

EVALUATION OF THE EFFICACY AND TOLERANCE OF A WHITENING SHEET MASK ALONE AND IN COMBINATION WITH A WHITENING SERUM ON ASIAN PANEL

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INTRODUCTION

The purpose of the study was to evaluate the efficacy and tolerability of a sheet mask containing salicylic acid, hydroxypropyl tetrahydroprantril (sugar derivative), 3-O-ethyl ascorbic acid (vitamin C derivative) and a ceramide when used alone and in combination with a facial serum containing salicylic acid, hydroxypropyl tetrahydroprantril (sugar derivative), 3-O-ethyl ascorbic acid (vitamin C derivative), by a panel of Asian women presented with hyperpigmentation and dark spots.

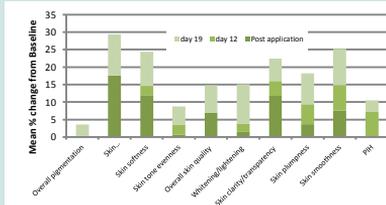
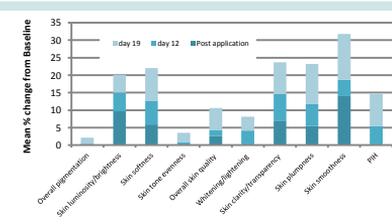
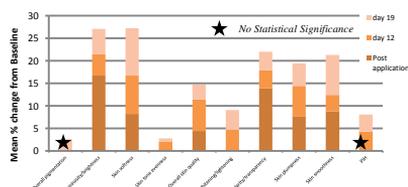
METHODS

This single center, comparative, three cell 3-weeks clinical study included 159 Asian female subjects aged 34 to 65.

	Cell 1	Cell 2	Cell 3
Age			
N	53	51	55
Mean	53.5	52.7	50.1

Figure 1: Number of subjects and average age for each cell.

RESULTS



Comparison between Cell 2 and Cell 3: Statistically significant differences in favor of the Mask + Serum (X), indicating a boosting effect from the mask for the following attributes:

	Cell 3 (Mask + Serum)		
	Post Appl.	Day 12	Day 19
Skin luminosity	X		X
Skin softness	X		
Skin tone evenness		X	X
Overall skin quality	X		X
Skin clarity / Transparency	X		

All these subjects presented with:

- mild to moderate hyperpigmentation and dark spots
- mild to moderate uneven skin tone
- mild to moderate lack of skin clarity
- mild to moderate facial PIH/PIE (40% of subjects)

Subjects in cell 1 used a sheet mask twice a week.

Subjects in cell 2 used a facial serum twice a day.

Subjects in cell 3 used both mask and serum as described above.

Product efficacy was assessed by clinical grading at baseline, post-application, day 12 and day 19. Self assessment questionnaires, color chart assessment and digital photography were also included in the study.

Tolerability was assessed by objective and subjective assessments and monitoring of adverse reactions.

Baseline

Day 19



Figure 2: Cell 1 (Mask alone) - Statistically significant improvement in clinical grading scores at post application (first mask application), Day 12 (after 4 mask applications) and Day 19 (after 6 mask applications)



Figure 3: Cell 2 (Serum alone) - Statistically significant improvement in clinical grading scores at post application, Day 12 and Day 19

Figure 5: Subjects showed similar improvement to those of the entire study panel on skin luminosity/brightness, skin clarity/transparency, whitening/lightening at Day 19 (Cell 1 - after 6 mask applications).

Figure 4: Cell 3 (Mask + Serum) - Statistically significant improvement in clinical grading scores at post application (first mask application), Day 12 (after 4 mask applications) and Day 19 (after 6 mask applications)

CONCLUSION

A statistically significant improvement was observed in luminosity/brightness, softness, overall skin quality, skin clarity/transparency, skin plumpness and skin smoothness from the first application of the mask alone as well as the first application of mask + serum, and these improvements were also confirmed after 4th and 6th applications of mask alone and mask + serum. A statistically significant improvement was noticed in the skin tone evenness and whitening/lightening after 4th and 6th application of mask alone and mask + serum. PIH and overall pigmentation showed a statistically significant improvement after the 6th application of the mask alone and mask + serum.

A statistically significant boosting effect from the mask was observed when Cell 1 was compared to Cell 3 on skin luminosity, skin softness, skin tone evenness, overall skin quality, skin clarity/transparent throughout the study.

A statistically significant decrease in the clarity of the tracked pigmented spot was observed after the 6th application of the mask alone as well as mask + serum and in the clarity of the spotless area after the 4th and the 6th application of the mask alone and after the 6th application of the mask + serum, in comparison to the baseline evaluation, on the basis of the clinical evaluation using a colour scale.

Self assessment questionnaire results indicate that the mask alone and mask + serum were well perceived by the subjects.

Tolerance assessments indicated that the tested products was well tolerated by the subjects throughout the study.

« The authors declare no conflict of interest »