

## Role of Hydration in Scalp Care and Treating Common Scalp Issue

Rivka Fiely\*

Department of Dermatology, Kenyatta University, Nairobi, Kenya

### DESCRIPTION

Dandruff is a common scalp condition characterized by the shedding of dead skin cells from the scalp, resulting in visible flakes that can cause discomfort and embarrassment. Affecting millions of people worldwide, dandruff is often misunderstood and can be challenging to manage without a proper understanding of its underlying causes. This article discusses about the causes of dandruff, methods for diagnosing the condition, and effective treatment strategies [1].

### Causes of dandruff

Dandruff can arise from various factors, each contributing to the irritation and flaking of the scalp. Understanding these causes is important for effective management and treatment.

**Seborrheic dermatitis:** This is the most common cause of dandruff. Seborrheic dermatitis is a chronic inflammatory skin condition that causes red, greasy and scaly patches on the scalp. It is believed to be related to an overgrowth of *Malassezia*, a type of yeast that survives in oily environments. This yeast can cause inflammation and increased skin cell turnover, leading to dandruff [2].

**Dry scalp:** Dry scalp occurs when the skin loses moisture, leading to flakiness and itchiness. Unlike seborrheic dermatitis, dry scalp flakes are usually smaller and less oily. Dryness can result from environmental factors, such as cold weather or low humidity, as well as the use of harsh shampoos or hair products.

**Poor hair hygiene:** Infrequent washing or improper cleansing of the scalp can lead to a buildup of dead skin cells and oils, contributing to dandruff. Hair products and styling products left on the scalp can also exacerbate the problem [3].

### Diagnosing dandruff

Clinical examination dermatologist or healthcare provider will examine the scalp to assess the extent and type of flaking. The appearance of the flakes, as well as the presence of redness or irritation, helps differentiate between dandruff and other scalp conditions. Medical history provider will inquire about the patient's medical history, including any history of skin conditions,

recent changes in hair care products, and lifestyle factors that may contribute to the condition. In some cases, a scalp biopsy may be necessary to rule out other conditions, such as psoriasis or eczema. This involves taking a small sample of scalp skin for microscopic examination to determine the underlying cause of the symptoms [4].

### Treatment options

Treating dandruff effectively often requires a combination of lifestyle changes and targeted treatments. Here are some common approaches:

**Medicated shampoos:** Over-the-counter and prescription shampoos can help manage dandruff. Key ingredients to look for includes zinc pyrithione an antifungal agent that helps reduce the growth of *Malassezia* yeast [5].

**Moisturizing treatments:** For those with a dry scalp, using moisturizing treatments can alleviate flakiness and itching. Look for conditioners or scalp treatments that contain ingredients like aloe vera, coconut oil or glycerin to provide hydration.

**Home remedies:** Some individuals find relief with home remedies, such as applying apple cider vinegar or baking soda to the scalp. These remedies may help balance the scalp's pH and reduce flakiness, though their effectiveness is not universally proven [6].

### Prevention and management

Preventing dandruff involves maintaining good scalp health and avoiding factors that may exacerbate the condition. Here are some tips:

**Regular washing:** Wash hair regularly with a gentle shampoo to keep the scalp clean and remove excess oils.

**Avoid irritants:** Use hair products that are free from harsh chemicals, fragrances and dyes that can irritate the scalp.

**Stay hydrated:** Drinking plenty of water and using moisturizing hair products can help keep the scalp hydrated [7-8].

**Correspondence to:** Rivka Fiely, Department of Dermatology, Kenyatta University, Nairobi, Kenya, E-mail: Fiely.r@gmail.com

**Received:** 21-Aug-2024, Manuscript No. HTT-24-33877; **Editor assigned:** 23-Aug-2024, PreQC No. HTT-24-33877 (PQ); **Reviewed:** 06-Sep-2024, QC No. HTT-24-33877; **Revised:** 13-Sep-2024, Manuscript No. HTT-24-33877(R); **Published:** 20-Sep-2024, DOI: 10.35248/2167-0951.24.14.267

**Citation:** Fiely R (2024). Role of Hydration in Scalp Care and Treating Common Scalp Issue. J Hair Ther Transplant. 14:267.

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**Manage stress:** Reducing stress through relaxation techniques and a healthy lifestyle can improve overall skin health and potentially reduce dandruff symptoms [9-10].

## CONCLUSION

Dandruff is a common condition with various potential causes, including seborrheic dermatitis, dry scalp, psoriasis and eczema. Accurate diagnosis is key to determining the most effective treatment, which may involve medicated shampoos, lifestyle changes and in some cases prescription medications. By understanding the underlying causes and implementing appropriate treatments, individuals can manage dandruff effectively and improve their scalp health.

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