

## **EVALUATION OF THE EFFICACY OF COLLAGEN LIFT® PARIS LUMINOUS GOLD ON FACIAL SKIN AFTER 84 DAYS OF USE BY CHINESE POPULATION. CIDP Pte Ltd, Singapore.**

A 12-week study was conducted in Singapore from October to December 2019 to evaluate the efficacy of Collagen Lift® Paris Luminous Gold on facial skin in Chinese population. In this study, the effectiveness of the Luminous Gold on wrinkles present on the face, crow's feet, facial pigmentation as well as facial dermal hydration levels in a Chinese female population over a period of 84 days were assessed.

22 Chinese females aged between 40 to 65 years old (mean age:  $52 \pm 2$  years old) were recruited. All subjects presented with a grade of  $\geq 2$  and  $\leq 5$  for localized pigmentary spots on both cheeks and crow's feet wrinkles as well as a grade of  $\geq 1$  and  $\leq 4$  for nasolabial folds and glabellar wrinkles, and a skin dryness grade of  $\geq 1$ .

Clinical assessment of wrinkles was conducted by the principal investigator in-situ at D0, D28, D56 and D84. VISIA-CR™ was used to take standardised photos of faces on each visit. Sets of 3 photos were taken of each side of the entire face (i.e.  $\frac{3}{4}$  right, front and  $\frac{3}{4}$  left side) using standard 1 and standard 2 lighting. These photographs were used as reference for the expert evaluators to assess the wrinkles using the scale in Skin Aging Atlas (Asian).

Subjects were required to consume one ampoule daily for a total of 84 days.

### **Exclusion criteria included:**

Subjects who had undergone dermatological skin rejuvenation procedures such as light-therapies (IPL, lasers, radiofrequency and other lights treatments) collagen or other facial tissue augmentation, fillers, botox, or retail micro-dermabrasion on the face within the last one year preceding the baseline visit were excluded in the study. The following medications were not allowed 2 weeks prior to the start and during the study: topical or systemic antibiotics, steroids, NSAIDs, etc. Throughout the study, the participants were prohibited from changing their dietary habits and cleansing routine and from consuming any additional nutritional or whitening supplement.

### **Results**

20 subjects completed the study and the data for all 20 subjects were analysed. Based on the clinical grading, significant improvements were observed from D0 to D84 and considered effective in improving facial wrinkles severity, localised facial pigmentation and localised facial dermal hydration.

#### **1. Facial wrinkles**

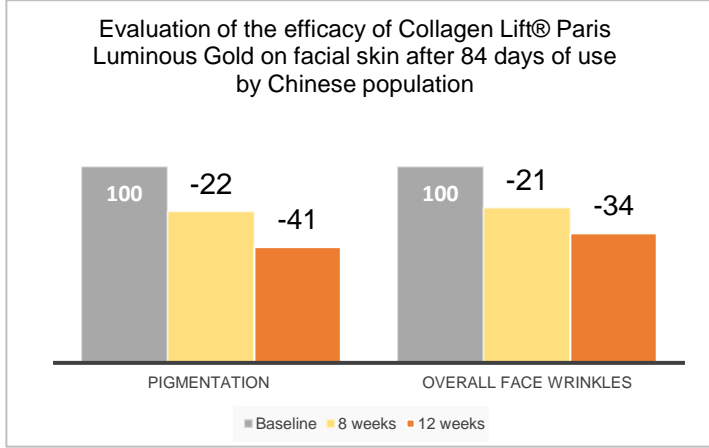
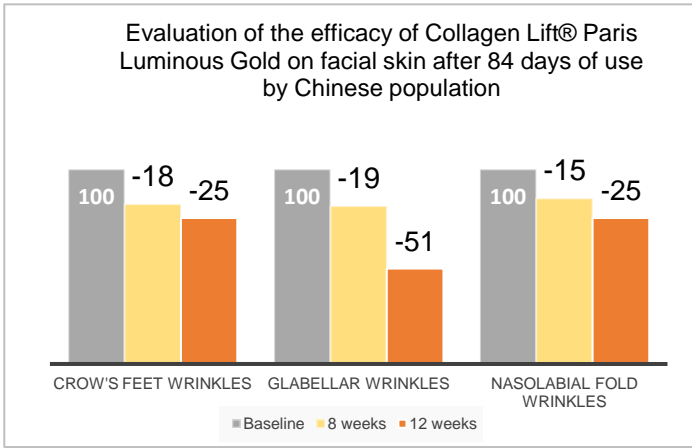
Statistically significant improvements in the severity of the facial wrinkles evaluated (crow's feet, glabellar wrinkles and nasolabial fold) were observed by both assessors (one performed in-situ and the other through evaluation of VISIA images) at each visit (D28, D56, D84) in comparison to D0. The mean score of the overall face wrinkles for each assessor was also found to be significantly lower at D28, D56, and D84, when compared to D0. In agreement with the improvement in the clinical grading of the crow's feet wrinkles, Primos analysis of both crow's feet wrinkles also showed significant decrease in the average wrinkle volume, area, and depth at D84 in comparison to D0.

Based on the questionnaire, there was a decrease in the percentage of subjects who reported visibility of their nasolabial folds (a decrease from 95.00% to 40.00%), glabellar wrinkles (a decrease from 85.00% to 35.00%), and crow's feet wrinkles (a decrease from 80.00% to 35.00%) from D0 to D84. Overall, 65.00% of the subjects felt that the product helped reduce their facial wrinkles visibility.

#### **2. Localised facial pigmentation**

There was an improvement in localised facial pigmentation observed over the course of the study. The mean score of localised facial pigmentation for each assessor was found to be significantly lower at D28, D56 and D84, when compared to D0. The product displayed efficacy in reducing facial pigmentation.

Based on the questionnaire, the percentage of subjects who reported visibility of their pigmentation decreased from 90.00% to 40.00% from D0 to D84. Overall, 75.00% of the subjects felt that the product helped their facial pigmentation appear lighter after 84 days of product use.



3. Skin hydration levels

There was an improvement in skin hydration levels as evaluated by the PI and as measured by Corneometer®. The mean score of localised facial skin dryness was found to be significantly lower at D28, D56, and D84 when compared to D0. In accordance with the trend in improvement of skin dryness as observed by the PI, mean Corneometer® readings were found to be significantly higher at D56 and D84, when compared to D0. There was, however, a slight decrease (which was not significant) in skin hydration on D28 which could have been attributed to the haze Singapore experienced in the month of September. Haze consists of high levels of airborne pollutants such as soot and dust particles. Dust can behave as a physical irritant which may be extremely drying to the skin and clog pores. In particular, on the visit held on 18 Sep 2019 (D28), the 24H pollutant standards index (PSI) values were in the range of 100-128 (classified as unhealthy) between the hours of 0700 -1400. To conclude, the product exhibited efficacy in improving facial skin hydration levels.

Based on the questionnaire, the percentage of subjects who reported a having dry skin decreased from 75.00% to 20.00% from D0 to D84. Overall, 70.00% felt that the product helped their facial skin feel more hydrated. In addition, there was an increase in the percentage of subjects who felt that their skin was radiant, firm, soft, smooth, and supple from D0 to D84.

4. Overview of questionnaires

Overall, the product was well received with 85.00% of the subjects reporting their satisfaction with Collagen Lift® Paris Luminous Gold in general. On top of the reported satisfaction with regards to improvements in visibility of wrinkles and pigmentation as well as skin hydration, 55.00% of the subjects were also satisfied with the performance of the product on their hair and nails, and 31.58% were satisfied with the performance of the product on their cellulite (if any).

Conclusion

Based on the results of the study, it can be concluded that consuming Collagen Lift® Paris Luminous Gold daily was considered effective in improving facial wrinkles severity (crow's feet, glabellar wrinkles and nasolabial fold) localised facial pigmentation and localised facial dermal hydration.

