Scalp Itch: A Systematic Review

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Scalp · Itch · Pruritus · Seborrheic dermatitis · Contact dermatitis · Anxiety · Lichen planopilaris · Lice · Pediculosis · Psoriasis · Trichoscopy

Abstract
Scalp itch is a frequent complaint in the dermatological setting. It is common for the dermatologist to encounter patients with no evident cause of scalp pruritus, making it a distressing situation for both the clinician and the patient. The aim of this paper is to propose a systematic approach to scalp itch, which classifies scalp pruritus into two types: (1) with or (2) without dermatological lesions, and presence or absence of hair loss. Also, it is important to think first about the most common causes and then rule out other, less common etiologies. The acronym SCALLP and the five steps for scalp evaluation (listen, look, touch, magnify, and sample) are useful tools to keep in mind for an assertive approach in these patients.

Introduction
Scalp itch is a frequent complaint in the dermatological setting. Itch, by definition, is the presence of an uncomfortable tingling or uneasy sensation, which is associated with a desire to scratch \cite{1}. Just like skin pruritus, its etiology may be of dermatological or non-dermatological origin. It is common for the dermatologist to encounter patients with no evident cause of scalp pruritus, making it a distressing situation for both the clinician and the patient. The aim of this paper is to review the clinical signs of the most common causes of scalp itch and other less common causes that must be considered in a systematic approach to scalp pruritus.

Materials and Methods
We performed a MEDLINE search through PubMed (1975–2017), using the terms scalp itch and scalp pruritus and included clinical trials, review articles, case series, and case reports to search for the causes of scalp itch.

Pathophysiology
Although various pathogenic etiologies contribute to scalp pruritus, the scalp itself has distinct neuroanatomy and vasculature, specific neuromediators and corresponding receptors, as well as the presence of scalp sebum and microflora, which are all properties that may explain its tendency to be implicated in patients who complain of itch.
Sebum amount and composition vary considerably from individual to individual [2]. Free fatty acids maintain the surface pH and contribute to skin homeostasis [3]. The overall composition of the scalp surface lipids may change in response to dermatological conditions such as atopic dermatitis, seborrheic dermatitis, and psoriasis.

The hair follicle has been recognized as a neuroendocrine organ. It is innervated by multiple structures such as free, lanceolate and Merkel nerve endings, as well as pilo-Ruffini corpuscles. Corticotropin-releasing hormone receptors in the hair follicle have been associated with degranulation and an increased number of perifollicular mast cells [4]. The extent of hair fiber innervations, neuropeptide expression, including interaction with mast cells varies with hair cycling. Cutaneous innervation is also altered by neuropeptides in inflammatory skin diseases [5, 6].

**Patient Examination**

For evaluating scalp itch, we can follow the five steps proposed by Shapiro and Otberg for evaluation of hair loss: listen, look, touch, magnify, and sample, while focusing on scalp itch [7].

**Causes**

We propose the acronym SCALLP in order to easily recall the most common causes of scalp itch (Fig. 1). Often, the explanation will be related to one of these causes.

A practical method to classify scalp itch is to consider two types: (1) with or (2) without dermatological lesions. The presence or absence of hair loss may also help with the diagnosis. It is very important to consider that secondary lesions due to scratching, such as crusts and lichen simplex chronicus, that may be present even in cases without a dermatological origin since they are self-inflicted.

In patients with dermatological lesions, we can systematically work through the differential diagnosis using a clinical approach, depending on type of lesion. It is also important to remember that scalp itch may be related to more than one cause, and more than one type of lesion may present. This classification is shown in Figure 2.

**Scalp Itch with Skin Lesions**

*Scalp Itch with Scaling/Erythema*

Scalp itch associated with interfollicular and perifollicular scales and/or erythema can be due to the following causes: seborrheic dermatitis, scalp psoriasis, contact dermatitis, early lichen planopilaris (LPP), tinea capitis, dermatomyositis, and xerosis secondary to atop dermatitis or aging skin. Other less common causes of scalp conditions that may present with scalp itch and hyperkeratosis are pityriasis rubra pilaris, discoid lupus and Langerhans cell histiocytosis [8–10]. Trichoscopy, direct sampling and cultures are useful tools for diagnosis. Histopathology can confirm diagnosis in doubtful cases.

*Seborrheic Dermatitis*

Seborrheic dermatitis, which affects approximately 16% of the adult population, is one of the most common causes of scalp itch. In a French study, 50% of affected patients complained of scalp itch. Other common symptoms included sensations of pricking, tightness, pain, and burning [11]. Pruritus in seborrheic dermatitis typically disappears or decreases in severity after shampooing. The diagnosis of seborrheic dermatitis may be clinical when scalp itching is associated with flaking in seborrheic body parts such as mid-face and upper chest and back. However, it must be distinguished from psoriasis and contact dermatitis. On trichoscopy, seborrheic dermatitis and contact dermatitis present with arborizing vessels, whereas psoriasis presents with red dots at low magnification and twisted capillary loops at high magnification [12].

*Psoriasis*

Itch is present in 67–97% of patients with psoriasis [13–18]. Specifically, scalp itch has been reported in up to 80% of patients with psoriasis, and there is positive...
correlation between the severity of the lesions in scalp psoriasis and the severity of itch [19]. Possible mechanisms that explain pruritus in scalp psoriasis are hyperinnervation, neurogenic inflammation, neuropeptide misbalance, abnormal functioning of the peripheral opioid system, cytokine release, and vascular abnormalities [20, 21]. Regarding quality of life, pruritus is considered by patients as the most important factor that impairs the ability to work, with a negative impact on concentration in 52.5% of patients [15, 22]. The characteristics of pruritus in scalp psoriasis are variable: most of the patients refer intermittent pruritus, and the most important exacerbating factors are stress and temperature [21].

On trichoscopy, in 10x magnification, red dots and globules are present in up to 87% of the patients [23]. At higher magnification, twisted red loops are characteristic; also globules and glomerular vessels may be present [24]. In a comparative dermatoscopic study of 20 patients which scalp psoriasis and 20 patients with seborrheic dermatitis, patients with scalp psoriasis presented with dotted vessels in 50% of cases, glomerular vessels in 65%, red loops in 80%, hairpin vessels in 85%, white scales in 50%, and punctate hemorrhages in 60%. In patients with seborrheic dermatitis, arborizing vessels were present in 80% of cases, atypical red vessels in 65%, and honeycomb pigment in 45% [25]. Scalp psoriasis commonly causes increased hair shedding, and psoriatic alopecia may be present in severe cases.

**Contact Dermatitis**

Contact dermatitis is another common cause of scalp itch. Clinically, it may present with itch, erythema, and scaling. Arborizing vessels are commonly seen on trichos-
Copy. Contact dermatitis often complicates other scalp disorders, as an interrupted skin barrier predisposes to sensitization. In a study of 1,320 German patients, the most common sensitizers in patients with scalp contact dermatitis were hair dyes (p-phenylenediamine, toluene-2,5-diamine, p-aminophenol, 3-aminophenol, p-aminoazobenzene, and pyrogallo) and cocamidopropyl betaine, which is a common detergent in shampoo [26]. Other common scalp allergens implicated in scalp contact dermatitis include fragrances and preservatives that are typical ingredients of shampoos, conditioners and hairstyling products. In patients whom contact dermatitis is suspected, it is also important to ask about the type of brush that is being used since contact dermatitis associated with nickel, rubber or plastic may be the cause of the problem [26].

Red Scalp Syndrome

The red scalp syndrome is characterized by scalp erythema associated with papules, pustules and telangiectasias (Fig. 3). Patients complain of itching, stinging, and burning. The disorder is considered a variant of rosacea localized to the scalp, which is characteristically resistant to treatment with topical steroids and responds to oral tetracyclines. The red scalp may be associated with androgenetic alopecia [27].

Tinea Capitis

Tinea capitis may cause severe pruritus, erythema, and scaling; alopecia may or may not be present. A prominent inflammatory reaction is typical for kerion lesion and presence of cervical node enlargement suggests diagnosis. Family history, school contacts, history of contact with pets with skin lesions, and the presence of tinea in other body parts of the patient and its family may prompt consideration of this diagnosis [28].

The most important pathogen that causes tinea capitis in the United States is *Trichophyton tonsurans*. In Europe, Brazil, and Mexico, *Microsporum canis*, and in Africa, and Eastern Europe *Trichophyton violaceum* are also common [29–31].

Wood’s light may help to identify infection by *Microsporum audouinii* and *M. canis* by the presence of green fluorescence [32]. On dermoscopy, the combination of broken hairs, black dots, comma-shaped hairs and short corkscrew hairs are suggestive of tinea capitis [12]. KOH preparation may be performed; however, false negative results may occur in patients treated with topical or oral antifungals. For culture, the brushing technique is more effective than scraping. Fungal culture may be used for confirmation of diagnosis and species identification. Bi-
opsy with PAS stain may also be used to confirm the diagnosis [29].

Dermatomyositis

Dermatomyositis has been linked to pruritus in up to 94% of diagnosed patients [33]. Other scalp manifestations that may be present are erythema, atrophy, scales, and diffuse non-scarring alopecia [34] (Fig. 4). Acute telogen effluvium may also occur and may be diagnosed by history and a positive pull test. A significant decrease in the density of epidermal nerve fibers was found on confocal microscopic evaluation of a skin biopsy in a patient with dermatomyositis, scalp erythema, and scalp itch. This finding suggests that scalp pruritus in this disease may be caused by small fiber neuropathy [35]. Dermoscopic exam shows enlarged polymorphous interfollicular vessels that are very suggestive of the diagnosis [12] (Fig. 5). Other features that may be observed on physical exam include proximal muscle weakness, heliotrope rash, Gottron papules and Gottron sign, V-neck sign, shawl sign, periungual changes, mechanic hands, and photosensitivity [36].

Sensitive Scalp/Atopic Dermatitis

Sensitive scalp is a common condition, which may be related to other scalp diseases such as seborrheic dermatitis, psoriasis and contact dermatitis. In this condition, the scalp is prone to experiencing pruritus and paresthesias including pricking, burning, and tingling when exposed to physical, psychological or hormonal factors. An altered skin barrier has been described, but it has not been linked to a specific immune or allergic mechanism [37]. Diffuse erythema may or may not be present. Three tests that are useful to determine the presence of a sensitive scalp are the stinging, thermal sensitivity, and capsaicin tests [38]. Itch is present in 60% of patients with sensitive scalp. Hair loss has also been associated with scalp sensitivity [39].

The scalp is affected in 49.7% of the patients with atopic dermatitis, and scalp itching is one of the minor diagnostic criteria according to Hanifin and Rajka [40, 41]. Atopic dermatitis may present with erythema and xerosis clinically, and diagnosis may be confirmed by histopathology (Fig. 6).

Scalp Itch with Alopecic Patches

When assessing patients with alopecic patches who present with scalp itch, distinguishing between non-scarring and scarring alopecias is an important aspect of clinical evaluation. Non-scarring alopecias associated with scalp itch include alopecia areata and androgenetic alopecia. Patients with active alopecia areata often complain of...
| Table 1. Epidemiology, symptoms, clinical manifestations, dermoscopic findings, and histological features of the most common scarring alopecias associated with itch |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| **History**     | **Symptoms and itching** | **Clinical features** | **Dermoscopy** | **Histological features** |
| Lichen planopilaris (LPP) | Women > menPeak age between 30 and 60 years of age [79]Non-scalp lichen planus in 17–28% of patients with LPP [81] | Shedding/hair loss (100%), scale (80%), and scalp tenderness (72%) [82]Pruritus variable (54.34–90%) [79, 83, 84] | Whitish atrophic or scarring patches on the scalp with complete loss of follicular orifices [80] (Fig. 7) | Absence of follicular openings, peripilar casts, broken hairsVellus hairs are usually absent [12] (Fig. 8) | Lichenoid dermatitis at the dermoepidermal junction surrounding the follicular infundibulum and the isthmusA perivascular infiltrate may be minimal, superficial and usually perifollicularEpidermal and dermal mucin is usually absent [85] |
| Discoid lupus | Women > menYoung to middle age women (between 20 and 40 years) [81, 82] | Increased shedding (100%), pruritus (65%), and scalp tenderness (26.2%) [83] | Erythematos patches of alopecia, follicular hyperkeratosis, hyperpigmentation or loss of pigment and telangiectasias [81, 82] | Loss of follicular openings, white patches, peripilar casts, keratotic plugs, red dots, enlarged branching vessels [12] | Vacular interface alteration of the follicular epithelium with scattered dyskeratotic keratinocytes, cytid bodies, and a variable dense periannexal and interstitial lymphocytic infiltrate with dermal mucinSuperficial and deep perivasculitisSebaceous glands are atrophied or absent [82] |
| Central centrifugal cicatricial alopecia (CCCA) | Most common cause of permanent hair loss in African-AmericansMiddle-aged black females [85]May be inherited in an autosomal dominant pattern [93] | Symptoms may be trivial or absent: mild pruritus, pain, or tenderness may occur in involved areas [85]Positive correlation between CCCA severity score and peak itch ratings [94] | Flesh-colored, non-inflammatory cicatricial alopecia of the central scalp that enlarges centrifugally [82, 85]Irregularly distributed pinpoint white dots and irregular white patches and peripilar white-gray halo surrounding the hairs within the patches [12] | Premature inner root sheath desquamation is a characteristic but nonspecific findingActive disease: perifollicular lymphocytic infiltrate surrounds the upper follicle; concentric lamellar fibroplasia occurs around mid- and upper folliclesAdvanced disease: perifollicular granulomatous inflammation and presence of hair shaft foreign-body giant cellsEnd-stage disease: follicular fibrosis with retention of erector pili [82] |
mild itching or burning, which often precedes development of new patches. It may be caused by mast cell release of histamine and tryptase as well as lymphocytic infiltration with release of IL-31 [42]. Patients with androgenetic alopecia often complain of scalp itch and frequently have concomitant seborrheic dermatitis.

In active telogen effluvium, patients complain of trichodynia rather than scalp itch. In a study of 109 patients, 24 patients with androgenetic alopecia, 47 with telogen effluvium, 20 with both conditions, and 18 with telogen effluvium in remission it was concluded that trichodynia is almost exclusive of active telogen effluvium. Trichodynia was significantly more prevalent in the patients with telogen effluvium and those with both telogen effluvium and androgenetic alopecia (50.7%, \( p < 0.001 \)), compared to those who had only androgenetic alopecia without telogen effluvium or telogen effluvium in remission (4.8%) [43].

The most common types of scarring alopecia associated with itch are LPP, frontal fibrosing alopecia, discoid lupus erythematosus, and central cicatricial centrifugal alopecia. Alopecia mucinosa and keratosis follicularis spinulosa decalvans are rare causes.

Table 1 summarizes epidemiology, symptoms, clinical manifestations, dermoscopic findings, and histological features of the most common scarring alopecias associated with itch (Fig. 7, 8).

<table>
<thead>
<tr>
<th>History</th>
<th>Symptoms and itching</th>
<th>Clinical features</th>
<th>Dermoscopy</th>
<th>Histological features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folliculitis decalvans</td>
<td>Young adults of both genders</td>
<td>Pruritus 68%, trichodynia 30% [95]</td>
<td>Scarring alopecic patches with follicular pustules, crusts and tufted hairs [95]</td>
<td>Polytrichia, perifollicular erythema in a starburst pattern, yellowish tubular scaling, crusts and follicular pustules</td>
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<th>Urticarial Lesions</th>
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<tr>
<td>In patients with urticarial lesions, consider urticaria, contact urticaria, urticarial vasculitis, and insect bites.</td>
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<tr>
<td>In patients with urticaria, the presence of urticarial lesions on other parts of the body and characteristic histopathological findings may aid the diagnosis. Scalp urticaria usually does not present with the classic findings of erythema and edema, because of the scalp’s skin structure. Rather, patients complain of irritation, pruritus, stinging, or burning of the scalp [44, 45].</td>
</tr>
<tr>
<td>Contact urticaria occurs with interaction with an irritating/alergenic substance. It has been observed as an adverse effect of utilizing dinitrochlorobenzene (therapy for alopecia areata), ammonium persulfate (a component of peroxide hair bleach), bovine collagen (ingredient in hair conditioner), and henna (dye derived from plant) [46–50]. Contact urticaria with systemic symptoms has also been reported after application of hair conditioner containing bovine collagen [51]. It is therefore very important to ask about exposure to these substances when a patient presents with scalp itch. Awareness of the manifestations of contact urticaria is essential since it may result in more than local injury, with systemic anaphylaxis as a rare, though deadly, complication [52, 53].</td>
</tr>
<tr>
<td>The lesions of urticarial vasculitis with exclusive scalp location are extremely rare [54]. Papular urticaria is the urticarial reaction to an insect bite. It may be caused by</td>
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arthropods such as fleas, mosquitoes, and bed bugs. These insects may bite on any body part. The scalp is not the most common location; however, papular urticaria must be considered in the presence of pruritic, erythematous, 3- to 10-mm papules, wheals, and/or vesicles and a history of exposure to bugs.

**Infestations**

Some patients with scalp itch may present with infestations, with the most common being lice and scabies. Scabies usually spares the scalp in adults, but may be present in this location in children and immunocompromised patients [55].

Pediculosis is a common condition with a worldwide distribution [56, 57]. Patients usually refer intense pruritus of the scalp due to an allergic reaction to the saliva that the parasite produces. Scalp itch takes around 4–6 weeks to manifest if it is the first infestation [58]. In subsequent infections, pruritus may take 24–48 h to develop. Other features of pediculosis and scalp pruritus may include hyperkeratosis, secondary bacterial infection, and cervical lymphadenopathy.

Observing the live louse or nits on the scalp or hair shaft is diagnostic. Head lice can be differentiated from other causes of scalp itching like psoriasis or seborrheic dermatitis, as they usually are associated with yellowish greasy scales. Nits must be distinguished from hair cast (pseudonits). The latter slide easily along the hair shaft in contrast to nits, which are attached firmly to the hair shaft [59–61].

**Other Skin Lesions**

Other more specific lesions that may be diagnosed clinically or with a biopsy are: seborrheic keratosis, keloid scars, burns, eosinophilic, polymorphic, and pruritic eruption associated with radiotherapy (EPPER), and rarely, skin tumors.

Keloid scars and burn lesions cause peripheral neuropathic itch. They are included in this section for the purpose of clinical classification. Approximately 86% of patients with keloids have itch, which commonly affects the borders of keloid, and pruritus affects 76% of patients with burn lesions [62, 63].

EPPER is a rare entity, which may present in the scalp when radiation has been used in this area. It may present with excoriations, erythematous papules, wheals, and rarely with vesicles, pustules and bullae [64].

Although malignant skin tumors are usually asymptomatic, primary cutaneous follicle center lymphoma was reported in one case as the cause of itchy scalp presenting with infiltrative erythematous plaques [65]. In a study of patients with folliculotropic mycosis fungoides, 58% had head/neck involvement, 73% presented with pruritus and one patient had scalp involvement with the presence of red nodules and alopecia. In this article, they associated pruritus with the presence of a prominent eosinophilic infiltrate [66]. In another case report, a patient with leukemia cutis presented with an itchy erythematous plaque, which was first treated as contact dermatitis without improvement and then achieved complete resolution of the lesion with primary radiation therapy [67].
Scalp Itch Associated with Systemic Disease

It is important to exclude systemic causes of scalp itch in patients without obvious dermatological lesions, in cases of secondary lesions that result from rubbing or scratching, such as lichen simplex chronicus, or in cases of lesions associated with systemic disease such as urticarial lesions and vascular or infiltrated plaques (Fig. 9). Several clinical manifestations and dermoscopic patterns, in an apparently normal scalp can lead us to suspect systemic pathologies. Table 2 lists systemic diseases that present with itch not limited to the scalp.

Autoimmune diseases that have been linked with scalp itch are dermatomyositis, systemic lupus erythematosus, scleroderma and Sjögren syndrome. Itch may or may not be associated with skin lesions. If present on dermoscopy, erythema and enlarged interfollicular vessels may aid the diagnosis.

Sarcoidosis may present diffusely with itching folliculitis-like lesions, which may be misdiagnosed as seborrheic dermatitis or as infiltrated asymptomatic plaques. Trichoscopic findings may vary depending on clinical presentation, but presence of yellow-orange spots is characteristic [68, 69].

Table 2. Systemic conditions that present with itching that is not limited to the scalp

<table>
<thead>
<tr>
<th>Category</th>
<th>Conditions</th>
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<tbody>
<tr>
<td>Metabolic diseases</td>
<td>Chronic renal disease, Type 2 diabetes mellitus, Hyper-/hypothyroidism, Carcinoid syndrome, Abnormal parathyroid activity</td>
</tr>
<tr>
<td>Hepatobiliary causes</td>
<td>Biliary cirrhosis, Chronic pancreatitis, Drug-induced cholestasis, Hepatitis, Sclerosing cholestasis, Cholestasis of pregnancy, Amyloidosis with hepatic infiltration</td>
</tr>
<tr>
<td>Paraneoplastic</td>
<td>Hodgkin’s lymphoma, Mycoses fungoides, Chronic leukemia, myelomatosis, lymphosarcoma</td>
</tr>
<tr>
<td>Hematological</td>
<td>Iron deficiency, Polycythemia vera, Hemochromatosis, Mastocytosis</td>
</tr>
<tr>
<td>Infectious</td>
<td>HIV, Hepatitis C virus infection</td>
</tr>
<tr>
<td>Other</td>
<td>Pharmacological, Pregnancy</td>
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Scalp Itch without Skin Lesions

Neuropathic Itch

Neuropathic itch is caused by an abnormality in the afferent pathway of the nervous system. It can be central or peripheral. Some skin lesions may also cause this type of itch. Neurological causes of pruritus should be suspected if a patient has sensory symptoms like paresthesia, hypoesthesia and hyperalgesia in the same area and there is no dermatological or systemic cause. In patients with neuropathic pruritus, a full neurological exam is required to test cranial nerve functions and sensations of temperature, touch, and pain. Consultation by a neurologist, EMG, and a nerve conduction study may be required. Also, an MRI may be needed if a brain tumor is suspected [70, 71].
Postherpetic itch is the prototype of peripheral neuropathic itch. Its incidence is underestimated by physicians and is often misdiagnosed as postherpetic neuralgia even though it is common, affecting at least one-third of the patients with herpes zoster. Although it was reported that herpes zoster involving the face and head more commonly have itch, a new multicentric study shows no difference in the severity of itch between different parts of the body affected with herpes zoster. Also, this study shows that the severity of pruritus is related to the severity of neuralgia.

Diabetic patients usually have peripheral neuropathic itch, which can affect many sites such as the scalp. However, such scalp itch is relieved when the glucose level is controlled. Keloid and burn scars are other examples of diagnoses associated with peripheral neuropathic itch, but they present with the characteristic skin lesions. Central causes of neuropathic itch are less frequent than peripheral causes. These include brain tumors, abscesses, strokes, and spinal cord tumor.

**Psychogenic Pruritus**

The most difficult part of the assessment of pruritus of the scalp is when a dermatologist does not find any dermatological, systemic, or neurological cause of such complaint. It generally takes several visits to a clinic to determine the cause of pruritus. During this time, the dermatologist must establish a trusting relationship with the patient and should be able to obtain a detailed social history, with questions about the patient’s support system, occupation, stressors, and significant life events. In addition, the patient may have a personal or family history of psychiatric complaints or illness. Other parts of the patient’s history that may be important include sleep and exercise habits, illicit drug use, and medications taken for mood concerns. This information will help the doctor clarify if there is a psychogenic cause of the pruritus as the itch intensity may vary depending on factors such as stress, illicit drug use, or compulsive behaviors.

Psychiatric consultation is suggested to confirm the diagnosis of psychogenic itch. Notably, when comparing between males and females, psychogenic itch is more prevalent in women, particularly between the age of 35 and 45 years. The patient with psychogenic pruritus normally presents with a healthy scalp or with secondary lesions such as scratch marks and excoriations, without a primary lesion. It is worth mentioning that psychogenic causes may exist along with the dermatological or systemic causes of pruritus and this can make the itch worse. Additionally, chronic pruritus, which does not respond to treatment can cause depression and affect the quality of life of the patient.

In patients with psychiatric illness, scalp itching is common. A retrospective study involving patients with chronic pruritus shows that itching of the patient’s face and scalp occurs more often with psychiatric rather than the non-psychiatric patient. The frequency of scalp and face itching is 16.7% in psychiatric patients, in comparison to 10.1% in non-psychiatric patients.

There are several psychogenic causes of pruritus. This includes, but is not limited to, anxiety, depression, obsessive compulsive disorders, schizophrenia, delusion of parasitosis, tactile hallucinations, and somatoform disorders. Stress can cause itching of the scalp, and that is why it is common to see people scratching their scalps when they are in a difficult situation. A community-based study involving 316 patients, assessed the relationship between stressful life events and skin symptoms. Pruritus was found to be the most reported symptom (69.3%) with the scalp being the most affected area in the body (59.5%).

**Conclusion**

Itch is a common complaint in the dermatological setting. A dermatologist must use an algorithmic approach to investigate the possible cause of scalp pruritus. Also, it is important to think first about the most common causes and then rule out other, less common etiologies. The acronym SCALLP and the five steps for scalp evaluation are useful tools to keep in mind for an assertive approach in these patients.

**Statement of Ethics**

Verbal photographic and informed consent was obtained from the patients described in this article.

**Disclosure Statement**

Dr. Antonella Tosti serves in the following roles to the following organizations and/or companies. Consultant: P&G, DS Laboratories, and Fotofinder; Principal Investigator: Incyte; author royalties: Springer and Taylor & Francis; Editor-in-Chief: Karger Publishers; Scientific Board: National Alopecia Areata Foundation. All other authors have no conflicts of interest to disclose. This article has no funding source.
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