

# Journal of Pharmacognosy and Phytochemistry

Available online at www.phytojournal.com



E-ISSN: 2278-4136 P-ISSN: 2349-8234

https://www.phytojournal.com JPP 2024; 13(2): 143-145 Received: 27-01-2024 Accepted: 29-02-2024

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# Herbal formulations for the treatment of dark circles

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**DOI:** <a href="https://doi.org/10.22271/phyto.2024.v13.i2b.14879">https://doi.org/10.22271/phyto.2024.v13.i2b.14879</a>

#### **Abstract**

The eyes, also a focal point of facial expression, not only convey the full range human emotion but also have a significant impact on how one is perceived in terms of health and beauty. When there is more melanin produced across the eyes than is usual, giving them a darker color, the situation is periorbital Hyperpigmentation. In the existing research an attempt has been made to formulate, represent and carry out the in-vitro evaluation of an under-eye cream containing herbal extracts for lightening the darkish eye contours. The characterization contains of Figuring out the physicochemical parameters which proves the genuinity of the plant cloth procured. The Cream was assessed for its protection and balance. The aesthetic appeal of the product was additionally studied. The aqueous extract of the drug was tested for its anti tyrosinase activity. The under-eye cream formulation showed right aesthetic appeal, balance and safety.

Keywords: Herbal, anti-hyperpigmentary, cosmetic, anti-inflammatory, anti-ageing

#### Introduction

Herbal formulations is a dosage form consisting of one or more herbs or processed herbs especially quantities to provide specific nutritional, cosmetic advantages and are meant to diagnose, treat, alleviate disease of humans or animals, alter the structure of humans or animals.

Herbal formulation contain an herbal substance or in combination with one or more herbal substances to method like extraction, distillation, fractionation, fermentation consist of powder.

Polyherbal formulations means using multiple herb in a therapeutic preparation. In Ayurveda multiple herbs in a selected ratio can be used in the treatment of ill.

# Importance of herbal formulations in India

- 1. India has a completely long, secure and continuous usage of many herbal drugs in the officially diagnosed opportunity structures of health *viz*. Ayurveda, Yoga, Unani, Siddha, Homeopathy and Naturopathy. These systems have rightfully existed aspect-through-aspect with Allopathy and aren't in 'the area of obscurity', as said by Venkat Subramanian.
- Millions of Indians use herbal drugs regularly, as spices, home-remedies, health meals as well as over-the-counter (OTC) as self- remedy or also as drugs prescribed in the nonallopathic systems.
- 3. The extra than 500,000 non-allopathic practitioners are trained in the medical colleges (>400) of their respective systems of health and are registered with the official councils which display professionalism. Hence, these systems aren't folklore or traditional herbal practices. There are basic axioms of these systems leading to a logical and systematic structure of pathogenesis and diagnosis, which serves also as a determinant for therapy.
- 4. The developer of a powerful herbal product penicillin, Nobel-laureate Ernst Boris Chain wrote an inspiring article entitled "The quest for brand spanking new biodynamic substances". In 1967, he wrote, "In China and India there was an in depth force aimed toward the systemic study of medicinal plants traditionally utilized in these nations in folklore medicine; this has failed, so far, to bring to mild new lessons of compounds with exciting pharmacologic activities. As far as drug studies is concerned, therefore, we can-now no longer anticipate many major surprises to return back from the look at of plant constituents".
- 5. The modern review might disprove the infallibility of this Nobel laureate, by giving examples of novel activities of Indian medicinal plant life.

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6. Herbal medication is used to treat many conditions, including allergies, asthma, eczema, premenstrual syndrome, rheumatoid arthritis, fibromyalgia, migraine, menopausal symptoms, chronic fatigue, irritable bowel syndrome, and cancer, among others.

# What are the dark circles of under eye?

Dark circles under your eyes mean the area of skin under your eyes looks darkened. This region may also appear as shades of blue, purple, brown or black, depending for your natural skin color.

Dark circles under your eyes may also make you look tired or older than you are.

# Causes of dark circles

- Contact dermatitis.
- Fatigue.
- Genetics.
- Rubbing or scratching your eyes.
- Skin changes that happen with aging.
- Sun exposure.
- Deficiency of vitamins.
- Lack of sleep.
- Due to dehydration.



Fig 1: Dark circles

# Mechanism of action

The area under the eyes can seem darker because of constricted blood vessels causing hyperpigmentation, or from thinning of the skin around the eyes.

# Treatment for dark circles Home treatment

- **1. Get extra sleep:** Try to get at least seven hours of sleep every night time to save you shadows from acting round your eyes.
- **2. Use more pillows:** Elevate your head with a couple of more pillows to save you fluid from amassing under your eyes at night time. This may also assist with puffiness.
- **3.** Cold compress: Apply bloodless spoons for your eyes to assist cut back dilated blood vessels. This can reduce puffy eyelids and the advent of dark circles.
- **4.** Cucumbers: Lay cucumber slices on your eyes. This can help with puffiness because cucumbers are full of water and vitamin C.
- Teabags: Place cold tea bags under your eyes. This can increase circulation because tea contains caffeine and antioxidants.
- **6. Facials:** Facials that include massage around the eye area can help improve circulation.

# **Medicinal treatment**

- 1. Topical creams and bleaching agents: Topical creams, including vitamin C, and bleaching agents, including hydroquinone, can assist lighten the appearance of dark circles under your eyes.
- **2. Chemical peels:** Chemical peels use alphahydroxy acids to reduce the pigmentation under your eyes.
- **3. Laser therapy:** Laser procedures can help resurface and tighten your skin. Noninvasive laser options include pulsed dye and diode lasers.
- **4. Tissue fillers:** Injectable fillers including hyaluronic acid gel can growth quantity and help clean out your skin.
- **Eyelid surgery:** In a method called blepharoplasty, extra fat and skin are removed out of your eye area.
- **6. Platelet-wealthy plasma (PRP) injections:** These injections can restore the skin round your eyes, velocity of blood vessel growth and strengthen collagen and your skin.





Fig 2: Dark circle removoal creams



Fig 3: Under eye creams

# Under eye gels

Table 1: Herbs used in the treatment of dark circles

Sr. No.	Title	Name of Journal, Volume, Year	Author's name	Significance
1.	Turmeric A Herbal and Traditional Medicine	Archives of applied science research Year 2009, 1(2) 86-108	Mr. KP Sampath Kumar's Debjit Bhowmik, Marget chandira, Balasundaram jaykar	Antioxidant, antiseptic.
2.	A review on blending of com starch with natural and synthetic polymers, and inorganic nanoparticles with mathematical modeling.	International Journal of Biological Macromolecules Volume 122, 1 February 2019, Pages 969-996	Shazia Tabasum a Muhammad Younas b1, Muhammad Ansab Zaeem Irfan Majeed", a Muzamil Majeed Aqdas Noreen", Muhammad Naeem Iqbal, Khalid Mahmood Zia	Anti-tanning agent
3.	A review: phytochemical constituent's medicinal uses and economical value of orange peels. (Citrus sinensis L Osbeck)	International journal of creative research thoughts (IJCRT): An International Open Access. Peer- reviewed. Refereed Journal Volume 8. Issue 5 May 2020	Sheetal N. Khandla, Milan S. Vala, Bharat B Maitreya	Antioxidant, source of vitamin c
4.	Almond oil: Power house of nutrients	Agricultural engineering international the CIGR journal, volume 22, year 2022	Akubude, vc, maduake, IN, Egwuonwu, CC. olanıyan, Ajala, E.O. Ozumba Nwosu	Antioxidant, antihiperpigmentary, moisturizer.

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