuguese Society of Cosmetology. She is also a Member of Portuguese Association of Skin Cancer.

girao.leonor@gmail.com



Leonor Girão

Clínica Dermatologia do Areeiro, Portugal

Co-Authors

Manuel Fitas, Pedro Contreiras Pinto

PhD Trials R&D Department, Lisbon,
Portugal

University of Lisbon, Portugal