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Ginkgo biloba leaves extract's cosmeceutical evaluation: a preliminary assessments on human volunteers towards achieving improved skin condition and rejuvenation

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Abstract

Background

Ginkgo biloba (GB) leaves extract is known to possess potent antioxidants and other bioactivities such as improved skin conditions and rejuvenation.

Objective

This study aimed to develop a cosmeceutical preparation to utilize the strong antioxidant potential of GB leaves as part of the skincare formulation.

Methods

Cream incorporated GB (GBC) was prepared by mixing the obtained extract with stearic acid-sodium hydroxide components in an emulsion format. The obtained GBC was characterized for GB contents, uniformity, pH, compatibility, stability, and skin's human application.

Results

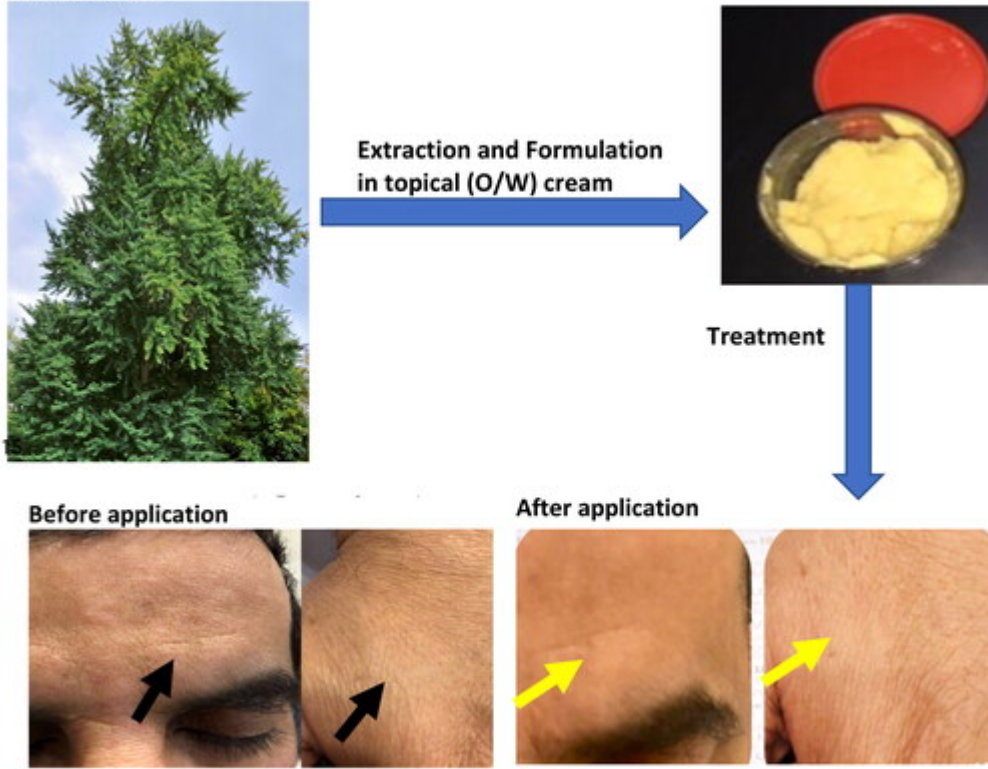
A homogeneous, physically, and chemically stable, with pH near the skin pH and shiny cream, was obtained. The prepared cream was easy to rub and pearly in appearance. It was effective and safe during the two-week trial conducted on human volunteers according to clinical trial registry protocols. The cream scavenged free radicals in DPPH assay tests. The cream incorporated GB made the skin more spirited and tauter. Furthermore, the wrinkles were reduced and the skin was renewed vigor.

Conclusion

The GBC worked at the topical level and provided benefits when applied daily for the trial duration. The formulation also provided visually observable anti-wrinkle effects on the skin, with visible improvements in the skin's shape and texture. The prepared cream can be used to rejuvenate the skin.

Graphical Abstract

Ginkgo biloba



Q Keywords: Cosmeceutical *Ginkgo biloba* aged antioxidant anti-inflammatory skin rejuvenation anti-wrinkle

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Correction Statement

This article has been corrected with minor changes. These changes do not impact the academic content of the article.

Additional information

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