

Cosmetic acceptability and efficacy evaluation of a nutritive and moisturizing cream with jojoba oil

Study Records:

1. **Objective:** On the first stage, four creams with jojoba oil will be evaluated in different concentrations, the purpose of this study is to find out the attributes of the creams, the test will be made "simple blind". The second stage will consist in measuring the moisture in vivo and by means of a non invasive method, to verify the cosmetic efficacy of jojoba oil.
2. **Individuals Selection:** 22 volunteer panelists were selected with ages between 37 and 65 years old. They showed biotype skin, normal, dry and oily.

Sensorial Evaluation:

1. **Objective:** These tests will detect the presence or absence of sensorial differences between various cosmetics. The cream attributes with jojoba oil are being described.
2. **Methodology:** A differential test was made for the 4 nutritive creams involved, where samples were supplied to each panelist, as it is in the triangular test, two samples of control cream without jojoba oil and one with jojoba oil with a known concentration. Then, we proceeded to make a study of the sensorial behavior called rub out.

Results:

- a) **Triangular Test:** The panelists detected the samples with jojoba oil and could also place three creams in order according to the amount of jojoba oil.
- b) **Magnitude level scale test:** then, a test was made with 100% success. It consisted in ordering the creams with increasing lubricity.

Sensorial characteristics of different moisturizing and nutritive creams

Cream OOJ: less concentration of jojoba oil (2%)

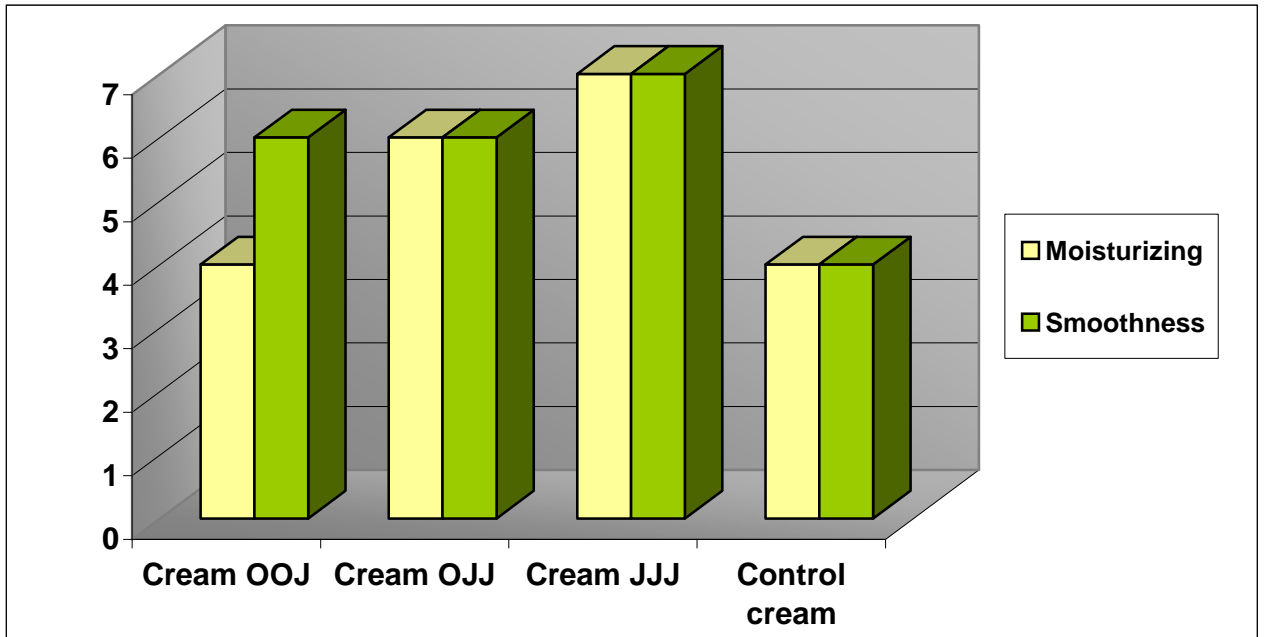
Cream OJJ: medium concentration (5%)

Cream JJJ: maximum concentration (10%)

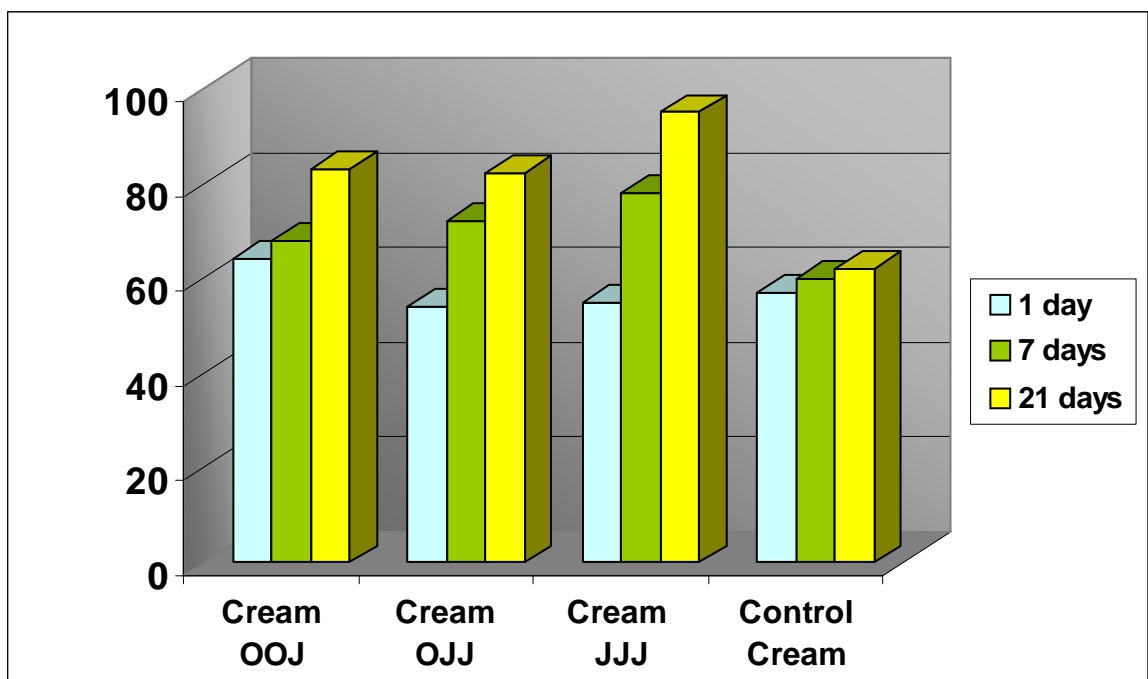
Control Cream: with no jojoba oil

Tested Cream	Cream OOJ	Cream OJJ	Cream JJJ	Control cream
Stickiness	4	4	5	2
Humidity	4	6	7	4
Expansion	7	7	8	5
Absorption	79	80	95	70
Brightness	5	5	5	4
Slippery	5	5	6	3
Reminders	4	4.5	6	3
Oily	2	2	3	2
Grassy	3	3.5	4	2
Waxy	3	4	5	1
Smoothness	6	6	7	4

Comparison of the most representative attributes of the various formulations: moisturizing and smoothness



**Test with specific instrumental
Epidermis moisture measure.**



Conclusion:

According to the measures made with the sensorial technique tests, cream JJJ presents high values of moisturizing, absorption and skin smoothness, compared to the cream control with the same formulation but with no jojoba oil.

The performance of creams OOJ and OJJ with jojoba oil, in increasing order, shows similar sensorial values on smoothness but not on moisturizing, which is clearly increasing on the one with a mayor concentration of jojoba oil.

Furthermore, according to the results obtained by means of a corneometer (a device used to measure indirectly the electric capacitance of corneal stratum and the hydration degree of skin surface)) the cream with mayor concentration of jojoba oil shows higher values of moisturizing after 7 and 21 days of use in comparison with the other two formulations that show similar values.

It is important to mention that from the sensorial information and clinical application it appears that these creams could be used on normal to dry skins, or otherwise on regressive photoaged skins, for the facial and corporal area.