

IN VIVO DEMONSTRATION OF THE EFFICACY OF A FACE SKINCARE FLUID CONTAINING JASMONIC ACID DERIVATIVE [LR2412] ON SKIN QUALITY IMPROVEMENT, ON 4 DIFFERENT ETHNIC ORIGIN GROUPS.

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BACKGROUND AND OBJECTIVE

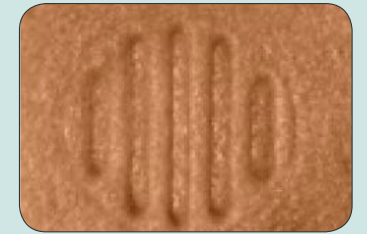
The skin is a living organ that undergoes various genetic, environmental and behavioral influences. These influences will condition its surface qualities. For women whatever their skin phototype and their ethnic origin, the improvement of the skin quality presents a real concern and generally includes the same characteristics in each ethnic group. The aim of this study was to evaluate in vivo the efficacy of a cosmetic skincare fluid containing an association of Jasmonic acid derivative [LR2412] and a botanical complex, on skin surface quality parameters, on a multiethnic panel.

MATERIALS & METHODS

- Controlled study conducted on 220 women volunteers, aged 35 to 60. The multi ethnic panel comprised **56 African American, 54 Caucasian, 56 Hispanic and 56 Asian**, with Fitzpatrick skin types I-VI.
- The volunteers were included in the study on the following criteria: presence of fine lines and wrinkles on eye contour area, dull and inhomogeneous complexion, visible pores (inclusion score ≥ 4 on specific Atlas, 8 grades), lack of skin tonicity (inclusion score ≥ 3 on skin bounciness Atlas, 11 grades), cutaneous imperfections (color heterogeneity, 11 grades). All subjects applied the face skincare containing the association [LR2412] + botanical association twice a day for 4 weeks.
- Evaluation by a trained evaluator at T0 and T4w (N=110), using a 10 cm analogical scales:
 - Clinical scoring of fine lines & wrinkles visibility around the eyes,
 - Clinical scoring of skin smoothness,
 - Clinical scoring of skin radiance/luminosity,
 - Clinical scoring of complexion homogeneity,
 - Clinical scoring with the a calibrated tool, indicator of skin bounciness,
 - Clinical scoring of pores visibility with the polarized lightning tool,
 - A self-evaluation questionnaire was also filled in by the volunteers at T0, T1 and T4w, to evaluate perceived efficacy (N=220).



Picture of skin bounciness measurement tool.



Example of a mark left on skin by bounciness after standard pressure on skin.



Picture of polarized lightning observation tool.

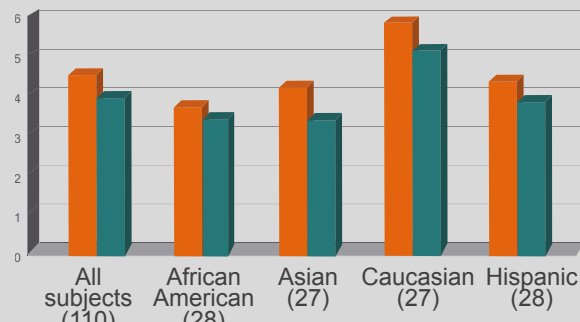


Polarized lightning observation tool usage.

RESULTS

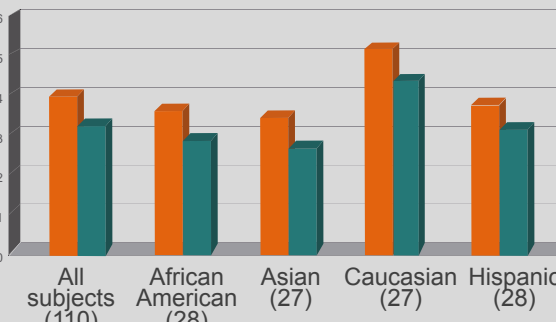
1 CLINICAL EVALUATION OF AGEING SIGNS

Fine lines and wrinkles



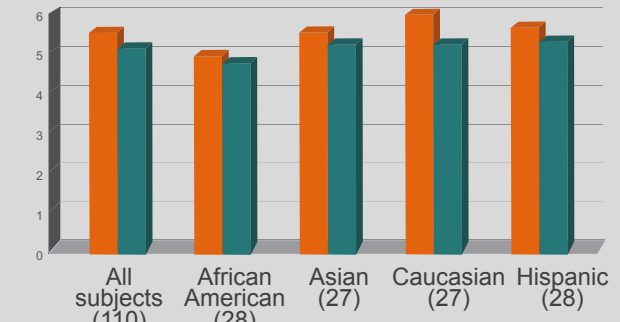
Clinical score 0 (no wrinkle) to 10 (many wrinkles).
Significant efficacy for each group at T4w ($p < 0,0001$) vs T0.

Skin smoothness



Clinical score 0 (very smooth) to 10 (very rough).
Significant efficacy for all groups at T4w ($p < 0,0001$) vs T0.

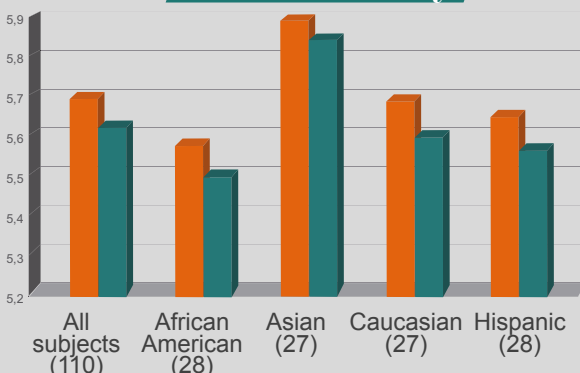
Skin bounciness



Clinical score 0 (very bouncy) to 10 (non bouncy).
Significant efficacy for Asian ($p = 0,008$), Caucasian ($p < 0,0001$) and Hispanic ($p = 0,002$) groups at T4w vs T0.
No significance for African American group at T4w vs T0.

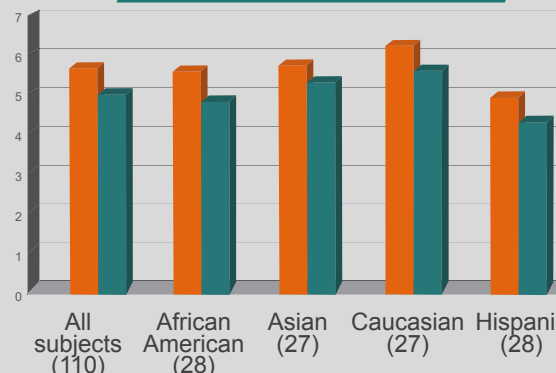
2 CLINICAL EVALUATION OF SKIN QUALITY

Pore visibility



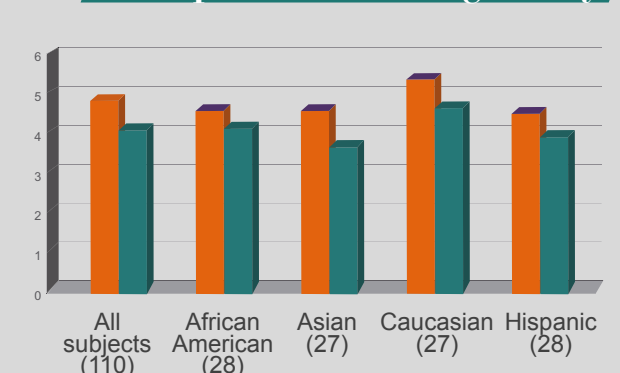
Clinical score 0 (non visible) to 7 (very visible).
Visibly reduction for African American ($p = 0,02$), Caucasian ($p = 0,03$) and Hispanic groups ($p = 0,03$) at T4w vs T0.
No significance for Asian group at T4w vs T0.

Skintone radiance



Clinical score 0 (very radiant) to 10 (very dull).
Significant efficacy for all groups at T4w ($p < 0,0001$) vs T0.

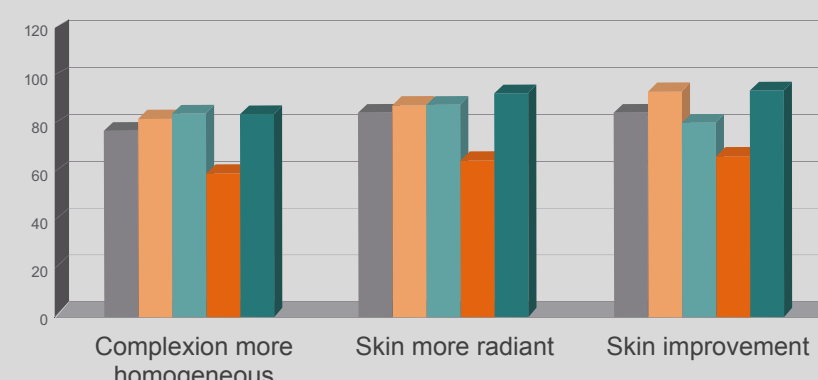
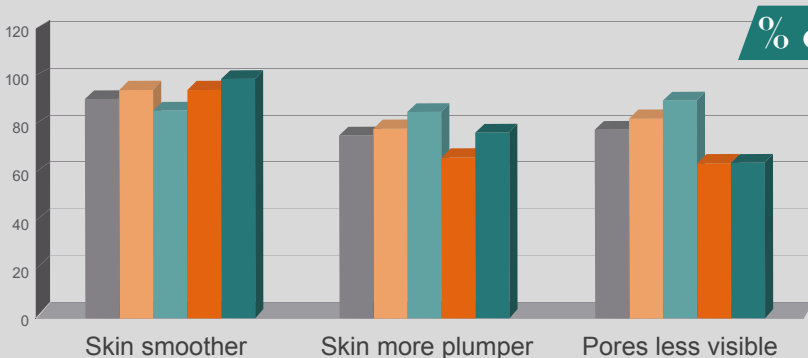
Complexion homogeneity



Clinical score 0 (very homogeneous) to 10 (non homogeneous).
Significant efficacy for all groups at T4w ($p < 0,0001$) vs T0.

3 EVALUATION OF WOMEN AFTER 4 WEEKS OF DAILY USAGE

% of satisfaction



CONCLUSION

This study suggested the interest for using the same face skincare containing [LR2412] + a botanical complex for topical daily use, to improve the quality and the homogeneity of the skin surface in different ethnic groups. This interest was observed both by the investigators thanks to clinical observations and by the women for the 4 different ethnic groups. These study suggested that a single cosmetic could respond to an universal and multiethnic skin expectation.
Limitation: This 4-week clinical study with 2 evaluations (T0 and T4 weeks) could be complemented by an another clinical study in order to observe the evolution of intra-and inter-ethnic chosen parameters over a longer term.

The authors declare no conflict of interest